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Georgia Power

2023 Annual Groundwater Monitoring and Corrective Action Report

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

January 31, 2024

2023 Annual Groundwater Monitoring and Corrective Action Report

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

January 31, 2024

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Summary

This summary of the 2023 Annual Monitoring and Corrective Action Report provides the status of the groundwater monitoring and corrective action program from January through December 2023 at Georgia Power Company's (Georgia Power's) Plant Yates Ash Ponds (AP) AP-3, A, B, B', and the R6 Landfill (the site). This summary was prepared by Arcadis U.S., Inc. (Arcadis) on behalf of Georgia Power to meet the requirements listed in Part A, Section 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 2023 reporting period, the site remained in assessment monitoring following the August 31, 2022 submittal of the Draft Remedy Selection Report to GAEPD.

During the 2023 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 2023	August 2023
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
Sulfate	YGWC-38, YGWC-42, YGWC-43	YGWC-38, YGWC-42
Total Dissolved Solids	YGWC-38, YGWC-41, YGWC-42, YGWC-43	YGWC-38, YGWC-41, YGWC-42, YGWC-43
Appendix IV Parameter	**February 2023**	**August 2023**
Cobalt	--	YAMW-3
Selenium	PZ-37, YGWC-38	PZ-37, YGWC-38

The selenium SSLs at wells YGWC-38 and PZ-37 are horizontally delineated by downgradient wells YGWC-23S and YGWC-36A, respectively. YGWC-38 and PZ-37 are vertically delineated by PZ-52D. A delineation well northwest of YAMW-3 was installed December 16, 2023 for horizontal delineation of the cobalt SSL. Installation of a vertical delineation well near YAMW-3 is underway. These wells will be sampled during the February 2024 sampling event.

Based on review of the Appendix III and Appendix IV statistical results for the groundwater monitoring and corrective action program from January through December 2023, the site will continue in assessment monitoring. A Draft Remedy Selection Report, which summarizes the evaluation and proposed selection of a corrective measure, or measures, was submitted to GAEPD on August 31, 2022 (Arcadis 2022). GAEPD provided comments on the Draft Remedy Selection Report on February 14, 2023. The contingency remedy bench-scale treatability testing has been completed and demonstrated that selenium can be successfully removed from groundwater using zero valent iron (ZVI). Further evaluation of SSLs at YAMW-3 will be in incorporated into an updated Draft Remedy Selection Report to GAEPD in 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.

Contents

Tables

Figures

Appendices

Tables

Figures

Appendices

Acronyms and Abbreviations

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

Professional Certification

This 2023 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.

1.31.24

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Date

1 Introduction

This 2023 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 2023. This report was prepared in accordance with the United States Environmental Protection Agency (USEPA) Coal Combustion Residuals (CCR) Rule (40 Code of Federal Regulations [CFR] 257 Subpart D) and the Georgia Environmental Protection Division (GAEPD) Rules for Solid Waste Management 391-3-4-.10. Groundwater monitoring requirements for the site are specified by GAEPD Rule 391-3-4-.10(6)(a), which also incorporates the USEPA CCR Rule. For ease of reference, the USEPA CCR Rule is cited within this report.

This report presents the results of February and August 2023 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 2023 in accordance with Rule 391-3-4-.10(6)(c).

1.1 Background

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

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

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

This 2023 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 detection monitoring well network is summarized in **Table 1A**. Additionally, a series of piezometers and assessment wells is installed to supplement characterization and groundwater elevation measurements (**Table 1B**).

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

2 Groundwater Monitoring

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

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

2.1 Monitoring Well Installation and Maintenance

During this reporting period, a horizontal delineation well was installed on December 16, 2023 northwest of YAMW-3 (PZ-55) and south of YGWC-43. The well was screened from 55 to 65 feet below ground surface. Well development, and a horizontal and vertical survey are planned for January 2024. A vertical delineation well in the vicinity of YAMW-3 is also in the process of installation in January 2024 and not complete as of the time of this report submittal. Well installation reports will be submitted under separate covers to EPD and included in the next semiannual report.

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 2023 pursuant to 40 CFR § 257.95(b) and CFR § 257.95(d). Groundwater sampling activities completed during the reporting period as part of semiannual assessment monitoring are summarized in **Table 2**. Downgradient monitoring well YGWC-50 was sampled for the first time in August 2023. Georgia Power will collect quarterly samples from this well to establish a background statistical dataset; the second quarterly sample was collected in on December 20, 2023; the data will be included in the next semiannual report.

2.3 Additional Groundwater Evaluations

Supplemental groundwater samples were collected from the detection and assessment well networks during the February 2023 event and were analyzed for major cations (calcium, magnesium, potassium, and sodium), major

anions (chloride, sulfate, and alkalinity [i.e., bicarbonate, carbonate, total]), iron, and manganese. The data were collected in support of evaluating the geochemical composition of the groundwater in conjunction with the ACM activities. The laboratory reports associated with the data are provided in **Appendix B**. Sampling and analysis were performed following the procedures outlined in Section 3.

2.4 Assessment of Corrective Measures

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

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

To address the SSL of cobalt and potential future SSL for lithium at YAMW-3, horizontal delineation well PZ-55 was installed in December 2023 northwest of YAMW-3 (**Figure 3**). Georgia Power is in the process of installing a vertical delineation well near YAMW-3 (PZ-54D).

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 C**. 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 2023 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 2023 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 2023 are presented in **Table 4**. The calculated average linear flow velocity for February and August 2023 is 26 feet per year. The calculated groundwater velocity across the site is generally consistent with historical calculations and with expected velocities in the site-specific geology, thereby, confirming the groundwater monitoring network is properly located to monitor the uppermost aquifer.

3.2 Groundwater Sampling

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

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

- ± 0.1 standard unit for pH;
- ± 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 2023 sampling event, the AP-3, B, B' and R6 CCR Landfill wells were sampled and analyzed for Appendix III parameters as well as for Appendix IV parameters according to 40 CFR § 257.95(b). **Table 5** provides a summary of the constituents monitored during the event. The methods used for groundwater sample analyses are listed in the analytical laboratory reports included in **Appendix B**.

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

3.4 Data Quality Assurance/Quality Control and Validation

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

The purpose of the data quality evaluation was to determine the reliability of the chemical analyses and the accuracy and precision of information acquired from the laboratory. Data quality was assessed through the review and evaluation of field sampling, quality control samples, and data associated with the chemical analytical results. The validated data meet project objectives and the associated data validation reports are provided in **Appendix B** along with the laboratory reports.

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

4 Statistical Analysis

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

4.1 Statistical Methods

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

4.1.1 Appendix III Statistical Methods

Groundwater data were evaluated using interwell prediction limits for Appendix III parameters. This method uses sitewide-pooled upgradient monitoring well data to establish a background statistical limit. Data from the February and August 2023 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 1A for Appendix IV constituents with a target of 95 percent confidence and 95 percent coverage. When data contained greater than 50 percent non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits are were used.

The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples. The background levels are then used when determining the groundwater protection standards (GWPS) in accordance with 40 CFR § 257.95(h) and GAEPD Rule 391-3-4-.10(6)(a). 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 2023 sampling events as well as the GWPS.

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

4.2 Statistical Analysis Results

Appendix III statistical analysis for wells associated with the site was performed to determine whether constituent concentrations have returned to background levels. Appendix IV assessment monitoring parameters were evaluated for AP-3, A, B, B,' and the R6 CCR Landfill to determine whether concentrations statistically exceed the established GWPSs. Appendix IV analytical data from the February and August 2023 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 2023 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 and August 2023 Appendix IV data was completed using the GWPSs established according to 40 CFR § 257.95(h) and GAEPD Rule 391-3-4-.10(6)(a). The following SSLs were identified:

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

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

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

- Decreasing trends: Selenium: YGWC-38 (February, August)

There are no downgradient wells with SSLs that exhibit an increasing trend. Sanitas™ statistical output data for calculation of site-specific background concentrations (interwell tolerance limits) and confidence intervals for each Appendix IV constituent in downgradient wells are provided in **Appendix D**. Isoconcentration maps from February (Selenium) and August 2023 (Selenium, Cobalt) 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

Horizontal and vertical delineation of current and historical SSLs of beryllium and selenium is complete on site. Cobalt exhibited an SSL at YAMW-3 based on data from the Augusta 2023 sampling event. Horizontal and vertical delineation of cobalt was initiated in December 2023 and is currently ongoing as mentioned in **Section 2.1**. A Draft Remedy Selection Report was submitted to GAEPD on August 31, 2022 and included the following:

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

The Draft Remedy Selection Report proposed Monitored Natural Attenuation (MNA) as the selected remedy. EPD provided comments on the proposed remedy selection on February 14, 2023.

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

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

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

Arcadis collected groundwater from PZ-37 on March 30, 2023 for the treatability study that was conducted at the Arcadis Treatability Laboratory in Durham, North Carolina. This groundwater, along with partially weathered rock samples from PZ-37D obtained from Georgia Power's core archive, was used to evaluate the efficacy of various zero-valent iron (ZVI) formulations as well as a ferrous iron reagent. The results were submitted to GAEPD on October 31, 2023 demonstrating that selenium can be successfully removed from groundwater using zero valent iron (ZVI).

Additional bench-scale testing has been proposed to GAEPD on December 15, 2023 to evaluate the treatment of cobalt as well as lithium which Georgia Power anticipates may also become and SSL in the future. It is anticipated that the treatability testing will be complete in the first quarter of 2024, followed by evaluation of additional horizontal and vertical delineation data, with an updated remedy selection report submission with findings and recommendations for these parameters in the third quarter of 2024. In a letter from GAEPD dated December 20, 2023, GAEPD concurred with including cobalt and lithium into a revised Draft Remedy Selection Report as a proactive measure. A milestone schedule will be submitted to GAEPD within 45 days of said approval.

6 Conclusions and Recommendations

This 2023 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 in February and August 2023. An SSL of cobalt was identified at well YAMW-3 in August 2023. Delineation data for the selenium SSLs provide spatial and vertical delineation to concentrations below the GWPSs. Downgradient horizontal delineation well PZ-55, installed in December 2023, will be sampled during the February 2024 sampling event. Vertical delineation is currently ongoing.

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 2024. 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

ACC. 2019. Plant Yates, Ash Ponds 3, A, B and B' – 2019 Assessment of Corrective Measures Report. Prepared for Georgia Environmental Protection Division. June.

ACC 2021. Plant Yates, Ash Ponds 3, A, B, and B'/R6 CCR Landfill – Hydrogeologic Assessment Report (rev. 1). Prepared for Georgia Environmental Protection Division. May.

Arcadis 2022. Plant Yates, Ash Ponds 3, A, B, and B'/R6 CCR Landfill – Groundwater Remedy Selection Report. August.

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

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

Groundwater Stats Consulting. 2019. Statistical Analysis Plan – Plant Yates Ash Pond 3 and B/B'. Prepared for Georgia Environmental Protection Division.

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

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

USEPA. 1989. RCRA Facility Investigation (RFI) Guidance, Interim Final, Vol I. [EPA 530/SW-89-031], OWSER Directive 9502.00-6DUSEPA. 1989. Risk Assessment Guidance for Superfund (RAGS), Vol. I: Human Health Evaluation Manual (Part A) (540-1-89-002).

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

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

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

Tables

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

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

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

Acronyms and Abbreviations:
bTOC = below top of casing
ft = feet

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

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

Notes:

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

Acronyms and Abbreviations:

bTOC = below top of casing
ft = feet

Table 2
Groundwater Sampling Plan
2023 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 8 - 10, 2023	Semiannual Monitoring [1] August 15 - 18, 2023
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 [3]	Downgradient		X

Notes:

1. All wells analyzed for Appendix III and Appendix IV.
2. Wells from other units comprising sitewide pooled upgradient network.
3. YGWC-50 was also sampled in December 2023 as part of a background quarterly sampling regime.

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

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

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

Table 3
Summary of Groundwater Elevations - February and August 2023
2023 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 2023				
YGWC-23S	8/14/2023	764.95	16.81	748.14
YGWC-24SB	8/14/2023	765.00	27.34	737.66
YGWC-36A	8/14/2023	740.88	10.87	730.01
YGWC-38	8/14/2023	799.69	29.68	770.01
YGWC-41	8/14/2023	803.92	28.30	775.62
YGWC-42	8/14/2023	797.86	28.80	769.06
YGWC-43	8/14/2023	744.96	24.28	720.68
YGWC-49	8/14/2023	782.73	32.40	750.33
YGWC-50	8/14/2023	729.78	15.24	714.54
PZ-35	8/14/2023	743.81	11.78	732.03
PZ-04S	8/14/2023	784.25	25.67	758.58
PZ-05S	8/14/2023	784.64	20.59	764.05
YGWA-6S	8/14/2023	782.47	20.78	761.69
YGWA-6I	8/14/2023	782.73	21.07	761.66
PZ-06D	8/14/2023	782.02	23.62	758.40
PZ-24IB	8/14/2023	764.33	27.81	736.52
PZ-37	8/14/2023	760.78	10.99	749.79
PZ-37D	8/14/2023	761.12	3.36	757.76
PZ-48	8/14/2023	799.83	21.84	777.99
PZ-51	8/14/2023	744.30	9.52	734.78
PZ-52D	8/14/2023	762.79	6.15	756.64
PZ-53D	8/14/2023	762.80	4.98	757.82
YAMW-1	8/14/2023	743.83	11.61	732.22
YAMW-2	8/14/2023	781.04	23.70	757.34
YAMW-3	8/14/2023	796.05	36.69	759.36
YAMW-4	8/14/2023	805.59	32.09	773.50
YAMW-5	8/14/2023	788.90	23.70	765.20
Upgradient Wells - August 2023				
YGWA-4I	8/14/2023	784.21	24.27	759.94
YGWA-5I	8/14/2023	784.54	20.58	763.96
YGWA-5D	8/14/2023	784.53	20.89	763.64
YGWA-17S	8/14/2023	783.05	14.38	768.67
YGWA-18S	8/14/2023	790.57	21.97	768.60
YGWA-18I	8/14/2023	790.57	24.90	765.67
YGWA-20S	8/14/2023	767.12	11.54	755.58
YGWA-21I	8/14/2023	783.70	31.80	751.90
YGWA-39	8/14/2023	818.19	17.61	800.58
YGWA-40	8/14/2023	815.73	23.70	792.03
YGWA-1I	8/14/2023	836.60	37.23	799.37
YGWA-1D	8/14/2023	837.25	49.55	787.7
YGWA-2I	8/14/2023	866.25	44.76	821.49
YGWA-3I	8/14/2023	796.55	53.07	743.48
YGWA-3D	8/14/2023	796.78	31.49	765.29
YGWA-14S	8/14/2023	748.76	18.53	730.23
YGWA-30I	8/14/2023	762.58	42.42	720.16
YGWA-47	8/14/2023	758.22	33.81	724.41
GWA-2	8/14/2023	805.62	36.83	768.79

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

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-24B	1,002	feet	
YGWC-6S to PZ-35	1,002	feet	
Groundwater Elevation			Date Collected:
YGWA-40	792.71	feet	February 2023
YGWC-42	768.32		
YGWC-49	749.41		
PZ-24IB	736.44		
Groundwater Elevation			Date Collected:
YGWA-40	792.03	feet	August 2023
YGWC-42	769.06		
YGWC-49	750.33		
PZ-24IB	736.52		
			Hydraulic gradient from:
i_1 = 0.022		unitless	YGWA-40 to YGWC-42 (Feb. 2023)
i_2 = 0.013		unitless	YGWC-49 to PZ-24I (Feb. 2023)
i_{avg} = 0.017		unitless	Average
			Hydraulic gradient from:
i_1 = 0.021		unitless	YGWA-40 to YGWC-42 (Aug. 2023)
i_2 = 0.014		unitless	YGWC-49 to PZ-24I (Aug. 2023)
i_{avg} = 0.017		unitless	Average
n_e = 0.20		unitless	See note 2

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

Minimum Linear Flow Velocity	Maximum Linear Flow Velocity
February 2023	*February 2023*
$V_{min} = \frac{(0.28)\ (0.017)}{0.20}$	$V_{max} = \frac{(10)\ (0.017)}{0.20}$
V_{min} = 0.02 ft/day, or 7.3 ft/year	V_{max} = 0.9 ft/day, or 310 ft/year
Minimum Linear Flow Velocity	Maximum Linear Flow Velocity
August 2023	*August 2023*
$V_{min} = \frac{(0.28)\ (0.017)}{0.20}$	$V_{max} = \frac{(10)\ (0.017)}{0.20}$
V_{min} = 0.02 ft/day, or 7.3 ft/year	V_{max} = 0.9 ft/day, or 310 ft/year

Average Linear Flow Velocity	
February 2023	*August 2023*
$V_{avg} = \frac{(0.8)(0.017)}{0.20}$	$V_{avg} = \frac{(0.8)(0.017)}{0.20}$
V_{avg} = 0.07 ft/day, or 26 ft/year	V_{avg} = 0.07 ft/day, or 26 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
2023 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 2023
2023 Annual Groundwater Monitoring and Corrective Action Report
Plant Yates - A-3, A, B, B' and R6 CCR Landfill

Analyte		Units	PZ-35 2/9/2023	PZ-35 8/16/2023	PZ-37 2/8/2023	PZ-37 8/17/2023	PZ-37D 2/8/2023	PZ-37D 8/16/2023	PZ-51 2/9/2023	PZ-51 8/16/2023	PZ-52D 2/8/2023	PZ-52D 8/17/2023	YAMW-1 2/9/2023	YAMW-1 8/16/2023
Appendix III	pH	SU	5.50	5.34	5.15	5.13	7.95	8.05	5.14	4.68	6.12	5.6	5.73	5.8
	Boron	mg/l	0.076	0.13	8.2	9.5	0.70	0.75	6.9	7.1	1.2	1.9	0.63	0.55
	Calcium	mg/l	14.5	21.5	95.9	101	55.2	67.5	54.3	52.0	22.9	22.1	31.7	28.7
	Chloride	mg/l	5.4	4.9	3.8	4.1	33.5	14.8	4.7	4.1	2.0	1.8	5.4	4.9
	Fluoride	mg/l	< 0.050	< 0.050	< 0.050	< 0.050	0.20	0.23	0.13	0.097 J	0.070 J	0.059 J	< 0.050	< 0.050
	Sulfate	mg/l	84.6	107	449	459	177	210	370	309	279	289	209	151
	Total Dissolved Solids	mg/l	196	256	822	938	477	505	582	612	542	600	347	363
Appendix IV	Antimony	mg/l	< 0.00078	< 0.0012	< 0.00078	< 0.0012	0.0015 J	< 0.0012	< 0.00078	< 0.0012	< 0.00078	< 0.0012	< 0.00078	< 0.0012
	Arsenic	mg/l	0.0028 J	< 0.0037	< 0.0022	< 0.0037	< 0.0022	< 0.0037	< 0.0022	< 0.0037	0.0032 J	< 0.0037	0.0034 J	< 0.0037
	Barium	mg/l	0.13	0.18	0.022	0.023	0.018	0.021	0.015	0.014	0.012	0.011	0.078	0.092
	Beryllium	mg/l	0.00080	0.0011	0.0011	0.0012	< 0.000054	< 0.000054	0.0024	0.0028	< 0.000054	0.000086 J	0.00012 J	0.00028 J
	Cadmium	mg/l	0.00025 J	0.00020 J	0.00076	0.00085	< 0.00011	< 0.00011	0.0018	0.0017	< 0.00011	< 0.00011	< 0.00011	0.00021 J
	Chromium	mg/l	0.0016 J	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
	Cobalt	mg/l	< 0.00039	< 0.00039	0.0022 J	0.0027 J	< 0.00039	< 0.00039	0.0071	0.0056	0.0026 J	0.0031 J	0.0045 J	0.0027 J
	Lead	mg/l	< 0.00089	< 0.00012	< 0.00089	< 0.00012	< 0.00089	< 0.00012	< 0.00089	< 0.00012	< 0.00089	0.0014	< 0.00089	< 0.00012
	Lithium	mg/l	0.0026 J	0.0026 J	0.013 J	0.016 J	0.0088 J	0.0095 J	0.0045 J	0.0048 J	0.025 J	0.029 J	0.019 J	0.016 J
	Mercury	mg/l	< 0.00013	< 0.00012	< 0.00013	< 0.00012	< 0.00013	< 0.00012	< 0.00013	< 0.00013	< 0.00013	< 0.00012	< 0.00013	< 0.00012
	Molybdenum	mg/l	< 0.00074	< 0.00074	< 0.00074	< 0.00074	0.0024 J	0.0040 J	< 0.00074	< 0.00074	0.0050 J	0.0030 J	< 0.00074	< 0.00074
	Combined Radium - 226/228	pCi/l	0.718 U	1.56 U	0.742 U	1.90	2.37	2.05	0.467 U	1.26 U	0.218 U	1.88	0.595 U	1.01 U
	Selenium	mg/l	0.0041 J	0.0039 J	0.16	0.15	< 0.0014	< 0.0014	0.028	0.024	0.0057	0.011	0.0051	0.0046 J
	Thallium	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018

Notes:
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
< = 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 2023
2023 Annual Groundwater Monitoring and Corrective Action Report
Plant Yates - A-3, A, B, B' and R6 CCR Landfill

Analyte		Units	YAMW-2 2/8/2023	YAMW-2 8/17/2023	YAMW-3 2/9/2023	YAMW-3 8/16/2023	YAMW-4 2/8/2023	YAMW-4 8/16/2023	YAMW-5 2/8/2023	YAMW-5 8/16/2023	YGWA-17S 2/7/2023	YGWA-17S 8/15/2023	YGWA-18I 2/7/2023	YGWA-18I 8/15/2023
Appendix III	pH	SU	5.95	4.77	5.89	5.92	6.19	5.94	5.67	5.41	5.47	5.54	6.00	5.82
	Boron	mg/l	0.031 J	0.040	8.1	5.0	3.0	3.2	6.5	6.4	0.014 J	< 0.043	< 0.0086	< 0.043
	Calcium	mg/l	1.2	1.4	33.0	21.4	12.0	11.9	52.3	51.0	2.9	2.9	5.5	5.1
	Chloride	mg/l	2.5	2.7	9.6	2.2	1.5	1.4	3.8	3.6	11.4	11.6	7.4	7.3
	Fluoride	mg/l	0.061 J	< 0.050	0.079 J	0.081 J	0.079 J	< 0.050	0.050 J	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
	Sulfate	mg/l	6.7	6.6	419	240	192	177	368	343	4.9	4.6	0.78 J	0.51 J
	Total Dissolved Solids	mg/l	190	55.0	727	587	402	416	660	716	78.0	74.0	96.0	96.0
Appendix IV	Antimony	mg/l	< 0.00078	< 0.0012	< 0.00078	< 0.0012	< 0.00078	< 0.0012	< 0.00078	< 0.0012	0.0013 J	< 0.0012	< 0.00078	< 0.0012
	Arsenic	mg/l	< 0.0022	< 0.0037	< 0.0022	< 0.0037	0.0037 J	< 0.0037	0.0038 J	< 0.0037	< 0.0022	< 0.0037	< 0.0022	< 0.0037
	Barium	mg/l	0.0064	0.0092	0.045	0.026	0.0030 J	0.0031 J	0.039	0.036	0.017	0.016	0.019	0.020
	Beryllium	mg/l	0.000055 J	0.000069 J	0.000062 J	0.00017 J	< 0.000054	< 0.000054	0.00013 J	0.00011 J	0.000096 J	< 0.00027	< 0.000054	< 0.00027
	Cadmium	mg/l	< 0.00011	< 0.00011	< 0.00011	0.00048 J	< 0.00011	< 0.00011	0.00046 J	0.00022 J	< 0.00011	< 0.00011	< 0.00011	< 0.00011
	Chromium	mg/l	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
	Cobalt	mg/l	< 0.00039	0.0053	0.066	0.14	0.00085 J	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039
	Lead	mg/l	< 0.00089	< 0.00012	< 0.00089	< 0.00012	< 0.00089	< 0.00012	< 0.00089	< 0.00012	< 0.00089	< 0.00012	< 0.00089	< 0.00012
	Lithium	mg/l	< 0.00073	< 0.00073	0.048	0.040	0.033	0.033	0.014 J	0.014 J	< 0.00073	< 0.0036	0.0030 J	< 0.0036
	Mercury	mg/l	< 0.00013	< 0.00012	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	0.00018 J	< 0.00013	0.00013 J	0.00014 J
	Molybdenum	mg/l	< 0.00074	< 0.00074	0.0067 J	0.0084 J	0.0076 J	0.0074 J	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074
	Combined Radium - 226/228	pCi/l	0.0994 U	1.24 U	2.19	2.77	0.239 U	1.04 U	0.502 U	1.17 U	0.367 U	1.23 U	0.485 U	1.11 U
	Selenium	mg/l	< 0.0014	< 0.0014	< 0.0014	0.0075	0.017	0.019	0.052	0.054	< 0.0014	< 0.0014	< 0.0014	< 0.0014
	Thallium	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018

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

Analyte		Units	YGWA-18S 2/7/2023	YGWA-18S 8/15/2023	YGWA-20S 2/7/2023	YGWA-20S 8/15/2023	YGWA-21I 2/7/2023	YGWA-21I 8/15/2023	YGWA-39 2/7/2023	YGWA-39 8/15/2023	YGWA-40 2/8/2023	YGWA-40 8/15/2023	YGWA-4I 2/9/2023	YGWA-4I 8/15/2023
Appendix III	pH	SU	5.03	5.2	5.63	7.00	6.82	6.84	5.49	5.78	5.71	5.00	6.23	5.99
	Boron	mg/l	< 0.0086	< 0.0086	< 0.0086	< 0.043	< 0.0086	0.046 J	0.13	0.15 J	0.057	0.052 J	< 0.0086	< 0.0086
	Calcium	mg/l	0.79 J	0.80 J	2.4	2.2	7.5	6.1	16.1	17.2	5.9	5.3	9.6	7.8
	Chloride	mg/l	6.4	6.7	2.9	2.8	2.4	2.3	5.6	4.5	6.9	5.6	4.5	4.4
	Fluoride	mg/l	< 0.050	< 0.050	< 0.050	< 0.050	0.10	0.061 J	0.076 J	< 0.050	< 0.050	< 0.050	0.067 J	< 0.050
	Sulfate	mg/l	1.2	0.88 J	< 0.50	< 0.50	3.8	4.1	9.7	7.6	17.5	16.4	8.9	7.5
	Total Dissolved Solids	mg/l	55.0	81.0	89.0	62.0	163	126	224	225	115	83.0	124	99.0
Appendix IV	Antimony	mg/l	< 0.00078	< 0.0012	< 0.00078	< 0.0012	< 0.00078	< 0.0012	< 0.00078	< 0.0012	< 0.00078	< 0.0012	< 0.00078	< 0.0012
	Arsenic	mg/l	< 0.0022	< 0.0037	< 0.0022	< 0.0037	0.0028 J	< 0.0037	0.0029 J	< 0.0037	< 0.0022	< 0.0037	< 0.0022	< 0.0037
	Barium	mg/l	0.012	0.012	0.014	0.012	0.010	0.0075	0.030	0.031	0.037	0.034	0.014	0.011
	Beryllium	mg/l	0.000071 J	0.000057 J	0.000074 J	< 0.00027	< 0.000054	< 0.00027	< 0.000054	< 0.00027	0.00026 J	< 0.00027	< 0.000054	< 0.000054
	Cadmium	mg/l	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.00012 J	< 0.00011	0.00014 J	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011
	Chromium	mg/l	0.0016 J	0.0013 J	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
	Cobalt	mg/l	< 0.00039	< 0.00039	< 0.00039	< 0.00039	0.014	0.011	0.00066 J	0.00072 J	< 0.00039	< 0.00039	< 0.00039	< 0.00039
	Lead	mg/l	< 0.00089	< 0.00012	< 0.00089	< 0.00012	< 0.00089	< 0.00012	< 0.00089	< 0.00012	< 0.00089	< 0.00012	< 0.00089	< 0.00012
	Lithium	mg/l	0.0012 J	0.00077 J	< 0.00073	< 0.0036	0.0059 J	0.0062 J	0.0065 J	0.0064 J	0.00074 J	< 0.0036	0.014 J	0.0083 J
	Mercury	mg/l	0.00017 J	0.00015 J	0.00015 J	< 0.00013	0.00017 J	< 0.00013	< 0.00013	< 0.00013	< 0.00013	0.00037	< 0.00013	0.00013 J
	Molybdenum	mg/l	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	0.0045 J	0.0061 J	< 0.00074	< 0.00074	< 0.00074	< 0.00074
	Combined Radium - 226/228	pCi/l	0.656 U	1.04 U	0.794 U	1.29 U	1.53	1.68	1.41	1.17 U	1.56	1.18 U	1.12	1.14
	Selenium	mg/l	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014
	Thallium	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018

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Table 6a
Groundwater Analytical Data - February and August 2023
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Plant Yates - A-3, A, B, B' and R6 CCR Landfill

Analyte		Units	YGWA-5D 2/7/2023	YGWA-5D 8/15/2023	YGWA-5I 2/9/2023	YGWA-5I 8/15/2023	YGWC-23S 2/8/2023	YGWC-23S 8/16/2023	YGWC-24S 2/10/2023	YGWC-24SB 8/16/2023	YGWC-36A 2/9/2023	YGWC-36A 8/16/2023	YGWC-38 2/8/2023	YGWC-38 8/16/2023
Appendix III	pH	SU	6.64	7.34	5.90	5.58	5.33	5.36	5.67	5.89	5.67	5.36	5.16	4.83
	Boron	mg/l	< 0.0086	< 0.043	< 0.0086	< 0.043	1.6	1.2	< 0.0086	< 0.0086	0.028 J	0.058	4.1	3.7
	Calcium	mg/l	26.6	25.0	2.8	2.6	10.9	11.2	2.4	2.2	9.2	20.0	55.3	50.9
	Chloride	mg/l	3.3	3.1	5.0	4.1	2.0	2.7	9.1	8.1	5.9	4.9	3.9	3.7
	Fluoride	mg/l	0.082 J	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.051 J	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
	Sulfate	mg/l	5.2	4.8	2.9	2.2	78	69.3	0.50 J	< 0.50	50.8	93.9	251	227
	Total Dissolved Solids	mg/l	180	219	59.0	76.0	158	170	66.0	68.0	116	234	579	460
Appendix IV	Antimony	mg/l	< 0.00078	< 0.0012	< 0.00078	< 0.0012	< 0.00078	< 0.0012	< 0.00078	< 0.0012	< 0.00078	< 0.0012	< 0.00078	< 0.0012
	Arsenic	mg/l	0.0030 J	< 0.0037	< 0.0022	< 0.0037	< 0.0022	< 0.0037	0.0035 J	< 0.0037	0.0047 J	< 0.0037	< 0.0022	< 0.0037
	Barium	mg/l	0.0075	0.0074	0.019	0.018	0.053	0.052	0.031	0.025	0.097	0.19	0.016	0.015
	Beryllium	mg/l	< 0.000054	< 0.00027	< 0.000054	< 0.00027	0.00022 J	0.00020 J	0.000054 J	0.000096 J	0.00066	0.0011	0.0020	0.0018
	Cadmium	mg/l	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.00068	0.00074
	Chromium	mg/l	< 0.0011	< 0.0011	0.0012 J	< 0.0011	0.0014 J	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
	Cobalt	mg/l	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039
	Lead	mg/l	< 0.00089	< 0.00012	< 0.00089	< 0.00012	< 0.00089	< 0.00012	< 0.00089	< 0.00012	< 0.00089	< 0.00012	< 0.00089	< 0.00012
	Lithium	mg/l	0.0059 J	0.0059 J	0.0036 J	< 0.0036	0.0028 J	0.0024 J	< 0.00073	< 0.00073	0.0010 J	0.0014 J	0.0058 J	0.0058 J
	Mercury	mg/l	< 0.00013	0.00015 J	< 0.00013	0.00014 J	< 0.00013	< 0.00013	< 0.00013	< 0.00012	< 0.00013	< 0.00012	< 0.00013	< 0.00013
	Molybdenum	mg/l	0.00095 J	0.00090 J	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074
	Combined Radium - 226/228	pCi/l	3.99	3.44	0.0815 U	1.02 U	0.400 U	1.25 U	0.137 U	1.53 U	0.326 U	1.14 U	0.361 U	1.04 U
	Selenium	mg/l	< 0.0014	< 0.0014	< 0.0014	< 0.0014	0.035	0.030	< 0.0014	< 0.0014	0.0027 J	0.0032 J	0.056	0.053
	Thallium	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018

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Table 6a
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Plant Yates - A-3, A, B, B' and R6 CCR Landfill

Analyte		Units	YGWC-41 2/8/2023	YGWC-41 8/16/2023	YGWC-42 2/8/2023	YGWC-42 8/16/2023	YGWC-43 2/8/2023	YGWC-43 8/16/2023	YGWC-49 2/9/2023	YGWC-49 8/16/2023	YGWC-50 8/17/2023
Appendix III	pH	SU	4.69	5.01	5.48	5.53	5.40	5.58	5.61	5.04	5.12
	Boron	mg/l	3.3	3.1	14.5	7.1	2.5	2.8	0.014 J	0.012 J	20.1
	Calcium	mg/l	14.4	13.5	74.6	69.2	11.0	10.7	11.8	11.1	229
	Chloride	mg/l	4.0	3.7	3.4	2.8	2.4	2.3	4.4	3.8	9.4
	Fluoride	mg/l	< 0.050	< 0.050	0.080 J	< 0.050	0.11	0.062 J	< 0.050	< 0.050	0.12
	Sulfate	mg/l	119	104	494	451	164	151	71.1	63.8	1140
	Total Dissolved Solids	mg/l	257	266	853	904	333	356	145	159	2010
Appendix IV	Antimony	mg/l	< 0.00078	< 0.0012	< 0.00078	< 0.0012	< 0.00078	0.0026 J	< 0.00078	< 0.0012	< 0.0012
	Arsenic	mg/l	0.0027 J	< 0.0037	0.0025 J	< 0.0037	0.0033 J	< 0.0037	< 0.0022	< 0.0037	< 0.0037
	Barium	mg/l	0.022	0.020	0.023	0.024	0.031	0.029	0.063	0.058	0.022
	Beryllium	mg/l	0.0013	0.0012	0.000062 J	0.000057 J	0.00036 J	0.00034 J	0.00012 J	0.00011 J	0.0047
	Cadmium	mg/l	< 0.00011	< 0.00011	0.00014 J	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.018
	Chromium	mg/l	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	0.0020 J	0.0017 J	< 0.0055
	Cobalt	mg/l	< 0.00039	< 0.00039	0.0018 J	0.0014 J	0.00049 J	0.00046 J	< 0.00039	< 0.00039	0.0086
	Lead	mg/l	< 0.00089	< 0.00012	< 0.00089	< 0.00012	< 0.00089	< 0.00012	< 0.00089	< 0.00012	0.00020 J
	Lithium	mg/l	0.0021 J	0.0021 J	0.046	0.054	0.015 J	0.015 J	0.0033 J	0.0030 J	0.0033 J
	Mercury	mg/l	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00012	< 0.00012
	Molybdenum	mg/l	< 0.00074	< 0.00074	0.00081 J	0.00096 J	0.0016 J	0.0019 J	< 0.00074	< 0.00074	< 0.00074
	Combined Radium - 226/228	pCi/l	0.852 U	1.23	0.817	1.68 U	3.73	4.92	0.667 U	1.32 U	1.33
	Selenium	mg/l	0.027	0.023	0.041	0.019	< 0.0014	< 0.0014	0.0054	0.0062	0.0018 J
	Thallium	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018

Notes:
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
< = 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
Groundwater Analytical Data (Additional Parameters) - February 2023
2023 Annual Groundwater Monitoring and Corrective Action Report
Plant Yates - A-3, A, B, B' and R6 CCR Landfill

Analyte	Units	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-38	YGWC-41	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37
		2/8/2023	2/10/2023	2/9/2023	2/8/2023	2/8/2023	2/8/2023	2/8/2023	2/9/2023	2/9/2023	2/8/2023
Alkalinity	$CaCO_3$	10.0	12.6	10.6	8.2	< 5.0	34.3	33.9	17.2	9.3	13.2
Alkalinity, Bicarbonate	$CaCO_3$	10.0	12.6	10.6	8.2	< 5.0	34.3	33.9	17.2	9.3	13.2
Alkalinity, Carbonate	$CaCO_3$	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Magnesium	mg/l	8.9	1.8	4.0	27.5	17.4	77.7	25.8	8.0	8.0	50.7
Potassium	mg/l	1.1	1.0	1.1	3.8	2.3	10.9	6.5	1.8	1.7	4.6
Sodium	mg/l	14.6	9.3	14.7	18.1	14.3	32.9	18.3	17.2	15.9	27.6

Notes:
mg/L = milligrams per liter
$CaCO_3$ = Calcium Carbonate
< = Analyte was not detected above the laboratory method detection limit (MDL).

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

Analyte	Units	PZ-37D	PZ-51	PZ-52D	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5
		2/8/2023	2/9/2023	2/8/2023	2/9/2023	2/8/2023	2/9/2023	2/8/2023	2/8/2023
Alkalinity	$CaCO_3$	131	10.9	36.2	29.2	15.3	53.7	58.1	13.1
Alkalinity, Bicarbonate	$CaCO_3$	131	10.9	36.2	29.2	15.3	53.7	58.1	13.1
Alkalinity, Carbonate	$CaCO_3$	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Magnesium	mg/l	10.1	45.6	44.4	25.4	2.0	59.2	39.2	49.0
Potassium	mg/l	12.4	4.7	7.8	9.7	0.69	16.6	6.1	7.8
Sodium	mg/l	72.9	18.8	45.0	22.2	6.7	50.0	25.3	41.7

Notes:
mg/L = milligrams per liter
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< = Analyte was not detected above the laboratory method detection limit (MDL).

Table 6c
Upgradient Groundwater Analytical Data - February and August 2023
2023 Annual Groundwater Monitoring and Corrective Action Report
Plant Yates - A-3, A, B, B' and R6 CCR Landfill

Analyte		Units	GWA-2 2/7/2023	GWA-2 8/15/2023	YGWA-1D 2/7/2023	YGWA-1D 8/15/2023	YGWA-1I 2/7/2023	YGWA-1I 8/15/2023	YGWA-2I 2/7/2023	YGWA-2I 8/15/2023	YGWA-3D 2/8/2023	YGWA-3D 8/15/2023
Appendix III	pH	SU	5.94	5.30	7.86	6.98	6.53	5.88	6.94	6.96	7.88	7.69
	Boron	mg/l	< 0.0086	< 0.043	< 0.0086	< 0.0086	< 0.0086	0.0094 J	< 0.0086	< 0.043	< 0.0086	< 0.043
	Calcium	mg/l	22.3	20.3	15.0	13.5	2.2	1.8	25.6	23.2	28.9	27.4
	Chloride	mg/l	6.1	5.6	1.3	1.1	1.5	1.4	1.1	0.93 J	1.2	1.1
	Fluoride	mg/l	0.095 J	0.065 J	0.093 J	0.057 J	0.071 J	< 0.050	0.12	0.081 J	0.56	0.42
	Sulfate	mg/l	82.4	74.2	10.6	9.6	6.6	4.6	17.8	17.2	7.5	6.8
	Total Dissolved Solids	mg/l	207	230	131	121	121	65.0	159	157	144	231
Appendix IV	Antimony	mg/l	< 0.00078	< 0.0012	< 0.00078	< 0.0012	< 0.00078	< 0.0012	< 0.00078	< 0.0012	< 0.00078	< 0.0012
	Arsenic	mg/l	< 0.0022	< 0.0037	< 0.0022	< 0.0037	< 0.0022	< 0.0037	< 0.0022	< 0.0037	0.0030 J	< 0.0037
	Barium	mg/l	0.034	0.030	0.14	0.0059	0.21	0.0078	0.0026 J	0.0031 J	0.0048 J	0.0046 J
	Beryllium	mg/l	< 0.000054	< 0.00027	0.0011	< 0.000054	0.00054	< 0.000054	< 0.000054	< 0.00027	< 0.000054	< 0.00027
	Cadmium	mg/l	0.00012 J	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011
	Chromium	mg/l	< 0.0011	< 0.0011	< 0.0011	< 0.0011	0.0013 J	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
	Cobalt	mg/l	0.034	0.031	0.00097 J	< 0.00039	0.0048 J	0.00072 J	< 0.00039	< 0.00039	< 0.00039	< 0.00039
	Lead	mg/l	< 0.00089	< 0.00012	< 0.00089	< 0.00012	< 0.00089	< 0.00012	< 0.00089	< 0.00012	< 0.00089	< 0.00012
	Lithium	mg/l	0.0022 J	< 0.0036	0.0060 J	0.0079 J	0.0029 J	0.0020 J	0.0047 J	< 0.0036	0.023 J	0.023 J
	Mercury	mg/l	0.00013 J	< 0.00013	< 0.00013	0.00015 J	< 0.00013	0.00015 J	< 0.00013	0.00015 J	< 0.00013	0.00014 J
	Molybdenum	mg/l	< 0.00074	< 0.00074	< 0.00074	0.0098 J	< 0.00074	0.0047 J	0.0061 J	0.0071 J	0.012	0.012
	Combined Radium - 226/228	pCi/l	1.00	0.916 U	0.920 U	1.08 U	0.661 U	1.06 U	0.536 U	1.03 U	2.74	2.79
	Selenium	mg/l	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014
	Thallium	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018

Notes:
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Table 6c
Upgradient Groundwater Analytical Data - February and August 2023
2023 Annual Groundwater Monitoring and Corrective Action Report
Plant Yates - A-3, A, B, B' and R6 CCR Landfill

Analyte		Units	YGWA-3I 2/8/2023	YGWA-3I 8/16/2023	YGWA-4I 2/9/2023	YGWA-4I 8/15/2023	YGWA-5D 2/7/2023	YGWA-5D 8/15/2023	YGWA-5I 2/9/2023	YGWA-5I 8/15/2023	YGWA-14S 2/8/2023	YGWA-14S 8/15/2023
Appendix III	pH	SU	7.73	7.39	6.23	5.99	6.64	7.34	5.90	5.58	5.39	5.03
	Boron	mg/l	< 0.0086	< 0.043	< 0.0086	< 0.0086	< 0.0086	< 0.043	< 0.0086	< 0.043	0.015 J	0.017 J
	Calcium	mg/l	23.3	24.9	9.6	7.8	26.6	25.0	2.8	2.6	1.5	1.3
	Chloride	mg/l	1.1	1.1	4.5	4.4	3.3	3.1	5.0	4.1	4.9	4.1
	Fluoride	mg/l	0.16	0.11	0.067 J	< 0.050	0.082 J	< 0.050	< 0.050	< 0.050	0.059 J	< 0.050
	Sulfate	mg/l	14.7	20.3	8.9	7.5	5.2	4.8	2.9	2.2	6.1	6.0
	Total Dissolved Solids	mg/l	145	148	124	99.0	180	219	59.0	76.0	56.0	69.0
Appendix IV	Antimony	mg/l	< 0.00078	< 0.0012	< 0.00078	< 0.0012	< 0.00078	< 0.0012	< 0.00078	< 0.0012	< 0.00078	< 0.0012
	Arsenic	mg/l	0.0024 J	< 0.0037	< 0.0022	< 0.0037	0.0030 J	< 0.0037	< 0.0022	< 0.0037	< 0.0022	< 0.0037
	Barium	mg/l	0.0029 J	0.0037 J	0.014	0.011	0.0075	0.0074	0.019	0.018	0.0089	0.0079
	Beryllium	mg/l	< 0.000054	< 0.00027	< 0.000054	< 0.000054	< 0.000054	< 0.00027	< 0.000054	< 0.00027	0.00022 J	0.00018 J
	Cadmium	mg/l	0.00013 J	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011
	Chromium	mg/l	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	0.0012 J	< 0.0011	< 0.0011	< 0.0011
	Cobalt	mg/l	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039
	Lead	mg/l	< 0.00089	< 0.00012	< 0.00089	< 0.00012	< 0.00089	< 0.00012	< 0.00089	< 0.00012	< 0.00089	< 0.00012
	Lithium	mg/l	0.018 J	0.025 J	0.014 J	0.0083 J	0.0059 J	0.0059 J	0.0036 J	< 0.0036	< 0.00073	< 0.00073
	Mercury	mg/l	< 0.00013	< 0.00013	< 0.00013	0.00013 J	< 0.00013	0.00015 J	< 0.00013	0.00014 J	< 0.00013	0.00016 J
	Molybdenum	mg/l	0.0065 J	0.012	< 0.00074	< 0.00074	0.00095 J	0.00090 J	< 0.00074	< 0.00074	< 0.00074	< 0.00074
	Combined Radium - 226/228	pCi/l	1.18	1.87	1.12	1.14	3.99	3.44	0.0815 U	1.02 U	0.830 U	0.924 U
	Selenium	mg/l	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	0.0014 J
	Thallium	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018

Notes:
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Table 6c
Upgradient Groundwater Analytical Data - February and August 2023
2023 Annual Groundwater Monitoring and Corrective Action Report
Plant Yates - A-3, A, B, B' and R6 CCR Landfill

Analyte		Units	YGWA-17S 2/7/2023	YGWA-17S 8/15/2023	YGWA-18I 2/7/2023	YGWA-18I 8/15/2023	YGWA-18S 2/7/2023	YGWA-18S 8/15/2023	YGWA-20S 2/7/2023	YGWA-20S 8/15/2023	YGWA-21I 2/7/2023	YGWA-21I 8/15/2023
Appendix III	pH	SU	5.47	5.54	6.00	5.82	5.03	5.20	5.63	7.00	6.82	6.84
	Boron	mg/l	0.014 J	< 0.043	< 0.0086	< 0.043	< 0.0086	< 0.0086	< 0.0086	< 0.043	< 0.0086	0.046 J
	Calcium	mg/l	2.9	2.9	5.5	5.1	0.79 J	0.80 J	2.4	2.2	7.5	6.1
	Chloride	mg/l	11.4	11.6	7.4	7.3	6.4	6.7	2.9	2.8	2.4	2.3
	Fluoride	mg/l	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.10	0.061 J
	Sulfate	mg/l	4.9	4.6	0.78 J	0.51 J	1.2	0.88 J	< 0.50	< 0.50	3.8	4.1
	Total Dissolved Solids	mg/l	78.0	74.0	96.0	96.0	55.0	81.0	89.0	62.0	163	126
Appendix IV	Antimony	mg/l	0.0013 J	< 0.0012	< 0.00078	< 0.0012	< 0.00078	< 0.0012	< 0.00078	< 0.0012	< 0.00078	< 0.0012
	Arsenic	mg/l	< 0.0022	< 0.0037	< 0.0022	< 0.0037	< 0.0022	< 0.0037	< 0.0022	< 0.0037	0.0028 J	< 0.0037
	Barium	mg/l	0.017	0.016	0.019	0.020	0.012	0.012	0.014	0.012	0.010	0.0075
	Beryllium	mg/l	0.000096 J	< 0.00027	< 0.000054	< 0.00027	0.000071 J	0.000057 J	0.000074 J	< 0.00027	< 0.000054	< 0.00027
	Cadmium	mg/l	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.00012 J	< 0.00011
	Chromium	mg/l	< 0.0011	< 0.0011	< 0.0011	< 0.0011	0.0016 J	0.0013 J	< 0.0011	< 0.0011	< 0.0011	< 0.0011
	Cobalt	mg/l	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	0.014	0.011
	Lead	mg/l	< 0.00089	< 0.00012	< 0.00089	< 0.00012	< 0.00089	< 0.00012	< 0.00089	< 0.00012	< 0.00089	< 0.00012
	Lithium	mg/l	< 0.00073	< 0.0036	0.0030 J	< 0.0036	0.0012 J	0.00077 J	< 0.00073	< 0.0036	0.0059 J	0.0062 J
	Mercury	mg/l	0.00018 J	< 0.00013	0.00013 J	0.00014 J	0.00017 J	0.00015 J	0.00015 J	< 0.00013	0.00017 J	< 0.00013
	Molybdenum	mg/l	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074
	Combined Radium - 226/228	pCi/l	0.367 U	1.23 U	0.485 U	1.11 U	0.656 U	1.04 U	0.794 U	1.29 U	1.53	1.68
	Selenium	mg/l	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014
	Thallium	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018

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Table 6c
Upgradient Groundwater Analytical Data - February and August 2023
2023 Annual Groundwater Monitoring and Corrective Action Report
Plant Yates - A-3, A, B, B' and R6 CCR Landfill

Analyte		Units	YGWA-30I 2/8/2023	YGWA-30I 8/16/2023	YGWA-39 2/7/2023	YGWA-39 8/15/2023	YGWA-40 2/8/2023	YGWA-40 8/15/2023	YGWA-47 2/8/2023	YGWA-47 8/15/2023
Appendix III	pH	SU	6.43	5.55	5.49	5.78	5.71	5.00	5.22	5.69
	Boron	mg/l	< 0.0086	< 0.043	0.13	0.15 J	0.057	0.052 J	0.011 J	< 0.043
	Calcium	mg/l	1.3	1.4	16.1	17.2	5.9	5.3	9.2	9.6
	Chloride	mg/l	1.6	1.5	5.6	4.5	6.9	5.6	3.5	3.5
	Fluoride	mg/l	0.064 J	< 0.050	0.076 J	< 0.050	< 0.050	< 0.050	0.077 J	< 0.050
	Sulfate	mg/l	0.96 J	0.90 J	9.7	7.6	17.5	16.4	50.5	47.7
	Total Dissolved Solids	mg/l	43.0	48.0	224	225	115	83.0	141	186
Appendix IV	Antimony	mg/l	< 0.00078	< 0.0012	< 0.00078	< 0.0012	< 0.00078	< 0.0012	< 0.00078	< 0.0012
	Arsenic	mg/l	< 0.0022	< 0.0037	0.0029 J	< 0.0037	< 0.0022	< 0.0037	< 0.0022	< 0.0037
	Barium	mg/l	0.0066	0.0066	0.030	0.031	0.037	0.034	0.031	0.032
	Beryllium	mg/l	< 0.000054	< 0.00027	< 0.000054	< 0.00027	0.00026 J	< 0.00027	< 0.000054	< 0.00027
	Cadmium	mg/l	< 0.00011	< 0.00011	0.00014 J	< 0.00011	< 0.00011	< 0.00011	0.00032 J	< 0.00011
	Chromium	mg/l	0.0021 J	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
	Cobalt	mg/l	0.0031 J	0.0028 J	0.00066 J	0.00072 J	< 0.00039	< 0.00039	0.0011 J	0.00072 J
	Lead	mg/l	< 0.00089	< 0.00012	< 0.00089	< 0.00012	< 0.00089	< 0.00012	< 0.00089	< 0.00012
	Lithium	mg/l	0.0011 J	< 0.0036	0.0065 J	0.0064 J	0.00074 J	< 0.0036	0.0037 J	0.0040 J
	Mercury	mg/l	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	0.00037	< 0.00013	0.00014 J
	Molybdenum	mg/l	< 0.00074	< 0.00074	0.0045 J	0.0061 J	< 0.00074	< 0.00074	< 0.00074	< 0.00074
	Combined Radium - 226/228	pCi/l	0.417 U	1.37 U	1.41	1.17 U	1.56	1.18 U	0.375 U	1.04 U
	Selenium	mg/l	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014
	Thallium	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018

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

Analyte	Units	GWA-2	YGWA-1I	YGWA-1D	YGWA-2I	YGWA-3I	YGWA-3D	YGWA-4I	YGWA-5I	YGWA-5D	YGWA-14S	YGWA-17S	YGWA-18I
		2/7/2023	2/7/2023	2/7/2023	2/7/2023	2/8/2023	2/8/2023	2/9/2023	2/9/2023	2/7/2023	2/8/2023	2/7/2023	2/7/2023
Alkalinity	mg/l as $CaCO_3$	62.4	20.4	65.4	87.6	92.2	106	57.7	26.4	96.5	13.0	15.6	36.0
Alkalinity, Bicarbonate	mg/l as $CaCO_3$	62.4	20.4	65.4	87.6	92.2	106	57.7	26.4	96.5	13.0	15.6	36.0
Alkalinity, Carbonate	mg/l as $CaCO_3$	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Magnesium	mg/l	19.3	1.5	1.9	4.1	5.4	3.6	5.3	2.7	4.6	1.6	0.98	3.1
Potassium	mg/l	9.5	2.0	4.8	5.1	5.3	3.5	4.1	1.6	3.7	0.87	0.41	0.96
Sodium	mg/l	8.1	5.6	11.5	9.0	9.4	9.9	9.9	10.8	9.7	9.5	14.2	12.6

Notes:
mg/L = milligrams per liter
$CaCO_3$ = Calcium Carbonate
< Analyte was not detected above the laboratory method detection limit (MDL).

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

Analyte	Units	YGWA-18S	YGWA-20S	YGWA-21I	YGWA-30I	YGWA-39	YGWA-40	YGWA-47
		2/7/2023	2/7/2023	2/7/2023	2/8/2023	2/7/2023	2/8/2023	2/8/2023
Alkalinity	mg/l as $CaCO_3$	9.3	23.3	78.4	15.4	177	27.6	37.8
Alkalinity, Bicarbonate	mg/l as $CaCO_3$	9.3	23.3	78.4	15.4	177	27.6	37.8
Alkalinity, Carbonate	mg/l as $CaCO_3$	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Magnesium	mg/l	0.91	0.58	3.9	0.92	21.7	3.4	10
Potassium	mg/l	0.50	0.55	3.2	0.55	6.6	2.2	3.7
Sodium	mg/l	7.8	8.7	20.4	6.0	28.1	10.1	11.4

Notes:
mg/L = milligrams per liter
$CaCO_3$ = Calcium Carbonate
< Analyte was not detected above the laboratory method detection limit (MDL).

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

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

Notes:

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

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

Acronyms and Abbreviations:

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

CFR = Code of Federal Regulations

MCL = Maximum Contaminant Level

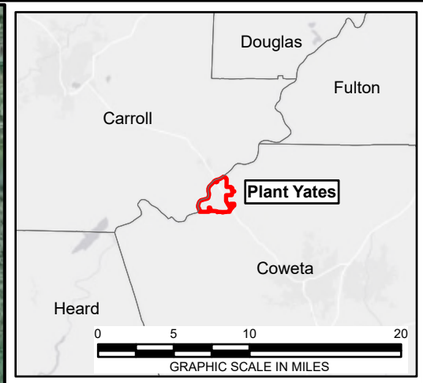
mg/L = millgrams per liter

pCi/L = picocuries per liter

Figures

84°55'30"W 84°55'20"W 84°55'10"W 84°55'0"W 84°54'50"W 84°54'40"W 84°54'30"W 84°54'20"W 84°54'10"W 84°54'0"W 84°53'50"W 84°53'40"W 84°53'30"W 84°53'20"W 84°53'10"W 84°53'0"W 84°52'50"W 84°52'40"W 84°52'30"W

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



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- PERMITTED UNIT BOUNDARY

NOTE:
AERIAL IMAGE SOURCES: JULY 17, 2023 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2021 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

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

SITE LOCATION MAP

ARCADIS

FIGURE
1

LEGEND

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

NOTE:
AERIAL IMAGE SOURCES: JULY 17, 2023 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2021 IMAGERY.

0 450 900 1,800
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power

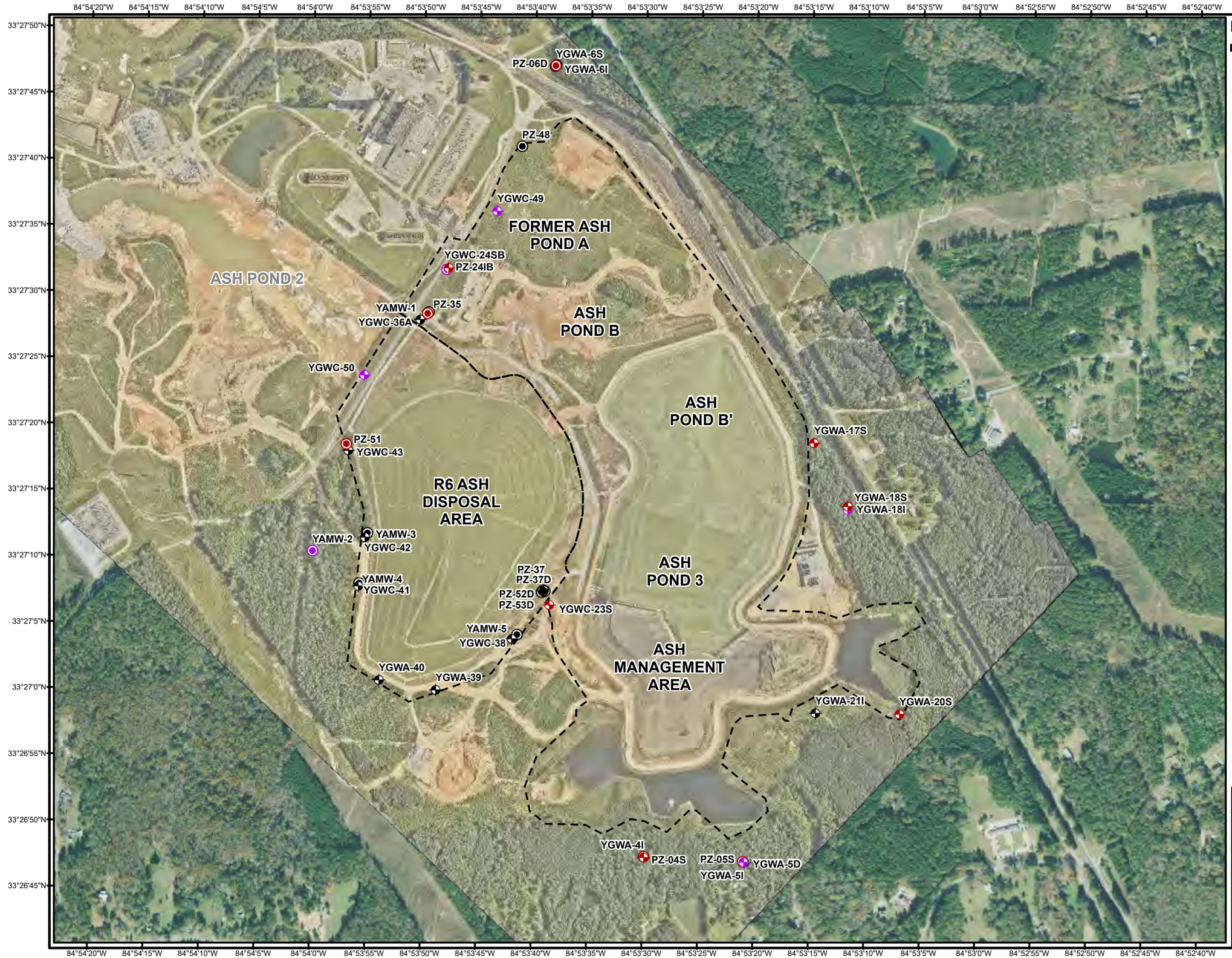
PLANT YATES AP-3, A, B, B', AND R6 CCR LANDFILL
NEWNAN, GA

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

PLANT YATES CCR REMOVAL AREAS

ARCADIS

FIGURE
2



LEGEND

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

NOTE:
AERIAL IMAGE SOURCES: 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
2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

WELL LOCATION MAP

ARCADIS

FIGURE
3

84°54'50"W 84°54'45"W 84°54'40"W 84°54'35"W 84°54'30"W 84°54'25"W 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°28'5"N
33°28'0"N
33°27'55"N
33°27'50"N
33°27'45"N
33°27'40"N
33°27'35"N
33°27'30"N
33°27'25"N
33°27'20"N
33°27'15"N
33°27'10"N
33°27'5"N
33°27'0"N
33°26'55"N
33°26'50"N
33°26'45"N
33°26'40"N

YGWA-47 722.85
YGWC-52 717.85
PZ-09I 696.45
PZ-09S 696.60
YGWC-44 708.25
YGWC-45 697.38
GWC-4R 741.57
GWC-2R 742.82
GWC-3R 746.72
GWC-6R 752.98
GWC-5R 753.01
GWC-1R 750.31
Former Gypsum Stack Landfill
GWA-2 768.16
FORMER ASH POND 1
PZ-53 695.39
YGWC-46A 695.76
PZ-10I 698.41
PZ-10S 694.11
YGWA-6S 762.52
PZ-06D 758.97
YGWA-6I 762.59
PZ-48 758.11
YGWC-26S 691.73
YGWC-26I 690.52
YGWC-27S 689.58
YGWC-27I 689.27
YGWC-28I
YGWC-28S
YGWC-29IA 691.79
YGWC-49 749.41
YGWC-24SB 737.43
PZ-24IB 737.03
FORMER ASH POND A
PZ-25I 715.82
PZ-25S 719.53
PZ-35 732.29
YAMW-1 732.51
ASH POND 2
ASH POND B
YGWA-30I 717.84
YGWC-36A 728.88
PZ-31S 707.81
YGWC-50 714.77
PZ-13S 770.69
PZ-13I 766.66
YGWA-14S 729.06
PZ-14I 728.39
PZ-51I 734.53
YGWC-43 720.96
ASH POND B'
YGWA-17S 771.48
YGWA-18S 769.84
YGWA-18I 766.91
R6 ASH DISPOSAL AREA
YAMW-3 758.46
PZ-01S 803.18
YGWA-1I 797.55
YGWA-1D 787.41
YGWC-42 768.32
YAMW-2 758.07
YGWA-3I 744.28
PZ-03S 759.04
YGWA-3D 764.94
YAMW-4 772.20
YGWC-41 773.99
PZ-52D 756.23
PZ-53D 757.24
PZ-37 749.05
PZ-37D 757.19
YGWC-23S 748.68
ASH POND 3
YGWA-2I 820.19
YGWC-38 768.02
YAMW-5 772.53
YGWA-40 792.71
YGWA-39 800.45
ASH MANAGEMENT AREA
YGWA-21I 753.63
YGWA-20S 756.13
YGWA-4I 760.57
PZ-04S 759.09
PZ-05S 765.51
YGWA-5I 765.36
YGWA-5D 765.17

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

LEGEND

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

GEORGIA REGISTERED No. PE027800 PROFESSIONAL ENGINEER JOY GEOFFREY GRAY

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 2023 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2021 IMAGERY.

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

6. GROUNDWATER ELEVATIONS COLLECTED ON FEBRUARY 6, 2023.

7. YGWC-28S AND YGWC-28I WERE INACCESSIBLE DURING THE GAUGING EVENT DUE TO SURROUNDING CONSTRUCTION ACTIVITIES AND RAILINGS FOR WELL ACCESS WELL HAD NOT BEEN CONSTRUCTED.

0 450 900 1,800
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

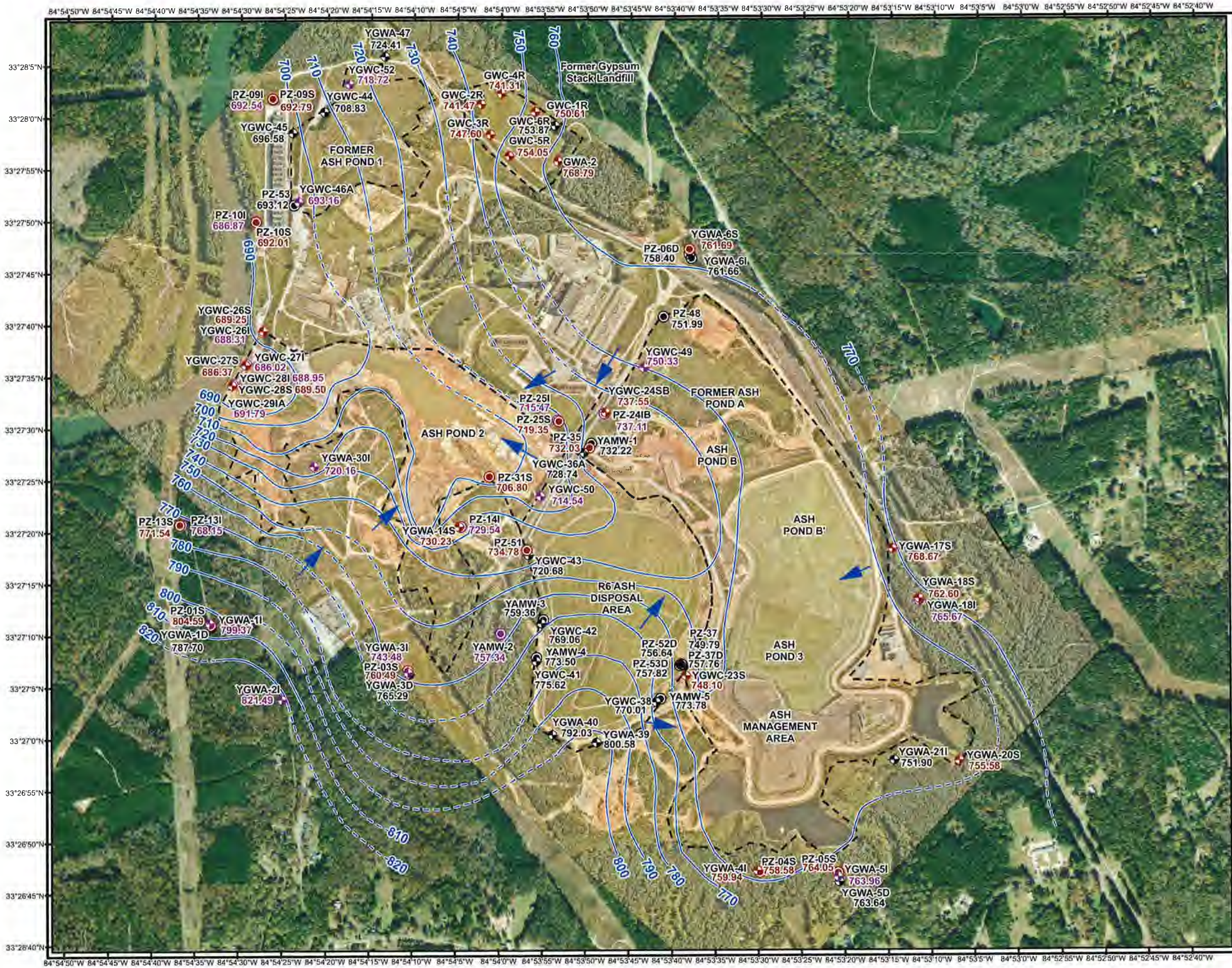
Georgia Power

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

SITEWIDE GROUNDWATER ELEVATION MAP FEBRUARY 2023

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

757.11 GROUNDWATER ELEVATION (FEET)

GEORGIA REGISTERED No. PE027867 PROFESSIONAL ENGINEER JEFFREY CAY

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: JULY 17, 2023 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2021 IMAGERY.

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

6. GROUNDWATER ELEVATIONS COLLECTED ON AUGUST 14, 2023

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

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

SITEWIDE GROUNDWATER ELEVATION MAP AUGUST 2023

ARCADIS

FIGURE **5**

LEGEND

- SAPROLITE DETECTION MONITORING WELL LOCATION
- TRANSITION DETECTION MONITORING WELL LOCATION
- BEDROCK DETECTION MONITORING WELL LOCATION
- SAPROLITE ASSESSMENT WELL/ PIEZOMETER
- TRANSITION ASSESSMENT WELL/ PIEZOMETER
- BEDROCK ASSESSMENT WELL/ PIEZOMETER
- PERMITTED UNIT BOUNDARY
- GROUNDWATER FLOW DIRECTION
- 757.11 GROUNDWATER ELEVATION (FEET)

GEORGIA REGISTERED No. PE027801 PROFESSIONAL ENGINEER JEFFREY C. [illegible]

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 2023 IMAGERY FLOWN AND PROCESSED BY SAM LLC. NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2021 IMAGERY.

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

6. GROUNDWATER ELEVATIONS COLLECTED ON FEBRUARY 6, 2023.

0 350 700 1,400

GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power

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

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

GROUNDWATER ELEVATION MAP FEBRUARY 2023

ARCADIS

FIGURE 6

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

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

PZ-06D 758.40
YGWA-6S 761.69
YGWA-6I 761.66
PZ-48 751.99
YGWC-49 750.33
FORMER ASH POND A
PZ-24IB 737.11
YGWC-24SB 737.55
ASH POND 2
PZ-35 732.03
YAMW-1 732.22
YGWC-36A 728.74
ASH POND B
YGWC-50 714.54
ASH POND B'
PZ-51 734.78
YGWC-43 720.68
R6 ASH DISPOSAL AREA
YAMW-2 757.34
YAMW-3 759.36
YGWC-42 769.06
YAMW-4 773.50
YGWC-41 775.62
PZ-52D 756.64
PZ-53D 757.82
PZ-37 749.79
PZ-37D 757.76
YGWC-23S 748.10
ASH POND 3
YGWC-38 770.01
YAMW-5 773.78
YGWA-40 792.03
YGWA-39 800.58
ASH MANAGEMENT AREA
YGWA-17S 768.67
YGWA-18S 762.60
YGWA-18I 765.67
YGWA-21I 751.90
YGWA-20S 755.58
YGWA-4I 759.94
PZ-04S 758.58
PZ-05S 764.05
YGWA-5I 763.96
YGWA-5D 763.64

LEGEND

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

GEORGIA REGISTERED No. PE027801 PROFESSIONAL ENGINEER JON LEONARD

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: JULY 17, 2023 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2021 IMAGERY.

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

6. GROUNDWATER ELEVATIONS COLLECTED ON AUGUST 14, 2023.

0 350 700 1,400
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power

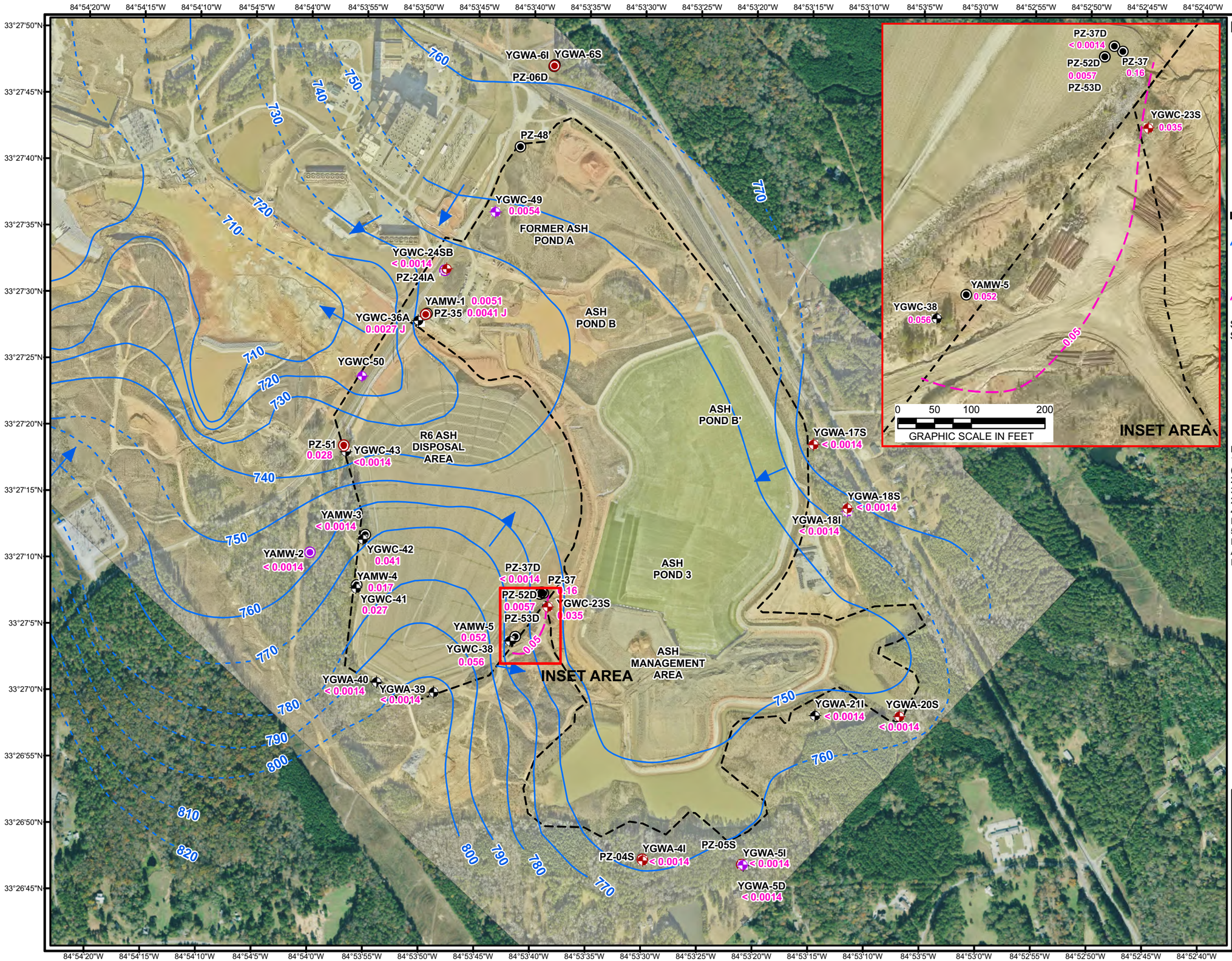
PLANT YATES AP-3, A, B, B', AND R6 CCR LANDFILL
NEWNAN, GA

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

GROUNDWATER ELEVATION MAP AUGUST 2023

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)

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

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power

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

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

SELENIUM ISOCONCENTRATION MAP, FEBRUARY 2023

ARCADIS

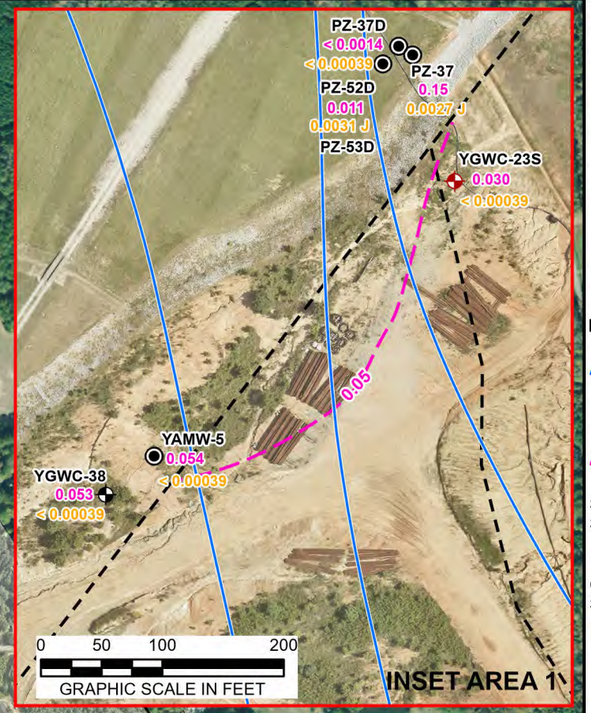
FIGURE
8

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

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

YGWA-6I YGWA-6S
PZ-06D
PZ-48'
YGWC-49
0.0062
< 0.00039
YGWC-24SB
< 0.0014
< 0.00039
PZ-24IA
FORMER ASH POND A
YAMW-1 0.0046 J 0.0027 J
PZ-35 0.0039 J < 0.00039
YGWC-36A
0.0032 J
< 0.00039
ASH POND B
YGWC-50
0.0018 J
0.0086
ASH POND B'
PZ-51
0.024
0.0056
YGWC-43
< 0.0014
0.00046 J
R6 ASH DISPOSAL AREA
YAMW-3
0.0075
0.14
YGWC-42
0.019
0.0014 J
YAMW-2
< 0.0014
0.0053
YAMW-4
0.019
< 0.00039
YGWC-41
0.023
< 0.00039
PZ-37D
< 0.0014
< 0.00039
PZ-37
0.15
0.0027 J
PZ-52D
0.011
0.0031 J
YGWC-23S
0.030
< 0.00039
PZ-53D
YAMW-5
0.054
< 0.00039
YGWC-38
0.053
< 0.00039
ASH POND 3
ASH MANAGEMENT AREA
INSET AREA 1
YGWA-40
< 0.0014
< 0.00039
YGWA-39
< 0.0014
0.00072 J
YGWA-17S
< 0.0014
< 0.00039
YGWA-18S
< 0.0014
< 0.00039
YGWA-18I
< 0.0014
< 0.00039
YGWA-21I
< 0.0014
0.011
YGWA-20S
< 0.0014
< 0.00039
PZ-04S
YGWA-4I
PZ-05S
YGWA-5I
< 0.0014
< 0.00039
YGWA-5D
< 0.0014
< 0.00039



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)

NOTES:
1. RESULTS ARE PROVIDED IN MILLIGRAMS PER LITER (mg/L)
2. J = ESTIMATED VALUE
3. SAMPLES WERE COLLECTED AUGUST 15-17, 2023.
4. APPROXIMATE POTENTIOMETRIC CONTOURS DATED AUGUST 14, 2023.
5. 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

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

SELENIUM AND COBALT ISOCONCENTRATION MAP – AUGUST 2023

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FIGURE
9

Appendix A

Field Sampling and Well Inspection Forms

February 2023

February 2023 Daily Calibration Log

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

Instrument Calibration
Date: 02/07/2023 Initial

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

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

Date: 02/07/2023 Time: Midday

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

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

Notes:

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

February 2023 Daily Calibration Log

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

Instrument Calibration
Date: 02/08/2023 Initial

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

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

Date: 02/08/2023 Time: Midday

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

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

Notes:

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

February 2023 Daily Calibration Log

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

Instrument Calibration
Date: 02/09/2023 Initial

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

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

Date: 02/09/2023 Time: Midday

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

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

Notes:

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

February 2023 Daily Calibration Log

Project Plant Yates

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

Instrument Calibration

Date: 02/10/2023 Initial

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

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

Notes:

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

ARCADIS Design & Consultancy for natural and built assets

Groundwater Gauging Log

Client:	Georgia Power
Project Location:	AMA AP-3, A, B and B'
Date:	2/6/2023
Sampler:	Kim Lapszynski
Equipment:	water probe

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

ARCADIS Design & Consultancy for natural and built assets

Groundwater Gauging Log

Client:	Georgia Power
Project Location:	AMA R6 CCR Landfill
Date:	2/6/2023
Sampler:	Kim Lapszynski
Equipment:	water probe

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

Groundwater Sampling Form

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

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

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

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

Comments: None

Well Casing Volume Conversion

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

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

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

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

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

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

Comments: None

Well Casing Volume Conversion

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

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

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

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

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

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

Comments: Missing labels, some handwritten

Well Casing Volume Conversion

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

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

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

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

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

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

Comments: None

Well Casing Volume Conversion

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

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

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

Project Number	30053438	**Well ID**	PZ-52D			**Date**	02/08/2023
Project Location	AMA R6 CCR Landfill		**Weather(°F)**				
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	82	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	6.58	**Total Depth (ft-bmp)**	92	**Water Column(ft)**	85.42	**Gallons in Well**	13.88
MP Elevation	762.79	**Pump Intake (ft-bmp)**	87	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	11:16	**Well Volumes Purged**	0.11	**Sample ID**	YAT-PZ-52D	**Sampled by**	Jessica Ware
Purge Start	10:38	**Gallons Purged**	1.49	**Replicate/ Code No.**		**Color**	Clear
Purge End	11:14						

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

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

Comments: None

Well Casing Volume Conversion

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

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: NA Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

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

Project Number	30053438	**Well ID**	YGWC-42			**Date**	02/08/2023
Project Location	AMA R6 CCR Landfill		**Weather(°F)**				
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	49.36	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	29.45	**Total Depth (ft-bmp)**	59.76	**Water Column(ft)**	30.31	**Gallons in Well**	4.93
MP Elevation	797.86	**Pump Intake (ft-bmp)**	55	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	17:36	**Well Volumes Purged**	0.32	**Sample ID**	YAT-YGWC-42	**Sampled by**	Jessica Ware
Purge Start	16:37	**Gallons Purged**	1.59	**Replicate/ Code No.**		**Color**	Clear
Purge End	17:34						

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

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

Comments: None

Well Casing Volume Conversion

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

Well Information

Well Location: _____

Well Locked at Arrival: _____

Groundwater Sampling Form

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

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

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

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

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

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

Well Information

Well Location:

Well Locked at Arrival:

Condition of Well:

Well Locked at Departure:

Well Completion: NA

Key Number To Well: NA

Groundwater Sampling Form

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

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

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

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

Comments: None

Well Casing Volume Conversion

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

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: NA Key Number To Well: NA

Groundwater Sampling Form

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

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

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

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

Comments: None

Well Casing Volume Conversion

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

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

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

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

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

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

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

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

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

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

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

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

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

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

Well Casing Volume Conversion

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

Well Information

Well Location:

Well Locked at Arrival:

Condition of Well:

Well Locked at Departure:

Well Completion: NA

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

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

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

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

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

Comments: Completed mid-day calibration.

Well Casing Volume Conversion

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

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

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

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

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

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

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

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

Well Information

Well Location:

Well Locked at Arrival:

Condition of Well:

Well Locked at Departure:

Well Completion: NA

Key Number To Well: NA

Groundwater Sampling Form

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

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

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

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

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

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

Well Information

Well Location:

Well Locked at Arrival:

Condition of Well:

Well Locked at Departure:

Well Completion: NA

Key Number To Well: NA

Groundwater Sampling Form

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

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

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

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

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

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

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

Well Information

Well Location:

Well Locked at Arrival:

Condition of Well:

Well Locked at Departure:

Well Completion: NA

Key Number To Well: NA

Groundwater Sampling Form

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

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

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

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

Comments: None.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

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

Well Information

Well Location:

Well Locked at Arrival:

Condition of Well:

Well Locked at Departure:

Well Completion: NA

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

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

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

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

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

Comments: None.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

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

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

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

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

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

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

Comments: None.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

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

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

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

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

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

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

Comments: None.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

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

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

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

Project Number	30053438	**Well ID**	PZ-37D			**Date**	02/08/2023
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**				
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	192.44	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	3.91	**Total Depth (ft-bmp)**	202.44	**Water Column(ft)**	198.53	**Gallons in Well**	32.26
MP Elevation	761.12	**Pump Intake (ft-bmp)**	197	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	13:48	**Well Volumes Purged**	0.06	**Sample ID**	YAT-PZ-37D	**Sampled by**	Jessica Ware
Purge Start	12:46	**Gallons Purged**	1.85	**Replicate/ Code No.**		**Color**	Clear
Purge End	13:47						

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

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

Comments: Used peri pump

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

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

Well Information

Groundwater Sampling Form

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

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

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

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

Comments: None.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

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

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

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

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

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

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

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

Well Casing Volume Conversion

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

Well Information

Well Location:

Well Locked at Arrival:

Condition of Well:

Well Locked at Departure:

Well Completion: NA

Key Number To Well: NA

Groundwater Sampling Form

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

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

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

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

Comments: None.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

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

Well Information

Well Location:

Well Locked at Arrival:

Condition of Well:

Well Locked at Departure:

Well Completion: NA

Key Number To Well: NA

Groundwater Sampling Form

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

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

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

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

Comments: None.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

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

Well Information

Well Location:

Well Locked at Arrival:

Condition of Well:

Well Locked at Departure:

Well Completion: NA

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

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

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

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

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

Comments: None.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

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

Well Information

Well Location:

Well Locked at Arrival:

Condition of Well:

Well Locked at Departure:

Well Completion: NA

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

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

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

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

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

Comments: None.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

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

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

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

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

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

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

Comments: None.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

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

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

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

Project Number	30143608	**Well ID**	YGWC-49			**Date**	02/09/2023
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	68.0 degrees F and Cloudy. The wind is blowing SW at 6.9 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	68.03	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	33.25	**Total Depth (ft-bmp)**	78.53	**Water Column(ft)**	45.28	**Gallons in Well**	7.36
MP Elevation	782.73	**Pump Intake (ft-bmp)**	73	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	15:00	**Well Volumes Purged**	0.16	**Sample ID**	YAT-YGWC-49	**Sampled by**	Mark Chest
Purge Start	14:39	**Gallons Purged**	1.19	**Replicate/ Code No.**		**Color**	Clear
Purge End	14:59						

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)
14:39:00	00:00	225	33.25	6.55	224.37	0.56	7.23	17.4	92.99
14:44:00	05:00	225	33.88	5.56	208.93	0.50	2.78	17.9	138.89
14:49:00	10:00	225	34.12	5.58	205.16	0.56	2.65	17.8	152.19
14:54:00	15:00	225	34.18	5.60	206.17	0.41	2.58	17.8	160.08
14:59:00	20:00	225	34.18	5.61	207.78	0.47	2.61	17.8	166.45

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

Comments: Good

Well Casing Volume Conversion

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

Well Information

Well Location:

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

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-6I
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	09:01:00

			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

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-6S
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	09:08:00

			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

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	PZ-06D
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	09:09:00

			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

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-20S
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	09:22:00

			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

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-21I
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	09:29:00

			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

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-5D
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	09:38:00

			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

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-5I
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	09:40:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	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

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	PZ-05S
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	09:41:00

			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

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-4I
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	09:49:00

			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

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	PZ-04S
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
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

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	PZ-48
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	10:05:00

			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:				
	Needs brush clearing.				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-18S
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	10:17:00

			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

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-18I
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	10:18:00

			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

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-17S
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	10:41:00

			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

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YAMW-3
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	11:25:00

			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

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YGWC-42
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	11:30:00

			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

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YAMW-2
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	11:37:00

			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

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YAMW-4
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
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

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YGWC-41
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
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

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YGWA-40
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	11:51:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	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

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	PZ-37
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
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

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	PZ-37D
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	12:04:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	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

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	PZ-53D
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	12:07:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	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

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	PZ-52D
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
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

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWC-23S
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
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

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YAMW-5
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	12:22:00

			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

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YGWC-38
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	12:25:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	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

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YGWA-39
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	12:35:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	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

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YGWC-43
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
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

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	PZ-51
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	12:45:00

			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

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	PZ-35
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	12:52:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	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

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YAMW-1
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	12:54:00

			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

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YGWC-36A
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	12:58:00

			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

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWC-24SB
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	13:05:00

			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

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	PZ-24IB
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	13:02:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	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

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWC-49
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
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:				

Upgradient Wells

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

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

Project Number	30052922	**Well ID**	YGWA-1I			**Date**	02/07/2023
Project Location	AP-2		**Weather(°F)**	Clear 51 F			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	43.3	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	39.06	**Total Depth (ft-bmp)**	53.6	**Water Column(ft)**	14.54	**Gallons in Well**	2.36
MP Elevation	836.6	**Pump Intake (ft-bmp)**	49	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	11:45	**Well Volumes Purged**	0.64	**Sample ID**	YAT-YGWA-1I	**Sampled by**	Jake Swanson
Purge Start	11:03	**Gallons Purged**	1.52	**Replicate/ Code No.**		**Color**	Clear
Purge End	11:38						

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)
11:03:00	00:00	200	39.06	6.71	74.95	0.87	9.78	15.3	187.74
11:08:00	05:00	200	39.98	6.17	101.76	0.77	4.83	16.0	-37.34
11:13:00	10:00	150	40.4	6.57	98.30	1.03	1.59	15.9	-102.75
11:18:00	15:00	150	40.53	6.55	89.26	1.13	1.36	16.0	-86.28
11:23:00	20:00	150	40.72	6.51	82.44	0.95	1.43	16.2	-71.08
11:28:00	25:00	150	40.83	6.50	77.12	1.02	1.63	16.2	-54.52
11:33:00	30:00	150	40.9	6.50	76.30	0.88	1.67	16.5	-43.97
11:38:00	35:00	150	40.96	6.53	75.28	0.71	1.70	16.8	-36.16

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

Comments: None

Well Casing Volume Conversion

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

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: NA Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

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

Project Number	30052922	**Well ID**	YGWA-1D			**Date**	02/07/2023
Project Location	AP-2		**Weather(°F)**	61.7 degrees F and Clear. The wind is blowing S/SE at 6.9 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	78.05	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	49.88	**Total Depth (ft-bmp)**	128.85	**Water Column(ft)**	78.97	**Gallons in Well**	12.83
MP Elevation	837.25	**Pump Intake (ft-bmp)**	108	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	13:40	**Well Volumes Purged**	0.16	**Sample ID**	YAT-YGWA-1D	**Sampled by**	Jake Swanson
Purge Start	12:50	**Gallons Purged**	2.11	**Replicate/ Code No.**		**Color**	Clear
Purge End	13:30						

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

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

Comments: None

Well Casing Volume Conversion

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

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: NA Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

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

Project Number	30052922	**Well ID**	YGWA-2I			**Date**	02/07/2023
Project Location	AP-2		**Weather(°F)**	61.7 degrees F and Clear. The wind is blowing S/SE at 6.9 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	53.45	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	46.07	**Total Depth (ft-bmp)**	63.75	**Water Column(ft)**	17.68	**Gallons in Well**	2.87
MP Elevation	866.25	**Pump Intake (ft-bmp)**	60	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	15:40	**Well Volumes Purged**	0.53	**Sample ID**	YAT-YGWA-2I	**Sampled by**	Jake Swanson
Purge Start	14:46	**Gallons Purged**	1.52	**Replicate/ Code No.**		**Color**	Clear
Purge End	15:31						

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

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

Comments: Bump check before purge begins

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

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

Well Information

Well Location:

Well Locked at Arrival:

Condition of Well:

Well Locked at Departure:

Well Completion: NA

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

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

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

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

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

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

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

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

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

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

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

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

Comments: None

Well Casing Volume Conversion

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

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: NA Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

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

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

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

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

Comments: None

Well Casing Volume Conversion

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

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: NA Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

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

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

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

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

Comments: None

Well Casing Volume Conversion

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

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Groundwater Sampling Form

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

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

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

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

Comments: Missing labels, some handwritten

Well Casing Volume Conversion

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

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

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

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

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

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

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

Well Casing Volume Conversion

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

Well Information

Well Location:

Well Locked at Arrival:

Condition of Well:

Well Locked at Departure:

Well Completion: NA

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

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

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

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

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

Comments: Completed mid-day calibration.

Well Casing Volume Conversion

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

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

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

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

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

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

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

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

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

Well Information

Well Location:

Well Locked at Arrival:

Condition of Well:

Well Locked at Departure:

Well Completion: NA

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

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

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

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

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

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

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

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

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

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

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

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

Comments: None

Well Casing Volume Conversion

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

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

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

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

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

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

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

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

Well Information

Well Location:

Well Locked at Arrival:

Condition of Well:

Well Locked at Departure:

Well Completion: NA

Key Number To Well: NA

Groundwater Sampling Form

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

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

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

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

Comments: None

Well Casing Volume Conversion

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

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

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

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

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

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

Comments: None.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

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

Well Information

Well Location:

Well Locked at Arrival:

Condition of Well:

Well Locked at Departure:

Well Completion: NA

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

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

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

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

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

Comments: None.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

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

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

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

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

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

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

Comments: Good

Well Casing Volume Conversion

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

Well Information

Well Location:

Well Locked at Arrival:

Condition of Well:

Well Locked at Departure:

Well Completion: NA

Key Number To Well: NA

Groundwater Sampling Form

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

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

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

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

Comments: Good

Well Casing Volume Conversion

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

Well Information

Well Location:

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

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-30I
Person Gauging:	Jake Swanson
Date:	2/6/2023
Time:	01:38:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	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

Project Location:	AP-2
Permit Number:	
Well ID:	PZ-3S
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	10:55:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	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

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-3I
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	10:56:00

			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

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-3D
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	10:57:00

			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

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-2I
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	11:06:00

			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

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-1D
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	11:10:00

			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

Project Location:	AP-2
Permit Number:	
Well ID:	PZ-1S
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	11:11:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	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

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-1I
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	11:12:00

			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

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-14S
Person Gauging:	Jake Swanson
Date:	2/6/2023
Time:	02:12:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	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

Project Location:	Gypsum Landfill
Permit Number:	
Well ID:	GWA-2
Person Gauging:	Jake Swanson
Date:	2/6/2023
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:				
	Well ID is faded and bollards needs painting				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS

Project Location:	AP-1
Permit Number:	
Well ID:	YGWA-47
Person Gauging:	Jake Swanson
Date:	2/6/2023
Time:	11:02:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	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

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YGWA-39
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	12:35:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	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

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-21I
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	09:29:00

			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

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YGWA-40
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	11:51:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	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

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-17S
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	10:41:00

			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

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-18I
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	10:18:00

			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

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-20S
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	09:22:00

			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

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-5D
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	09:38:00

			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

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-5I
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	09:40:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	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

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-18S
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	10:17:00

			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:				

August 2023

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/15/2023

Calibrated By: Kim Lapszynski

Field Conditions:Sunny Hot

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	867242
Turbidity Meter	Geotech	22043965

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 7:50			**Time Finish 8:40**		
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	25.09	± 0.1	GWMP
pH (SU)	7.00	7.00	24.87	± 0.1	GWMP
pH (SU)	10.00	10.00	25.00	± 0.1	GWMP
D.O. (%)	N/A	100.00	26.86	± 10%	NA
ORP (mV)	229.0	229	26.86	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.8	± 10% of standard	EPA 2023
	100	111		
	800	783		
	<0.10	0.02		

Calibration Check					
Time Start 12:45			**Time Finish 13:15**		
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	25.09	± 0.1	GWMP
pH (SU)	7.00	7	24.87	± 0.1	GWMP
pH (SU)	10.00	10	25.00	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.1	± 10% of standard	EPA 2023
	100	111		
	800	804		
	<0.10	0.02		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/15/2023

Calibrated By: David Prouty

Field Conditions:Sunny Hot

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	661797
Turbidity Meter	Geotech	22043966

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 8:45**		
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	21.80	± 0.1	GWMP
pH (SU)	7.00	7.02	21.61	± 0.1	GWMP
pH (SU)	10.00	10.05	21.77	± 0.1	GWMP
D.O. (%)	N/A	100.00	23.38	± 10%	NA
ORP (mV)	229.0	229	22.35	± 10	EPA 2023

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

Calibration Check					
Time Start 12:30			**Time Finish 13:12**		
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	26.96	± 0.1	GWMP
pH (SU)	7.00	7	26.94	± 0.1	GWMP
pH (SU)	10.00	9.95	27.04	± 0.1	GWMP

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

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/15/2023

Calibrated By: Jake Swanson

Field Conditions:Sunny Hot

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	613192
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 7:45			**Time Finish 8:30**		
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	21.34	± 0.1	GWMP
pH (SU)	7.00	7.02	21.36	± 0.1	GWMP
pH (SU)	10.00	10.05	21.82	± 0.1	GWMP
D.O. (%)	N/A	100.00	23.76	± 10%	NA
ORP (mV)	229.0	229	22.02	± 10	EPA 2023

	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 12:20			**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	4.01	30.55	± 0.1	GWMP
pH (SU)	7.00	6.99	31.19	± 0.1	GWMP
pH (SU)	10.00	9.95	30.94	± 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: 8/15/2023

Calibrated By: Jessica Ware

Field Conditions:Sunny Hot

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	887121
Turbidity Meter	Geotech	21063282

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 8:45**		
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	21.68	± 0.1	GWMP
pH (SU)	7.00	7.02	21.76	± 0.1	GWMP
pH (SU)	10.00	10.05	22.21	± 0.1	GWMP
D.O. (%)	N/A	100.00	22.45	± 10%	NA
ORP (mV)	229.0	229	23.34	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.2	± 10% of standard	EPA 2023
	100	100		
	800	801		
	<0.10	0.02		

Calibration Check					
Time Start 12:30			**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	28.19	± 0.1	GWMP
pH (SU)	7.00	7	28.25	± 0.1	GWMP
pH (SU)	10.00	9.95	28.83	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.8	± 10% of standard	EPA 2023
	100	101		
	800	806		
	<0.10	0.02		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/16/2023

Calibrated By: Mark Chest

Field Conditions:Sunny Hot

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	663604
Turbidity Meter	Geotech	U112809X

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 9:30			**Time Finish 10:20**		
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	23.26	± 0.1	GWMP
pH (SU)	7.00	7.00	23.26	± 0.1	GWMP
pH (SU)	10.00	10.00	23.45	± 0.1	GWMP
D.O. (%)	N/A	100.00	23.92	± 10%	NA
ORP (mV)	229.0	231.1	24.47	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.8	± 10% of standard	EPA 2023
	100	96.4		
	800	789		
	<0.10	0.02		

Calibration Check					
Time Start 12:20			**Time Finish 12:40**		
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	26.46	± 0.1	GWMP
pH (SU)	7.00	7	27.27	± 0.1	GWMP
pH (SU)	10.00	10	26.31	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.4	± 10% of standard	EPA 2023
	100	99.1		
	800	783		
	<0.10	0.02		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/16/2023

Calibrated By: Jessica Ware

Field Conditions:Sunny Hot

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	613224
Turbidity Meter	Geotech	21063282

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 9:15**			
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	24.25	± 0.1	GWMP
pH (SU)	7.00	7.00	25.34	± 0.1	GWMP
pH (SU)	10.00	10.00	24.54	± 0.1	GWMP
D.O. (%)	N/A	100.00	23.15	± 10%	NA
ORP (mV)	229.0	229	25.38	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.8	± 10% of standard	EPA 2023
	100	100		
	800	806		
	<0.10	0.02		

Calibration Check					
Time Start 17:00		**Time Finish 17:20**			
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	4.01	28.79	± 0.1	GWMP
pH (SU)	7.00	6.99	28.31	± 0.1	GWMP
pH (SU)	10.00	9.95	28.55	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.3	± 10% of standard	EPA 2023
	100	102		
	800	800		
	<0.10	0.02		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/16/2023

Calibrated By: Kim Lapszynski

Field Conditions:Sunny Hot

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	867242
Turbidity Meter	Geotech	22043965

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 9:15**			
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	22.08	± 0.1	GWMP
pH (SU)	7.00	7.02	22.15	± 0.1	GWMP
pH (SU)	10.00	10.05	22.03	± 0.1	GWMP
D.O. (%)	N/A	100.00	22.55	± 10%	NA
ORP (mV)	229.0	229	21.94	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.9	± 10% of standard	EPA 2023
	100	97.6		
	800	796		
	<0.10	0.02		

Calibration Check					
Time Start 13:31		**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	4.01	30.44	± 0.1	GWMP
pH (SU)	7.00	6.99	31.78	± 0.1	GWMP
pH (SU)	10.00	9.95	29.63	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	18	± 10% of standard	EPA 2023
	100	97.6		
	800	797		
	<0.10	0.02		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/16/2023

Calibrated By: David Prouty

Field Conditions:Sunny Hot

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	661797
Turbidity Meter	Geotech	22043966

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	23.32	± 0.1	GWMP
pH (SU)	7.00	7.00	23.11	± 0.1	GWMP
pH (SU)	10.00	10.00	23.25	± 0.1	GWMP
D.O. (%)	N/A	100.00	22.98	± 10%	NA
ORP (mV)	229.0	230	24.32	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.9	± 10% of standard	EPA 2023
	100	100		
	800	--		
	<0.10	0.1		

Calibration Check					
Time Start 13:30		**Time Finish 13:45**			
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	25.87	± 0.1	GWMP
pH (SU)	7.00	7	26.03	± 0.1	GWMP
pH (SU)	10.00	10	26.21	± 0.1	GWMP

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

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/16/2023

Calibrated By: Jake Swanson

Field Conditions:Sunny Hot

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	613192
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 0:00			**Time Finish 9:15**		
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	21.66	± 0.1	GWMP
pH (SU)	7.00	7.02	20.82	± 0.1	GWMP
pH (SU)	10.00	10.05	21.45	± 0.1	GWMP
D.O. (%)	N/A	100.00	24.35	± 10%	NA
ORP (mV)	229.0	229	21.19	± 10	EPA 2023

	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 13:31			**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	4.02	34.01	± 0.1	GWMP
pH (SU)	7.00	6.99	32	± 0.1	GWMP
pH (SU)	10.00	9.91	35.23	± 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: 8/17/2023

Calibrated By: David Prouty

Field Conditions:Sunny Hot

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	661797
Turbidity Meter	Geotech	22043966

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 8:40			**Time Finish 9:15**		
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	26.19	± 0.1	GWMP
pH (SU)	7.00	7.00	23.33	± 0.1	GWMP
pH (SU)	10.00	10.00	25.73	± 0.1	GWMP
D.O. (%)	N/A	100.00	24.73	± 10%	NA
ORP (mV)	229.0	226.9	26.66	± 10	EPA 2023

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

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% of standard	EPA 2023
	--	--		
	--	--		
	--	--		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/17/2023

Calibrated By: Kim Lapszynski

Field Conditions:Sunny Hot

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	867242
Turbidity Meter	Geotech	22043965

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 8:43			**Time Finish 9:15**		
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	23.53	± 0.1	GWMP
pH (SU)	7.00	7.00	23.55	± 0.1	GWMP
pH (SU)	10.00	10.00	23.50	± 0.1	GWMP
D.O. (%)	N/A	100.00	23.35	± 10%	NA
ORP (mV)	229.0	229	22.96	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	21	± 10% of standard	EPA 2023
	100	100		
	800	785		
	<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)	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% of standard	EPA 2023
	--	--		
	--	--		
	--	--		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/17/2023

Calibrated By: Jake Swanson

Field Conditions:Sunny Hot

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	613192
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 8:43			**Time Finish 9:15**		
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	24.16	± 0.1	GWMP
pH (SU)	7.00	7.00	23.24	± 0.1	GWMP
pH (SU)	10.00	10.00	23.75	± 0.1	GWMP
D.O. (%)	N/A	100.00	24.65	± 10%	NA
ORP (mV)	229.0	229	23.50	± 10	EPA 2023

	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 13:00			**Time Finish 13:30**		
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	4.01	29.87	± 0.1	GWMP
pH (SU)	7.00	6.99	30.47	± 0.1	GWMP
pH (SU)	10.00	9.95	31.14	± 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: 8/17/2023

Calibrated By: Jessica Ware

Field Conditions:Sunny Hot

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	613224
Turbidity Meter	Geotech	21063282

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 8:40		**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	22.83	± 0.1	GWMP
pH (SU)	7.00	7.00	22.64	± 0.1	GWMP
pH (SU)	10.00	10.00	23.10	± 0.1	GWMP
D.O. (%)	N/A	100.00	27.08	± 10%	NA
ORP (mV)	229.0	229	23.90	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.9	± 10% of standard	EPA 2023
	100	100		
	800	807		
	<0.10	0.04		

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% of standard	EPA 2023
	--	--		
	--	--		
	--	--		

Notes:

ARCADIS Design & Consultancy for natural and built assets

Groundwater Gauging Log

Client:	Georgia Power
Project Location:	AMA R6 CCR Landfill
Date:	8/14/2023
Sampler:	Kim Lapszynski
Equipment:	water probe

Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
YGWC-36A	8/14/2023	13:49:00	10.87	51.20	--
PZ-52D	8/14/2023	14:11:00	6.15	92.00	--
PZ-53D	8/14/2023	14:13:00	4.98	160.00	--
PZ-37	8/14/2023	14:16:00	10.99	49.78	--
YGWC-38	8/14/2023	14:59:00	29.68	50.59	--
YAMW-5	8/14/2023	15:12:00	15.12	90.34	--

ARCADIS Design & Consultancy for natural and built assets

Groundwater Gauging Log

Client:	Georgia Power
Project Location:	AMA R6 CCR Landfill
Date:	8/14/2023
Sampler:	Mark Chest
Equipment:	water probe

Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
YGWC-50	8/14/2023	14:03:00	15.24	39.28	--
YGWC-43	8/14/2023	14:03:00	24.28	79.66	--
PZ-51	8/14/2023	14:15:00	9.52	36.00	--
YAMW-3	8/14/2023	14:27:00	36.69	91.44	--
YGWC-42	8/14/2023	14:33:00	28.80	59.76	--

ARCADIS Design & Consultancy for natural and built assets

Groundwater Gauging Log

Client:	Georgia Power
Project Location:	AMA R6 CCR Landfill
Date:	8/14/2023
Sampler:	Jake Swanson
Equipment:	water probe

Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
YAMW-2	8/14/2023	14:40:00	23.70	46.48	--
YAMW-4	8/14/2023	14:54:00	32.09	96.55	--
YGWC-41	8/14/2023	14:57:00	28.30	67.32	--

ARCADIS Design & Consultancy for natural and built assets

Groundwater Gauging Log

Client:	Georgia Power
Project Location:	AMA AP-3, A, B and B'
Date:	8/14/2023
Sampler:	Jessica Ware
Equipment:	water probe

Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
PZ-35	8/14/2023	13:31:00	11.78	50.01	--

Groundwater Gauging Log

Client:	Georgia Power
Project Location:	AMA-R6, AP-3, A, B and B'
Date:	8/14/2023
Sampler:	Kim Lapszynski
Equipment:	water probe

Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
YGWA-6I	8/14/2023	9:49:00	21.07	69.03	--
YGWA-6S	8/14/2023	10:01:00	20.78	39.87	--
PZ-06D	8/14/2023	10:03:00	23.62	134.02	--
PZ-05S	8/14/2023	10:50:00	20.59	41.94	--
PZ-04S	8/14/2023	11:03:00	25.67	33.33	--
PZ-48	8/14/2023	12:30:00	21.84	58.73	--
YGWC-49	8/14/2023	12:33:00	32.40	78.53	--
PZ-24IB	8/14/2023	13:00:00	27.81	73.42	--
YGWC-24SB	8/14/2023	13:02:00	27.34	57.79	--
YAMW-1	8/14/2023	13:07:00	11.61	69.93	--
PZ-37D	8/14/2023	14:15:00	3.36	202.44	--
YGWC-23S	8/14/2023	14:36:00	16.81	38.91	--
PZ-35	8/14/2023	13:31:00	11.78	50.01	--

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 8/16/2023 3:17:47 PM +00:00

Project Number	30052922	**Well ID**	YAMW-1			**Date**	8/16/2023
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	74.7 degrees F and Clear. The wind is blowing N 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)	11.61	**Total Depth (ft-bmp)**	69.93	**Water Column(ft)**	58.32	**Gallons in Well**	9.48
MP Elevation	743.83	**Pump Intake (ft-bmp)**	64.6	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	11:55	**Well Volumes Purged**	0.14	**Sample ID**	YAT-YAMW-1	**Sampled by**	Mark Chest
Purge Start	10:27	**Gallons Purged**	1.32	**Replicate/ Code No.**	YAT—AMA-R6-FD-1	**Color**	Clear
Purge End	10:52						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:27:00	00:00	200	11.61	5.97	480.41	0.02	2.96	23.70	209.70
10:32:00	05:00	200	12.43	5.68	541.15	4.64	2.10	22.10	231.28
10:37:00	10:00	200	12.55	5.70	515.06	3.26	1.72	20.70	241.07
10:42:00	15:00	200	12.63	5.78	469.45	1.26	1.66	20.70	239.69
10:47:00	20:00	200	12.72	5.81	459.14	0.40	1.70	20.50	240.55
10:52:00	25:00	200	12.72	5.80	461.75	0.38	1.80	20.60	241.08

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

Comments: 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

ARCADIS Design & Consultancy for natural and built assets

Updated : 8/17/2023 5:11:04 PM +00:00

Project Number	30143622	**Well ID**	YAMW-2			**Date**	8/17/2023
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	80 °F, Sunny, winds at 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)	23.84	**Total Depth (ft-bmp)**	46.48	**Water Column(ft)**	22.64	**Gallons in Well**	3.68
MP Elevation	781.04	**Pump Intake (ft-bmp)**	41.44	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:30	**Well Volumes Purged**	0.36	**Sample ID**	YAT-YAMW-2	**Sampled by**	Jake Swanson
Purge Start	23:53	**Gallons Purged**	1.32	**Replicate/ Code No.**		**Color**	Clear
Purge End	12:18						

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)
11:53	0	200	23.84	5.46	55.19	3.61	5.3	20.57	177.8
11:58	5	200	23.95	4.81	56.95	1.82	3.64	18.76	227.3
12:03	10	200	23.95	4.65	57.14	0.56	3.59	18.76	242.8
12:08	15	200	23.95	4.73	57.65	0.74	3.59	19.14	250.1
12:13	20	200	24.00	4.77	57.43	0.39	3.67	18.66	247.6
12:18	25	200	24.00	4.77	57.43	0.04	3.73	18.92	251.4

Constituent Sampled	Container	Number	Preservative
ChlorideSulfate	250 mL Plastic	1	None
MercuryMetals	250 mL Plastic	1	HNO3
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

Updated : 8/17/2023 1:38:04 PM +00:00

Project Number	30143622	**Well ID**	YAMW-3			**Date**	8/16/2023
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	79.3 degrees F and Clear. The wind is blowing N at 3.4 mph.			
Measuring Pt. Description	Top of Outer Casing	**Screen Setting (ft-bmp)**	81.45	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	36.77	**Total Depth (ft-bmp)**	91.44	**Water Column(ft)**	54.67	**Gallons in Well**	8.88
MP Elevation	796.05	**Pump Intake (ft-bmp)**	87	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	16:40	**Well Volumes Purged**	0.45	**Sample ID**	YAT-YAMW-3	**Sampled by**	Jessica Ware
Purge Start	13:29	**Gallons Purged**	3.98	**Replicate/ Code No.**		**Color**	Clear
Purge End	16:39						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:29:00	00:00	100	38.51	5.79	665.84	60.20	2.20	22.00	167.85
13:34:00	05:00	100	38.8	5.79	646.14	49.20	2.18	21.90	173.82
13:37:00	08:08	100	38.92	5.78	657.85	48.80	2.20	21.80	177.95
13:42:00	13:08	100	39.14	5.78	654.30	43.20	2.24	21.80	181.55
13:47:00	18:08	100	39.4	5.78	653.49	39.10	2.23	21.60	185.35
13:52:00	23:08	100	39.63	5.78	646.78	34.50	2.20	21.60	193.21
13:57:00	28:08	100	39.79	5.78	666.61	32.40	2.29	21.30	197.40
14:02:00	33:08	100	39.99	5.79	655.74	31.40	2.20	21.60	194.29
14:07:00	38:08	100	40.19	5.80	652.85	31.80	2.10	21.50	187.24
14:12:00	43:08	100	40.3	5.81	653.45	27.30	2.00	21.30	185.20
14:17:00	48:08	100	40.44	5.81	650.02	25.20	2.04	21.60	186.75
14:22:00	53:08	100	40.62	5.81	642.79	23.70	1.88	21.40	184.41
14:27:00	58:08	100	40.74	5.82	624.82	22.50	1.90	21.30	181.49
14:32:00	03:08	100	40.89	5.83	618.05	20.30	1.85	21.10	180.16
14:37:00	08:08	100	41.05	5.83	613.97	21.10	1.91	20.70	180.22
14:42:00	13:08	100	41.22	5.83	605.39	20.90	1.87	20.70	179.71
14:47:00	18:08	100	41.43	5.84	606.60	23.40	1.73	20.50	174.63
14:52:00	23:08	100	41.56	5.84	593.30	24.10	1.68	20.50	171.23
14:57:00	28:08	100	41.71	5.85	589.07	20.10	1.68	20.60	169.63
15:02:00	33:08	100	41.88	5.85	612.48	18.10	1.62	20.70	167.36
15:07:00	38:08	100	41.97	5.86	599.41	19.10	1.57	20.40	164.15
15:12:00	43:08	50	41.96	5.86	584.13	15.40	1.44	20.90	160.31
15:17:00	48:08	50	41.93	5.87	588.84	12.50	1.38	20.90	155.39
15:22:00	53:08	50	41.97	5.88	577.29	10.10	1.30	21.40	149.36
15:27:00	58:08	50	41.96	5.89	617.95	8.40	1.37	21.20	146.15
15:32:00	03:08	50	41.95	5.90	610.08	7.33	1.29	21.40	142.93

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

15:37:00	08:08	50	41.93	5.91	630.60	7.99	1.23	21.80	140.46
15:42:00	13:08	50	41.91	5.91	635.37	6.58	1.22	22.10	137.34
15:47:00	18:08	50	41.85	5.91	618.75	6.45	1.18	22.40	134.77
15:52:00	23:08	50	41.89	5.92	609.33	6.12	1.15	21.80	132.80
15:57:00	28:08	50	41.87	5.92	628.29	5.88	1.19	21.70	132.48
16:02:00	33:08	50	41.96	5.92	629.01	6.65	1.15	21.50	131.91
16:07:00	38:08	50	41.97	5.92	641.76	6.53	1.12	21.60	130.98
16:12:00	43:08	50	41.94	5.92	626.39	5.55	1.06	21.80	129.73
16:17:00	48:08	50	41.83	5.92	626.68	5.47	1.04	22.70	127.66
16:22:00	53:08	50	41.81	5.92	629.50	5.69	1.04	22.70	125.20
16:27:00	58:08	50	41.76	5.92	628.40	3.88	1.05	22.60	122.69
16:32:00	03:08	50	41.72	5.91	626.86	4.86	1.06	22.50	121.55
16:37:00	08:08	50	41.71	5.92	632.16	3.61	1.04	22.40	121.74

Constituent Sampled	Container	Number	Preservative
Anions	250 mL Plastic	1	None
App III metals	250 mL Plastic	1	HNO3
App IV metalsMercury	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments: Ok to purge at 50mL/min from G. Gay at 15:07

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 : 8/17/2023 11:21:31 AM +00:00

Project Number	30143623	**Well ID**	YAMW-4			**Date**	8/16/2023
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	82.9 degrees F and Partly Cloudy. The wind is blowing W 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)	32.12	**Total Depth (ft-bmp)**	96.55	**Water Column(ft)**	64.43	**Gallons in Well**	10.47
MP Elevation	805.59	**Pump Intake (ft-bmp)**	91.55	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	16:48	**Well Volumes Purged**	0.11	**Sample ID**	YAT-YAMW-4	**Sampled by**	Kim Lapszynski
Purge Start	15:58	**Gallons Purged**	1.19	**Replicate/ Code No.**		**Color**	Clear
Purge End	16:44						

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)
15:58:00	00:00	150	32.12	6.42	512.79	0.02	8.61	28.90	199.90
16:03:00	05:00	150	33.46	6.02	517.87	1.67	2.66	21.50	199.05
16:08:00	10:00	150	34.34	5.95	517.76	1.63	0.72	21.10	204.09
16:13:00	15:00	75	34.62	5.94	518.12	0.34	0.64	22.50	203.76
16:18:00	20:00	75	35.15	5.96	514.71	0.17	0.60	21.40	203.76
16:23:00	25:00	75	35.45	5.96	513.94	0.02	0.71	21.60	202.39
16:28:00	30:00	75	35.82	5.95	513.32	0.02	0.73	21.70	201.67
16:33:00	35:00	75	36	5.95	513.39	0.02	0.76	21.70	200.76
16:38:00	40:00	75	36.19	5.95	513.91	0.02	0.79	21.50	198.34
16:43:00	45:00	75	36.27	5.94	514.29	0.02	0.81	22.00	196.98

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

Comments: Collected YAT-AMA-R6-EB-2 @1730, 8/16/23

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 : 8/16/2023 5:26:27 PM +00:00

Project Number	30143623	**Well ID**	YAMW-5			**Date**	8/16/2023
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	79.3 degrees F and Clear. The wind is blowing N 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)	15.09	**Total Depth (ft-bmp)**	90.34	**Water Column(ft)**	75.25	**Gallons in Well**	12.23
MP Elevation	788.9	**Pump Intake (ft-bmp)**	86.3	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	13:08	**Well Volumes Purged**	0.08	**Sample ID**	YAT-YAMW-5	**Sampled by**	Kim Lapszynski
Purge Start	12:39	**Gallons Purged**	0.99	**Replicate/ Code No.**		**Color**	Clear
Purge End	13:05						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
12:39:00	00:00	150	15.09	6.22	800.33	0.57	7.24	26.50	164.86
12:44:00	05:00	150	15.79	5.35	867.06	0.02	1.93	20.10	182.72
12:49:00	10:00	150	16.04	5.39	845.62	0.02	1.64	19.40	187.86
12:54:00	15:00	150	16.23	5.40	822.89	0.02	1.66	19.60	189.38
12:59:00	20:00	150	16.38	5.41	818.52	0.02	1.69	19.40	190.64
13:04:00	25:00	150	16.48	5.41	816.60	0.02	1.69	19.50	190.75

Constituent Sampled	Container	Number	Preservative
App III metals	250 mL Plastic	1	HNO3
App IV Metals/Mercury	250 mL Plastic	1	HNO3
F, SO4, Cl	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 : 8/16/2023 4:27:05 PM +00:00

Project Number	30052922	**Well ID**	PZ-35			**Date**	8/16/2023
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	79.3 degrees F and Clear. The wind is blowing N 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)	11.81	**Total Depth (ft-bmp)**	50.01	**Water Column(ft)**	38.20	**Gallons in Well**	6.21
MP Elevation	743.81	**Pump Intake (ft-bmp)**	45	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:04	**Well Volumes Purged**	0.17	**Sample ID**	YAT-PZ-35	**Sampled by**	Mark Chest
Purge Start	11:41	**Gallons Purged**	1.06	**Replicate/ Code No.**		**Color**	Clear
Purge End	12:01						

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)
11:41:00	00:00	200	11.81	6.15	237.93	0.90	5.29	27.20	189.31
11:46:00	05:00	200	11.85	5.34	254.80	0.53	4.29	22.60	257.21
11:51:00	10:00	200	11.88	5.33	257.99	1.68	4.08	22.20	275.58
11:56:00	15:00	200	11.88	5.33	257.19	0.40	4.06	22.10	285.05
12:01:00	20:00	200	11.9	5.34	246.93	0.21	4.11	20.30	294.05

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

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

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

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 8/17/2023 3:45:15 PM +00:00

Project Number	30143622	**Well ID**	PZ-37			**Date**	8/17/2023
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	70 °F, Sunny, winds at 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)	11.03	**Total Depth (ft-bmp)**	49.78	**Water Column(ft)**	38.75	**Gallons in Well**	6.30
MP Elevation	760.78	**Pump Intake (ft-bmp)**	45	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	10:20	**Well Volumes Purged**	0.25	**Sample ID**	YAT-PZ-37	**Sampled by**	Jake Swanson
Purge Start	09:40	**Gallons Purged**	1.59	**Replicate/ Code No.**	YAT-AMA-R6-FD-3	**Color**	Clear
Purge End	10:10						

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)
9:40:00	00:00	200	11.03	5.92	977.70	3.99	3.09	24.00	189.04
9:45:00	05:00	200	11.12	5.57	969.37	1.67	2.88	23.20	202.65
9:50:00	10:00	200	11.14	5.39	961.16	1.35	2.63	21.90	204.99
9:55:00	15:00	200	11.15	5.25	958.37	0.99	2.32	21.80	206.59
10:00:00	20:00	200	11.16	5.18	958.21	1.06	2.30	21.90	209.09
10:05:00	25:00	200	11.18	5.14	959.48	0.78	2.23	22.30	208.89
10:10:00	30:00	200	11.17	5.13	956.48	0.73	2.17	22.30	210.49

Constituent Sampled	Container	Number	Preservative
ChlorideSulfate	250 mL Plastic	1	None
MercuryMetals	250 mL Plastic	1	HNO3
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 : 8/16/2023 10:45:11 PM +00:00

Project Number	30143622	**Well ID**	PZ-37D			**Date**	8/16/2023
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	88 °F, Sunny, winds at 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)	3.3	**Total Depth (ft-bmp)**	202.44	**Water Column(ft)**	199.14	**Gallons in Well**	32.36
MP Elevation	761.12	**Pump Intake (ft-bmp)**	197	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	17:20	**Well Volumes Purged**	0.15	**Sample ID**	YAT-PZ-37D	**Sampled by**	Jake Swanson
Purge Start	15:24	**Gallons Purged**	4.89	**Replicate/ Code No.**		**Color**	Clear
Purge End	17:09						

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)
15:24:00	00:00	250	3.3	7.70	695.84	0.02	0.71	25.20	-226.51
15:29:00	05:00	250	6.05	8.07	1369.88	0.06	0.42	25.00	-226.58
15:34:00	10:00	250	7.11	8.19	1600.07	0.11	0.36	25.00	-216.29
15:39:00	15:00	250	8.71	8.22	1640.51	0.68	0.34	25.20	-210.74
15:44:00	20:00	200	9.04	8.21	1539.24	0.56	0.33	24.80	-213.46
15:49:00	25:00	200	9.35	8.17	1408.73	1.08	0.32	26.70	-217.06
15:54:00	30:00	200	9.75	8.13	1310.35	0.91	0.29	27.00	-221.09
15:59:00	35:00	150	10.13	8.12	1256.45	1.08	0.29	26.80	-222.09
16:04:00	40:00	150	10.2	8.10	1215.04	1.16	0.28	28.40	-223.22
16:09:00	45:00	150	10.28	8.10	1184.16	1.31	0.29	29.40	-222.45
16:14:00	50:00	150	10.38	8.11	1150.62	1.55	0.29	28.30	-222.31
16:19:00	55:00	150	10.47	8.12	1100.92	1.04	0.28	27.90	-223.11
16:24:00	00:00	150	10.62	8.10	1057.06	0.66	0.27	28.10	-224.03
16:29:00	05:00	150	10.68	8.09	1013.36	0.85	0.27	27.90	-225.25
16:34:00	10:00	150	10.79	8.09	972.62	0.99	0.26	27.80	-227.04
16:39:00	15:00	150	10.91	8.08	932.23	0.73	0.25	27.70	-227.46
16:44:00	20:00	150	10.97	8.08	890.68	0.90	0.25	27.60	-227.24
16:49:00	25:00	150	10.99	8.08	863.21	0.84	0.25	27.50	-226.81
16:54:00	30:00	150	11.01	8.07	829.87	0.63	0.25	27.50	-226.53
16:59:00	35:00	150	11.09	8.07	791.70	0.78	0.26	27.00	-225.33
17:04:00	40:00	150	11.16	8.06	759.83	0.72	0.27	26.20	-223.51
17:09:00	45:00	150	11.22	8.05	766.53	0.98	0.27	26.50	-223.06

Constituent Sampled	Container	Number	Preservative
ChlorideSulfate	250 mL Plastic	1	None

Groundwater Sampling Form

Updated : 8/17/2023 1:39:01 PM +00:00

Project Number	30143622	**Well ID**	PZ-51			**Date**	8/16/2023
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	It is Clear. The wind is blowing N at 5.8 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	26.3	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	9.69	**Total Depth (ft-bmp)**	36	**Water Column(ft)**	26.31	**Gallons in Well**	4.28
MP Elevation	744.3	**Pump Intake (ft-bmp)**	32	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	10:47	**Well Volumes Purged**		**Sample ID**	YAT-PZ-51	**Sampled by**	Jessica Ware
Purge Start	10:10	**Gallons Purged**		**Replicate/ Code No.**		**Color**	Clear
Purge End	10:46						

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)
10:10:00	00:00	125	9.69	4.94	743.14	9.44	3.66	20.30	226.12
10:15:00	05:00	125	10.08	4.74	734.76	12.70	2.82	18.90	232.06
10:19:00	09:12	125	10.09	4.68	736.39	10.80	2.79	18.70	240.95
10:24:00	14:12	125	10.13	4.66	735.24	7.18	2.72	18.70	254.21
10:29:00	19:12	125	10.16	4.65	735.55	6.05	2.67	18.70	255.56
10:34:00	24:12	125	10.17	4.66	734.98	4.36	2.64	18.60	254.38
10:39:00	29:12	125	10.14	4.68	734.51	3.51	2.62	18.60	258.04
10:44:00	34:12	125	10.15	4.68	735.40	3.01	2.60	18.60	262.49

Constituent Sampled	Container	Number	Preservative
Anions	250 mL Plastic	1	None
App III metals	250 mL Plastic	1	HNO3
App IV metalsMercury	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

Updated : 8/17/2023 7:03:44 PM +00:00

Project Number	30143622	**Well ID**	PZ-52D			**Date**	8/17/2023
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	80 °F, Sunny, winds at 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)	5.13	**Total Depth (ft-bmp)**	92	**Water Column(ft)**	86.87	**Gallons in Well**	14.12
MP Elevation	762.79	**Pump Intake (ft-bmp)**	87	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	14:20	**Well Volumes Purged**	0.12	**Sample ID**	YAT-PZ-52D	**Sampled by**	Jake Swanson
Purge Start	13:39	**Gallons Purged**	1.72	**Replicate/ Code No.**		**Color**	Clear
Purge End	14:14						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:39:00	00:00	200	5.13	6.25	751.84	30.00	1.72	24.30	-18.88
13:44:00	05:00	200	7.88	5.96	779.89	14.20	0.50	22.70	1.33
13:49:00	10:00	200	8.47	5.71	780.10	9.07	0.36	22.60	-9.46
13:54:00	15:00	200	9.02	5.60	782.59	6.98	0.28	22.90	-16.56
13:59:00	20:00	200	9.7	5.57	783.84	5.54	0.24	23.10	-23.03
14:04:00	25:00	150	10.19	5.56	784.81	3.55	0.24	23.80	-27.81
14:09:00	30:00	150	10.26	5.57	787.78	4.75	0.23	23.90	-27.74
14:14:00	35:00	150	10.48	5.60	784.12	3.83	0.23	24.60	-32.32

Constituent Sampled	Container	Number	Preservative
ChlorideSulfate	250 mL Plastic	1	None
MercuryMetals	250 mL Plastic	1	HNO3
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 : 8/17/2023 1:40:42 PM +00:00

Project Number	30143623	**Well ID**	YGWA-20S			**Date**	8/15/2023
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	83.1 degrees F and Mostly Cloudy. The wind is blowing NW at 4.7 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)	11.5	**Total Depth (ft-bmp)**	29.52	**Water Column(ft)**	18.02	**Gallons in Well**	2.93
MP Elevation	767.12	**Pump Intake (ft-bmp)**	24.5	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:25	**Well Volumes Purged**	0.61	**Sample ID**	YGWA-20S	**Sampled by**	Jessica Ware
Purge Start	11:36	**Gallons Purged**	1.78	**Replicate/ Code No.**		**Color**	Clear
Purge End	12:22						

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)
11:36:00	00:00	200	11.5	6.95	106.05	4.92	5.04	24.60	-1.00
11:41:00	05:00	150	12.02	6.21	55.12	8.80	7.06	19.80	61.55
11:46:00	10:00	125	12.1	6.31	54.89	5.86	7.13	19.20	79.47
11:51:00	15:00	125	12.12	6.51	54.54	2.37	7.13	19.20	86.02
11:56:00	20:00	125	12.13	6.68	54.41	1.78	7.12	18.90	91.18
12:01:00	25:00	125	12.12	6.78	54.33	1.52	7.12	18.90	94.38
12:06:00	30:00	125	12.14	6.86	54.32	1.42	7.06	19.50	97.38
12:11:00	35:00	125	12.15	6.92	54.24	1.35	7.10	19.10	97.76
12:16:00	40:00	125	12.13	6.97	54.09	1.33	7.10	19.10	100.78
12:21:00	45:00	125	12.12	7.00	53.89	1.21	7.01	19.40	104.40

Constituent Sampled	Container	Number	Preservative
Anions	250 mL Plastic	1	None
App III metals	250mL HDPE Plastic	1	HNO3
App IV metalsMercury	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 : 8/16/2023 4:23:18 PM +00:00

Project Number	30143623	**Well ID**	YGWC-23S			**Date**	8/16/2023
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	77.2 degrees F and Clear. The wind is blowing undefined at 0.0 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)	16.77	**Total Depth (ft-bmp)**	38.91	**Water Column(ft)**	22.14	**Gallons in Well**	3.60
MP Elevation	764.91	**Pump Intake (ft-bmp)**	34	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:05	**Well Volumes Purged**	0.66	**Sample ID**	YAT-YGWC-23S	**Sampled by**	Kim Lapszynski
Purge Start	11:16	**Gallons Purged**	2.38	**Replicate/ Code No.**		**Color**	Clear
Purge End	12:01						

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)
11:16:00	00:00	200	16.77	5.84	230.57	0.64	7.43	26.30	193.31
11:21:00	05:00	200	17.3	5.39	229.90	41.80	7.49	19.80	198.07
11:26:00	10:00	200	17.33	5.37	230.89	32.60	7.25	19.80	196.16
11:31:00	15:00	200	17.33	5.35	227.69	25.60	7.13	19.80	195.33
11:36:00	20:00	200	17.33	5.35	226.37	16.70	7.11	19.80	193.98
11:41:00	25:00	200	17.33	5.35	224.71	11.20	7.07	19.70	192.51
11:46:00	30:00	200	17.32	5.36	223.77	7.62	7.03	19.80	191.49
11:51:00	35:00	200	17.33	5.36	224.33	4.85	6.98	20.00	189.99
11:56:00	40:00	200	17.32	5.36	221.93	3.45	6.98	20.00	189.00
12:01:00	45:00	200	17.32	5.36	221.95	2.36	6.98	19.90	187.73

Constituent Sampled	Container	Number	Preservative
App III metals	250 mL Plastic	1	HNO3
App IV Metals/ Mercury	250 mL Plastic	1	HNO3
F, SO4, Cl	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 : 8/16/2023 7:23:17 PM +00:00

Project Number	30052922	**Well ID**	YGWC-24SB			**Date**	8/16/2023
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	80.6 degrees F and Clear. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	47.59	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	27.32	**Total Depth (ft-bmp)**	57.79	**Water Column(ft)**	30.47	**Gallons in Well**	4.95
MP Elevation	764.89	**Pump Intake (ft-bmp)**	52	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	15:03	**Well Volumes Purged**	1.01	**Sample ID**	YAT-YGWC-24SB	**Sampled by**	Mark Chest
Purge Start	13:23	**Gallons Purged**	5.02	**Replicate/ Code No.**		**Color**	Clear
Purge End	15:48						

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)
13:23:00	00:00	200	27.32	5.19	297.21	59.20	8.88	29.30	173.87
13:28:00	05:00	200	28.02	5.45	237.31	48.80	9.07	24.10	219.83
13:33:00	10:00	200	27.98	5.81	208.89	44.20	9.03	23.20	228.84
13:38:00	15:00	200	28.05	5.91	205.04	31.40	8.97	23.30	225.14
13:43:00	20:00	200	28.05	5.97	197.08	19.50	8.87	23.30	222.97
13:48:00	25:00	200	28.05	5.98	188.22	17.20	8.80	23.30	220.62
13:53:00	30:00	200	28.05	6.15	158.41	16.50	8.99	23.40	205.47
13:58:00	35:00	200	28.05	5.88	135.86	15.30	8.77	25.00	204.42
14:03:00	40:00	200	28.05	5.80	132.54	11.50	9.25	22.20	224.76
14:08:00	45:00	200	28.06	5.90	111.38	5.11	9.33	21.50	225.92
14:13:00	50:00	200	28.06	5.95	100.11	4.94	9.27	21.30	230.06
14:18:00	55:00	200	28.07	5.98	95.21	4.28	9.26	21.20	227.09
14:23:00	00:00	200	28.07	5.97	90.84	3.69	9.25	21.20	222.47
14:28:00	05:00	200	28.07	5.91	87.57	2.40	9.25	21.20	220.15
14:33:00	10:00	200	28.07	5.90	83.29	1.49	9.26	21.20	215.87
14:38:00	15:00	200	28.08	5.91	81.55	1.42	9.24	21.20	211.16
14:43:00	20:00	200	28.08	5.89	79.14	0.76	9.25	21.20	208.02
14:48:00	25:00	200	28.08	5.88	77.08	0.51	9.27	21.20	204.90
14:53:00	30:00	200	28.08	5.88	74.85	0.17	9.28	21.10	202.33
14:58:00	35:00	200	28.08	5.89	73.48	0.02	9.28	21.20	197.89

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

Groundwater Sampling Form

Updated : 8/16/2023 9:54:19 PM +00:00

Project Number	30052922	**Well ID**	YGWC-36A			**Date**	8/16/2023
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	81.3 degrees F and Partly Cloudy. The wind is blowing NW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	689.7	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	10.86	**Total Depth (ft-bmp)**	51.2	**Water Column(ft)**	40.34	**Gallons in Well**	6.55
MP Elevation	739.61	**Pump Intake (ft-bmp)**	46	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	17:35	**Well Volumes Purged**	0.35	**Sample ID**	YAT-YGWC-36A	**Sampled by**	Mark Chest
Purge Start	16:56	**Gallons Purged**	2.31	**Replicate/ Code No.**		**Color**	Clear
Purge End	17:31						

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)
16:56:00	00:00	250	10.86	5.17	0.05	0.02	7.09	32.70	225.43
17:01:00	05:00	250	11.2	5.16	0.05	18.10	8.05	25.90	258.89
17:06:00	10:00	250	11.2	5.14	0.06	7.86	8.20	24.30	282.15
17:11:00	15:00	250	11.2	5.13	0.06	1.36	8.35	23.40	263.97
17:16:00	20:00	250	11.2	5.21	0.06	0.02	8.38	23.00	250.15
17:21:00	25:00	250	11.2	5.30	0.06	0.02	8.41	22.70	237.99
17:26:00	30:00	250	11.2	5.34	0.06	0.02	8.42	22.60	231.64
17:31:00	35:00	250	11.2	5.36	0.06	0.02	8.42	22.50	227.13

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

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

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

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 8/16/2023 5:28:11 PM +00:00

Project Number	30143623	**Well ID**	YGWC-38			**Date**	8/16/2023
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	It is Clear. The wind is blowing N at 5.8 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)	29.64	**Total Depth (ft-bmp)**	50.59	**Water Column(ft)**	20.95	**Gallons in Well**	3.40
MP Elevation	799.69	**Pump Intake (ft-bmp)**	45	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	10:20	**Well Volumes Purged**	0.35	**Sample ID**	YAT-YGWC-38	**Sampled by**	Kim Lapszynski
Purge Start	09:48	**Gallons Purged**	1.19	**Replicate/ Code No.**	YAT-AMA-R6-FD-2	**Color**	Clear
Purge End	10:18						

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)
9:48:00	00:00	150	29.64	5.86	596.81	2.34	6.64	19.60	210.18
9:53:00	05:00	150	30.65	4.92	565.42	8.65	3.22	18.70	212.96
9:58:00	10:00	150	30.89	4.83	559.81	9.56	3.24	18.40	213.70
10:03:00	15:00	150	31.02	4.82	558.47	5.01	3.23	18.40	213.24
10:08:00	20:00	150	31.09	4.83	559.55	1.91	3.22	18.50	213.62
10:13:00	25:00	150	31.1	4.83	560.08	0.96	3.22	18.50	214.14
10:18:00	30:00	150	31.12	4.83	560.63	0.42	3.22	18.50	215.05

Constituent Sampled	Container	Number	Preservative
App III metals	250 mL Plastic	2	HNO3
App IV Metals/Mercury	250 mL Plastic	2	HNO3
F, SO4, Cl	250 mL Plastic	2	None
RAD 226/228	1L Plastic	4	HNO3
TDS	500 mL Plastic	2	None

Comments: Collected YAT-AMA-R6-FB-2 @1055, 8/16/23

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 : 8/16/2023 7:17:34 PM +00:00

Project Number	30143623	**Well ID**	YGWC-41			**Date**	8/16/2023
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	82.9 degrees F and Partly Cloudy. The wind is blowing W 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)	28.32	**Total Depth (ft-bmp)**	67.32	**Water Column(ft)**	39.00	**Gallons in Well**	6.34
MP Elevation	803.92	**Pump Intake (ft-bmp)**	62	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	14:55	**Well Volumes Purged**	0.19	**Sample ID**	YAT-YGWC-41	**Sampled by**	Kim Lapszynski
Purge Start	14:16	**Gallons Purged**	1.22	**Replicate/ Code No.**		**Color**	Clear
Purge End	14:52						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:16:00	00:00	125	28.32	6.44	316.41	0.44	8.72	27.70	203.79
14:21:00	05:00	125	28.89	4.97	304.34	0.99	5.25	22.10	206.85
14:26:00	10:00	125	28.82	4.97	294.31	0.82	5.13	23.00	206.08
14:31:00	15:00	100	28.75	4.97	288.31	1.35	4.92	23.50	205.05
14:36:00	20:00	150	28.97	4.98	280.56	2.05	4.64	22.20	206.42
14:41:00	25:00	150	29.15	5.00	284.53	0.02	4.75	20.40	206.20
14:46:00	30:00	150	29.22	5.01	281.38	0.02	4.76	20.50	206.16
14:51:00	35:00	150	29.26	5.01	280.67	0.02	4.76	20.40	204.98

Constituent Sampled	Container	Number	Preservative
App III metals	250 mL Plastic	1	HNO3
App IV Metals/Mercury	250 mL Plastic	1	HNO3
F, SO4, Cl	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 : 8/17/2023 1:38:22 PM +00:00

Project Number	30143622	**Well ID**	YGWC-42			**Date**	8/16/2023
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	83.8 degrees F and Clear. The wind is blowing N/NW at 4.7 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)	28.8	**Total Depth (ft-bmp)**	59.76	**Water Column(ft)**	30.96	**Gallons in Well**	5.03
MP Elevation	797.86	**Pump Intake (ft-bmp)**	55	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	17:59	**Well Volumes Purged**	0.16	**Sample ID**	YAT-YGWC-42	**Sampled by**	Jessica Ware
Purge Start	17:31	**Gallons Purged**	0.79	**Replicate/ Code No.**		**Color**	Clear
Purge End	17:57						

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)
17:31:00	00:00	100	28.8	6.24	1056.25	1.20	7.02	27.40	215.35
17:36:00	05:00	100	30.14	5.58	1029.97	2.22	0.81	20.50	139.89
17:41:00	10:00	100	30.46	5.54	1019.91	2.69	0.85	21.80	112.22
17:46:00	15:00	100	30.69	5.53	1013.11	1.75	0.42	21.50	54.97
17:51:00	20:00	100	30.88	5.53	1013.30	1.79	0.33	21.60	27.07
17:56:00	25:00	100	30.99	5.53	1012.69	2.44	0.31	21.80	9.69

Constituent Sampled	Container	Number	Preservative
Anions	250 mL Plastic	1	None
App III metals	250 mL Plastic	1	HNO3
App IV metalsMercury	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments: Collected YAT-AMA-R6-EB -1 @17:53

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 : 8/29/2023 5:03:05 PM +00:00

Project Number	30143622	**Well ID**	YGWC-43			**Date**	8/16/2023
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	77.2 degrees F and Clear. The wind is blowing undefined at 0.0 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)	24.37	**Total Depth (ft-bmp)**	79.66	**Water Column(ft)**	55.29	**Gallons in Well**	8.98
MP Elevation	744.96	**Pump Intake (ft-bmp)**	75	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	11:58	**Well Volumes Purged**		**Sample ID**	YAT-YGWC-43	**Sampled by**	Jessica Ware
Purge Start	11:34	**Gallons Purged**		**Replicate/ Code No.**		**Color**	Clear
Purge End	11:02						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:34:00	00:00	150	24.37	5.27	419.97	1.65	5.98	22.80	231.66
11:39:00	05:00	150	24.46	5.70	423.08	1.89	0.85	19.80	-81.78
11:44:00	10:00	150	24.49	5.61	426.15	0.99	0.24	19.30	-55.25
11:45:00	11:31	150	24.51	5.60	427.11	0.72	0.20	19.30	-54.73
11:50:00	16:31	150	24.53	5.59	428.49	0.86	0.15	19.10	-63.94
11:55:00	21:31	150	24.54	5.58	430.31	0.02	0.13	19.10	-67.63

Constituent Sampled	Container	Number	Preservative
Anions	250 mL Plastic	1	HNO3
App III metals	250 mL Plastic	1	HNO3
App IV metalsMercury	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 : 8/16/2023 8:34:19 PM +00:00

Project Number	30052922	**Well ID**	YGWC-49			**Date**	8/16/2023
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	82.9 degrees F and Clear. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	68.03	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	32.4	**Total Depth (ft-bmp)**	78.53	**Water Column(ft)**	46.13	**Gallons in Well**	7.50
MP Elevation	782.73	**Pump Intake (ft-bmp)**	73	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	16:18	**Well Volumes Purged**	0.18	**Sample ID**	YAT-YGWC-49	**Sampled by**	Mark Chest
Purge Start	15:56	**Gallons Purged**	1.32	**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	250	32.4	5.55	0.04	0.80	6.90	37.40	199.72
16:01:00	05:00	250	32.8	5.08	0.05	0.82	8.16	28.00	232.07
16:06:00	10:00	250	32.87	4.98	0.05	0.02	8.52	25.40	240.45
16:11:00	15:00	250	32.89	4.97	0.06	0.02	8.68	24.20	295.49
16:16:00	20:00	250	32.89	5.04	0.06	0.02	8.77	23.60	277.03

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

Comments: No

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 : 8/17/2023 5:04:15 PM +00:00

Project Number	30143623	**Well ID**	YGWC-50			**Date**	8/17/2023
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	It is Clear. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	27.98	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	15.28	**Total Depth (ft-bmp)**	39.28	**Water Column(ft)**	24.00	**Gallons in Well**	3.90
MP Elevation	729.78	**Pump Intake (ft-bmp)**	34	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	11:50	**Well Volumes Purged**	0.94	**Sample ID**	YAT-YGWC-50	**Sampled by**	Kim Lapszynski
Purge Start	10:09	**Gallons Purged**	3.67	**Replicate/ Code No.**	YAT-AMA-R6-FB-1	**Color**	Clear
Purge End	11:47						

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)
10:09:00	00:00	200	15.28	5.17	2026.38	98.30	5.66	22.60	198.67
10:14:00	05:00	75	15.44	5.05	2060.72	148.00	0.80	21.20	164.70
10:19:00	10:00	200	15.61	5.04	2023.83	71.40	0.50	19.40	173.62
10:24:00	15:00	200	15.64	5.03	1970.51	41.30	0.39	19.40	178.03
10:29:00	20:00	200	15.64	5.03	1945.77	30.30	0.33	19.40	163.02
10:34:00	25:00	200	15.65	5.02	1944.51	21.30	0.27	19.50	156.80
10:39:00	30:00	200	15.65	5.00	1914.21	14.00	0.23	19.50	162.22
10:44:00	35:00	200	15.65	4.99	1920.67	10.90	0.20	19.40	166.38
10:49:00	40:00	200	15.66	5.01	1893.04	7.30	0.18	19.60	168.85
10:54:00	45:00	200	15.66	4.98	1879.52	5.68	0.16	19.70	171.25
10:59:00	50:00	200	15.66	4.98	1925.59	4.44	0.15	19.80	180.56
11:04:00	55:00	200	15.66	4.98	1884.54	4.90	0.14	19.70	196.12
11:09:00	00:00	200	15.66	4.96	1845.76	4.33	0.13	19.90	201.49
11:14:00	05:00	50	15.38	4.95	1902.07	2.96	0.13	22.50	197.67
11:19:00	10:00	50	15.36	4.95	1866.79	2.63	0.16	24.40	196.07
11:24:00	15:00	50	15.33	4.95	1884.24	2.38	0.24	25.50	192.70
11:29:00	20:00	50	15.36	4.96	1876.65	2.28	0.25	25.30	188.88
11:34:00	25:00	50	15.36	4.98	1886.12	2.59	0.24	23.50	190.26
11:39:00	30:00	50	15.36	4.99	1892.15	2.08	0.22	23.80	191.10
11:44:00	35:00	50	15.36	5.00	1872.67	3.06	0.21	23.70	190.07

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

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 8/17/2023 5:11:04 PM +00:00

Project Number	30143622	**Well ID**	YAMW-2			**Date**	8/17/2023
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	80 °F, Sunny, winds at 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)	23.84	**Total Depth (ft-bmp)**	46.48	**Water Column(ft)**	22.64	**Gallons in Well**	3.68
MP Elevation	781.04	**Pump Intake (ft-bmp)**	41.44	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:30	**Well Volumes Purged**	0.36	**Sample ID**	YAT-YAMW-2	**Sampled by**	Jake Swanson
Purge Start	23:53	**Gallons Purged**	1.32	**Replicate/ Code No.**		**Color**	Clear
Purge End	12:18						

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)
11:53	0	200	23.84	5.46	55.19	3.61	5.3	20.57	177.8
11:58	5	200	23.95	4.81	56.95	1.82	3.64	18.76	227.3
12:03	10	200	23.95	4.65	57.14	0.56	3.59	18.76	242.8
12:08	15	200	23.95	4.73	57.65	0.74	3.59	19.14	250.1
12:13	20	200	24.00	4.77	57.43	0.39	3.67	18.66	247.6
12:18	25	200	24.00	4.77	57.43	0.04	3.73	18.92	251.4

Constituent Sampled	Container	Number	Preservative
ChlorideSulfate	250 mL Plastic	1	None
MercuryMetals	250 mL Plastic	1	HNO3
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 Gauging Well Inspection Report

ARCADIS

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-6I
Person Gauging:	Kim Lapszynski
Date:	8/14/2023
Time:	09:49:00

			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

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-6S
Person Gauging:	Kim Lapszynski
Date:	8/14/2023
Time:	10:01:00

			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:				
	Ants in stainless steel protective casing.				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	PZ-06D
Person Gauging:	Kim Lapszynski
Date:	8/14/2023
Time:	10:03:00

			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

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-20S
Person Gauging:	Kim Lapszynski
Date:	8/14/2023
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:				
	Well area and path to well needs to be cleared of vegetation.				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-21I
Person Gauging:	Kim Lapszynski
Date:	8/14/2023
Time:	10:33:00

			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:				
	Well area needs to be cleared of vegetation.				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-5D
Person Gauging:	Kim Lapszynski
Date:	8/14/2023
Time:	10:47:00

			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

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-5I
Person Gauging:	Kim Lapszynski
Date:	8/14/2023
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

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	PZ-05S
Person Gauging:	Kim Lapszynski
Date:	8/14/2023
Time:	10:50:00

			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:				
	Well area needs to be cleared of vegetation.				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-4I
Person Gauging:	Kim Lapszynski
Date:	8/14/2023
Time:	11:01:00

			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:				
	Well area needs to be cleared.				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	PZ-04S
Person Gauging:	Kim Lapszynski
Date:	8/14/2023
Time:	11:03:00

			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:				
	Well area needs to be cleared.				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-18I
Person Gauging:	Kim Lapszynski
Date:	8/14/2023
Time:	12:01:00

			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:				
	Need to clear area by well				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-18S
Person Gauging:	Kim Lapszynski
Date:	8/14/2023
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:				
	Need to clear area by well.				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-17S
Person Gauging:	Kim Lapszynski
Date:	8/14/2023
Time:	12:15:00

			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:				
	Need to clear area by well.				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	PZ-48
Person Gauging:	Kim Lapszynski
Date:	8/14/2023
Time:	12:30:00

			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:				
	Area around well needs to be cleared.				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWC-49
Person Gauging:	Kim Lapszynski
Date:	8/14/2023
Time:	12:33:00

			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:				
	Area around well needs to be cleared.				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWC-24SB
Person Gauging:	Kim Lapszynski
Date:	8/14/2023
Time:	13:02:00

			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:				
	Area around well needs to be cleared.				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YAMW-1
Person Gauging:	Kim Lapszynski
Date:	8/14/2023
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:	PZ-35
Person Gauging:	Jessica Ware
Date:	8/14/2023
Time:	13:31:00

			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 R6 CCR Landfill
Permit Number:	
Well ID:	YGWC-36A
Person Gauging:	Kim Lapszynski
Date:	8/14/2023
Time:	13:49:00

			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:				
	Well pad covered in dirt and vegetation.				
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:	Mark Chest
Date:	8/14/2023
Time:	14:03:00

			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:	Mark Chest
Date:	8/14/2023
Time:	14:03:00

			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:				
	Grass needs to be cut				
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:	Kim Lapszynski
Date:	8/14/2023
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 R6 CCR Landfill
Permit Number:	
Well ID:	PZ-53D
Person Gauging:	Kim Lapszynski
Date:	8/14/2023
Time:	14:13:00

			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:	PZ-37D
Person Gauging:	Kim Lapszynski
Date:	8/14/2023
Time:	14:15:00

			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:	Mark Chest
Date:	8/14/2023
Time:	14:15:00

			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:				
	Grass is very 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 R6 CCR Landfill
Permit Number:	
Well ID:	PZ-37
Person Gauging:	Kim Lapszynski
Date:	8/14/2023
Time:	14:16:00

			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:	YAMW-3
Person Gauging:	Mark Chest
Date:	8/14/2023
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:				

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:	Mark Chest
Date:	8/14/2023
Time:	14:33:00

			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:	Kim Lapszynski
Date:	8/14/2023
Time:	14:36:00

			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:				
	Area around well needs to be cleared of vegetation.				
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:	Jake Swanson
Date:	8/14/2023
Time:	14:40:00

			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:				
	Grass needs to be cut				
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:	Jake Swanson
Date:	8/14/2023
Time:	14:54:00

			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:				
	Grass needs to be cut				
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:	Jake Swanson
Date:	8/14/2023
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:				
	Grass needs to be cut				
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:	Kim Lapszynski
Date:	8/14/2023
Time:	14:59:00

			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:				
	Need to clear area around 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 R6 CCR Landfill
Permit Number:	
Well ID:	YAMW-5
Person Gauging:	Kim Lapszynski
Date:	8/14/2023
Time:	15:12:00

			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:				
	Need to clear area around 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 R6 CCR Landfill
Permit Number:	
Well ID:	YGWA-39
Person Gauging:	Kim Lapszynski
Date:	8/14/2023
Time:	15:32:00

			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:				
	Area around well needs to be cleared.				
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:	Kim Lapszynski
Date:	8/14/2023
Time:	15:38:00

			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:				
	Area around well needs to be cleared.				
8	Date by when corrective actions are needed:				

Upgradient

ARCADIS

Groundwater Gauging Log

Client:	Georgia Power
Project Location:	AP-3, AMA R6, AP-1, AP-2, Gypsum
Date:	8/14/2023
Sampler:	Mark Chest, Jake Swanson, Kim Lapszunski, Jessica Ware
Equipment:	water probe

Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
GWA-2	8/14/2023	10:33	36.83	52.13	--
YGWA-14S	8/14/2023	10:23	18.53	34.96	--
YGWA-17S	8/14/2023	12:15	14.38	39.85	--
YGWA-18I	8/14/2023	12:01	24.90	79.97	--
YGWA-18S	8/14/2023	12:05	21.97	39.97	--
YGWA-1D	8/14/2023	09:36	49.55	128.85	--
YGWA-1I	8/14/2023	09:56	37.23	53.60	--
YGWA-20S	8/14/2023	10:23	11.54	29.52	--
YGWA-21I	8/14/2023	10:33	31.80	79.90	--
YGWA-2I	8/14/2023	10:01	44.76	63.75	--
YGWA-30I	8/14/2023	10:37	42.42	59.48	--
YGWA-39	8/14/2023	15:32	17.61	68.59	--
YGWA-3D	8/14/2023	10:10	31.49	134.18	--
YGWA-3I	8/14/2023	10:08	53.07	59.05	--
YGWA-40	8/14/2023	15:38	23.70	48.23	--
YGWA-47	8/14/2023	12:15	33.81	59.19	--
YGWA-4I	8/14/2023	11:01	24.27	48.81	--
YGWA-5D	8/14/2023	10:47	20.89	129.13	--
YGWA-5I	8/14/2023	10:48	20.58	58.94	--

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 8/15/2023 2:05:48 PM +00:00

Project Number	30052922	**Well ID**	YGWA-47			**Date**	8/15/2023
Project Location	AP-1		**Weather(°F)**	77.0 degrees F and Clear. The wind is blowing W at 4.7 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)	33.82	**Total Depth (ft-bmp)**	59.19	**Water Column(ft)**	25.37	**Gallons in Well**	4.12
MP Elevation	758.22	**Pump Intake (ft-bmp)**	54	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	09:43	**Well Volumes Purged**	0.29	**Sample ID**	YGWA-47	**Sampled by**	Mark Chest
Purge Start	09:20	**Gallons Purged**	1.19	**Replicate/ Code No.**		**Color**	Clear
Purge End	09:40						

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)
9:20:00	00:00	225	33.82	5.53	217.42	0.25	4.61	18.40	226.72
9:25:00	05:00	225	34.75	5.60	218.91	0.02	3.15	19.00	246.92
9:30:00	10:00	225	34.75	5.65	219.03	0.03	3.12	19.00	255.57
9:35:00	15:00	225	34.74	5.65	219.51	0.03	3.06	19.10	262.66
9:40:00	20:00	225	34.74	5.69	220.80	0.02	3.05	19.00	265.45

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

Comments: 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: _____

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 : 8/15/2023 4:50:18 PM +00:00

Project Number	30143622	**Well ID**	GWA-2			**Date**	8/15/2023
Project Location	Gypsum Landfill		**Weather(°F)**	Sunny and clear 78 F °F, Sunny, winds at mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	42.1	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	36.81	**Total Depth (ft-bmp)**	52.13	**Water Column(ft)**	15.32	**Gallons in Well**	2.49
MP Elevation	805.62	**Pump Intake (ft-bmp)**	47	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	10:20	**Well Volumes Purged**	0.65	**Sample ID**	GWA-2	**Sampled by**	Jake Swanson
Purge Start	09:43	**Gallons Purged**	1.62	**Replicate/ Code No.**		**Color**	Clear
Purge End	10:14						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
9:43:00	00:00	200	36.81	6.21	332.29	3.06	5.85	22.90	140.26
9:48:00	05:00	200	37.3	5.93	396.02	2.84	1.50	20.60	91.42
9:53:00	10:00	200	37.49	5.71	383.77	0.58	0.80	20.50	126.79
9:58:00	15:00	200	37.58	5.50	347.62	0.32	0.71	20.30	153.04
10:04:00	20:38	200	37.68	5.37	331.72	1.23	0.60	20.60	170.66
10:09:00	25:38	200	37.75	5.32	323.72	0.86	0.53	20.50	177.62
10:14:00	30:38	200	37.84	5.30	321.06	0.59	0.48	20.60	179.52

Constituent Sampled	Container	Number	Preservative
ChlorideSulfate	250 mL Plastic	1	None
MercuryMetals	250 mL Plastic	1	HNO3
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 : 8/15/2023 6:40:01 PM +00:00

Project Number	30143608	**Well ID**	YGWA-1I			**Date**	8/15/2023
Project Location	AP-2		**Weather(°F)**	86.2 degrees F and Partly Cloudy. The wind is blowing NW 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)	37.24	**Total Depth (ft-bmp)**	53.6	**Water Column(ft)**	16.36	**Gallons in Well**	2.66
MP Elevation	836.6	**Pump Intake (ft-bmp)**	49	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	13:45	**Well Volumes Purged**	0.30	**Sample ID**	YAT-YGWA-1I	**Sampled by**	David Prouty
Purge Start	13:15	**Gallons Purged**	0.79	**Replicate/ Code No.**		**Color**	Clear
Purge End	13:40						

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)
13:15:00	00:00	100	38.8	6.39	103.30		3.64	22.30	26.75
13:20:00	05:00	100	39.87	6.13	77.01		1.05	17.60	75.79
13:25:00	10:00	100	41.8	5.92	57.87		3.47	17.50	126.79
13:30:00	15:00	100	41.88	5.79	54.67	0.02	4.11	18.30	151.90
13:35:00	20:00	100	41.95	5.85	53.54	0.02	4.28	18.40	156.18
13:40:00	25:00	100	42.1	5.88	54.81	0.02	4.30	19.00	159.63

Constituent Sampled	Container	Number	Preservative
Anions	250 mL Plastic	1	None
App III Metals	250 mL Plastic	1	HNO3
App IV 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 : 8/15/2023 6:43:15 PM +00:00

Project Number	30143608	**Well ID**	YGWA-1D			**Date**	8/15/2023
Project Location	AP-2		**Weather(°F)**	78.8 degrees F and Clear. The wind is blowing W/SW at 4.7 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	78.05	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	49.57	**Total Depth (ft-bmp)**	128.85	**Water Column(ft)**	79.28	**Gallons in Well**	12.88
MP Elevation	837.25	**Pump Intake (ft-bmp)**	108	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	11:20	**Well Volumes Purged**	0.07	**Sample ID**	YAT-YGWA-1D	**Sampled by**	David Prouty
Purge Start	10:49	**Gallons Purged**	0.92	**Replicate/ Code No.**		**Color**	Clear
Purge End	11:19						

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)
10:49:00	00:00	100	49.69	7.15	168.64	0.55	0.85	19.70	-133.88
10:54:00	05:00	100	49.7	7.11	164.60	0.02	0.65	18.30	-140.91
10:59:00	10:00	100	49.71	7.07	159.08	0.02	0.43	17.40	-148.39
11:04:00	15:00	100	49.72	7.04	157.29	0.02	0.75	19.20	-123.76
11:09:00	20:00	100	49.72	7.02	155.02	0.02	0.76	19.10	-113.30
11:14:00	25:00	100	49.72	7.01	153.39	0.03	0.78	18.90	-99.34
11:19:00	30:00	100	49.72	6.98	153.07	0.02	0.85	18.90	-86.58

Constituent Sampled	Container	Number	Preservative
Anions	250 mL Plastic	1	None
App III Metals	250 mL Plastic	1	HNO3
App IV 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 : 8/15/2023 8:12:44 PM +00:00

Project Number	30143608	**Well ID**	YGWA-2I			**Date**	8/15/2023
Project Location	AP-2		**Weather(°F)**	86.7 degrees F and Thunderstorms and Rain. The wind is blowing W at 4.7 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)	44.78	**Total Depth (ft-bmp)**	63.75	**Water Column(ft)**	18.97	**Gallons in Well**	3.08
MP Elevation	866.25	**Pump Intake (ft-bmp)**	60	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	15:45	**Well Volumes Purged**	0.19	**Sample ID**	YAT-YGWA-2I	**Sampled by**	David Prouty
Purge Start	15:14	**Gallons Purged**	0.59	**Replicate/ Code No.**		**Color**	Clear
Purge End	15:41						

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)
15:14:00	00:00	100	44.78	6.94	225.19		6.10	19.50	96.70
15:15:00	00:22	100	44.78	6.93	228.51		5.35	19.50	45.58
15:15:00	00:45	100	44.78	6.90	235.78		4.59	18.70	3.86
15:16:00	01:23	100	45.73	6.94	240.21	0.89	3.57	18.60	-32.08
15:21:00	06:23	80	46.65	7.08	250.07	0.02	2.06	20.00	-62.29
15:26:00	11:23	80	47.15	7.08	250.80	0.02	1.60	20.50	-62.10
15:31:00	16:23	80	47.36	7.02	249.40	0.02	1.09	20.40	-50.95
15:36:00	21:23	80	47.36	6.98	243.49	0.02	0.98	20.30	-36.80
15:41:00	26:23	80	47.36	6.96	240.30	0.02	1.06	21.40	-32.57

Constituent Sampled	Container	Number	Preservative
Anions	250 mL Plastic	1	None
App III Metals	250 mL Plastic	1	HNO3
App IV 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 : 8/15/2023 9:45:37 PM +00:00

Project Number	30143608	**Well ID**	YGWA-3D			**Date**	8/15/2023
Project Location	AP-2		**Weather(°F)**	75.2 degrees F and Thunderstorms. The wind is blowing W 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)	31.5	**Total Depth (ft-bmp)**	134.18	**Water Column(ft)**	102.68	**Gallons in Well**	16.68
MP Elevation	796.78	**Pump Intake (ft-bmp)**	113	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	17:10	**Well Volumes Purged**		**Sample ID**	YAT-YGWA-3D	**Sampled by**	David Prouty
Purge Start	16:45	**Gallons Purged**		**Replicate/ Code No.**		**Color**	Clear
Purge End	17:06						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
16:45:00	00:00	100	31.5	7.36	246.20		8.18	25.90	101.77
16:45:00	00:33	100	31.55	7.28	247.50		8.12	25.30	102.28
16:50:00	05:33	100	31.55	7.38	243.30	0.02	0.40	17.80	-76.64
16:51:00	06:42	100	31.63	7.51	243.76	0.02	0.37	17.70	-93.21
16:55:00	10:09	100	31.66	7.63	243.32	0.02	0.27	17.80	-114.05
17:00:00	15:09	100	31.7	7.67	243.72	0.02	0.26	17.70	-119.95
17:05:00	20:09	100	31.71	7.69	243.95	0.02	0.28	17.60	-121.97

Constituent Sampled	Container	Number	Preservative
Anions	250 mL Plastic	1	None
App III Metals	250 mL Plastic	1	HNO3
App IV 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 : 8/15/2023 9:47:29 PM +00:00

Project Number	30143623	**Well ID**	YGWA-14S			**Date**	8/15/2023
Project Location	AP-2		**Weather(°F)**	74.5 degrees F and Partly Cloudy. The wind is blowing undefined at 0.0 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)	18.53	**Total Depth (ft-bmp)**	34.96	**Water Column(ft)**	16.43	**Gallons in Well**	2.67
MP Elevation	748.76	**Pump Intake (ft-bmp)**	30	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	17:30	**Well Volumes Purged**	0.74	**Sample ID**	YAT-YGWA-14S	**Sampled by**	Kim Lapszynski
Purge Start	16:37	**Gallons Purged**	1.98	**Replicate/ Code No.**		**Color**	Clear
Purge End	17:28						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
16:37:00	00:00	150	18.53	6.03	15.42	1.64	7.97	26.00	180.27
16:42:00	05:00	150	18.85	5.23	29.99	0.02	8.58	20.50	209.12
16:47:00	10:00	150	18.92	5.25	40.73	0.10	8.43	20.10	223.47
16:52:00	15:00	150	18.95	5.22	57.88	0.17	8.35	19.90	236.69
16:57:00	20:00	150	18.96	5.29	64.57	0.02	8.16	19.80	237.99
17:02:00	25:00	150	18.96	5.31	67.12	0.02	8.14	19.80	249.87
17:07:00	30:00	150	18.97	5.32	68.99	0.02	8.03	19.70	262.12
17:12:00	35:00	150	18.98	5.26	71.36	0.02	7.63	19.70	272.94
17:17:00	40:00	150	18.98	5.03	74.69	0.02	6.28	19.70	278.76
17:22:00	45:00	150	18.98	5.04	74.65	0.02	6.25	19.70	277.58
17:27:00	50:00	150	18.99	5.03	74.70	0.02	6.23	19.60	278.23

Constituent Sampled	Container	Number	Preservative
App III Metals	250 mL Plastic	1	HNO3
App IV Metals/Mercury	250 mL Plastic	1	HNO3
F, SO4, Cl	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: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Groundwater Sampling Form

Updated : 8/16/2023 3:17:06 PM +00:00

Project Number	30143608	**Well ID**	YGWA-3I			**Date**	8/16/2023
Project Location	AP-2		**Weather(°F)**	It is Clear. The wind is blowing N at 5.8 mph. 72			
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)	53.13	**Total Depth (ft-bmp)**	59.05	**Water Column(ft)**	5.92	**Gallons in Well**	0.96
MP Elevation	796.55	**Pump Intake (ft-bmp)**	54	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	10:50	**Well Volumes Purged**	0.91	**Sample ID**	YAT-YGWA-3I	**Sampled by**	David Prouty
Purge Start	10:05	**Gallons Purged**	0.87	**Replicate/ Code No.**		**Color**	Clear
Purge End	10:45						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:05:00	00:00	100	53.7	7.34	232.33	0.02	7.33	18.60	216.33
10:10:00	05:00	80	54.2	7.30	290.92	0.02	2.31	18.10	214.83
10:15:00	10:00	80	53.8	7.33	279.46	0.05	1.50	18.50	158.07
10:20:00	15:00	80	53.65	7.35	264.04	0.02	1.33	19.50	144.12
10:25:00	20:00	80	53.65	7.37	240.62	0.02	0.81	19.40	-2.47
10:30:00	25:00	80	53.65	7.39	227.18	0.02	0.62	19.40	-31.47
10:35:00	30:00	80	53.64	7.39	216.94	0.02	0.57	19.30	-55.49
10:40:00	35:00	80	53.64	7.38	214.29	0.02	0.60	19.30	-61.05
10:45:00	40:00	80	53.64	7.39	211.10	0.02	0.61	19.20	-67.19

Constituent Sampled	Container	Number	Preservative
Anions	250 mL Plastic	1	None
App III Metals	250 mL Plastic	1	HNO3
App IV 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 : 8/16/2023 4:56:03 PM +00:00

Project Number	30143608	**Well ID**	YGWA-30I			**Date**	8/16/2023
Project Location	AP-2		**Weather(°F)**	78.8 degrees F and Clear. The wind is blowing NW at 5.8 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)	42.45	**Total Depth (ft-bmp)**	59.48	**Water Column(ft)**	17.03	**Gallons in Well**	2.77
MP Elevation	762.58	**Pump Intake (ft-bmp)**	54.5	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	12:20	**Well Volumes Purged**	0.20	**Sample ID**	YAT-YGWA-30I	**Sampled by**	David Prouty
Purge Start	11:56	**Gallons Purged**	0.55	**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)
11:56:00	00:00	100	42.45	5.53	41.77	0.02	7.00	18.90	243.62
12:01:00	05:00	100	42.45	5.54	41.80	0.02	7.05	19.00	249.49
12:07:00	10:53	100	42.45	5.53	41.73	0.74	7.05	19.20	254.67
12:12:00	15:53	100	42.45	5.53	41.65	0.27	7.06	19.00	258.78
12:17:00	20:53	100	42.45	5.55	41.65	0.23	7.07	19.10	260.93

Constituent Sampled	Container	Number	Preservative
Anions	250 mL Plastic	1	None
App III Metals	250 mL Plastic	1	HNO3
App IV 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 : 8/17/2023 9:41:13 AM -04:00

Project Number	30143623	**Well ID**	YGWA-21I			**Date**	08/15/2023
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	77.0 degrees F and Clear. The wind is blowing W at 4.7 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)	31.78	**Total Depth (ft-bmp)**	79.9	**Water Column(ft)**	48.12	**Gallons in Well**	7.82
MP Elevation	783.7	**Pump Intake (ft-bmp)**	75	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	10:35	**Well Volumes Purged**	0.09	**Sample ID**	YGWA-21I	**Sampled by**	Jessica Ware
Purge Start	10:06	**Gallons Purged**	0.69	**Replicate/ Code No.**		**Color**	Clear
Purge End	10:32						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:06:00	00:00	200	31.78	7.22	173.14	1.16	7.85	26.3	184.83
10:11:00	05:00	100	33.15	6.77	182.86	2.15	1.51	22.2	-24.05
10:16:00	10:00	100	33.63	6.81	188.75	1.30	1.02	24.1	-73.15
10:21:00	15:00	100	34	6.85	187.55	1.15	0.77	23.9	-105.42
10:26:00	20:00	100	34.11	6.84	186.75	0.86	0.76	25.4	-98.83
10:31:00	25:00	100	34.19	6.84	184.65	0.02	0.79	25.8	-97.47

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None
Anions	250 mL Plastic	1	None
App III metals	250 mL Plastic	1	HNO3
App IV metals,Mercury	250 mL Plastic	1	HNO3

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

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

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 8/15/2023 4:43:26 PM +00:00

Project Number	30143623	**Well ID**	YGWA-4I			**Date**	8/15/2023
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	83.1 degrees F and Mostly Cloudy. The wind is blowing NW at 4.7 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)	24.27	**Total Depth (ft-bmp)**	48.81	**Water Column(ft)**	24.54	**Gallons in Well**	3.99
MP Elevation	784.21	**Pump Intake (ft-bmp)**	45	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:25	**Well Volumes Purged**	0.30	**Sample ID**	YAT-YGWA-4I	**Sampled by**	Kim Lapszynski
Purge Start	11:51	**Gallons Purged**	1.19	**Replicate/ Code No.**		**Color**	Clear
Purge End	12:21						

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)
11:51:00	00:00	150	24.27	6.60	159.44	0.02	5.72	20.60	126.80
11:56:00	05:00	150	25.54	6.01	168.76	0.02	1.94	18.70	159.52
12:01:00	10:00	150	25.82	6.00	169.94	0.02	1.41	18.30	166.27
12:06:00	15:00	150	26.07	6.02	167.15	0.02	1.67	18.00	170.11
12:11:00	20:00	150	26.12	6.05	163.14	0.02	2.33	18.10	172.95
12:16:00	25:00	150	26.23	6.03	161.34	0.02	2.30	18.00	174.57
12:21:00	30:00	150	26.27	5.99	157.86	0.02	2.37	18.00	175.97

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

Comments: Throughout purging, consistently bumped tested turbidity standards and all within range.

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 : 8/15/2023 6:55:07 PM +00:00

Project Number	30143623	**Well ID**	YGWA-18S			**Date**	8/15/2023
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	88.2 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)**	29.97	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	21.95	**Total Depth (ft-bmp)**	39.97	**Water Column(ft)**	18.02	**Gallons in Well**	2.93
MP Elevation	790.57	**Pump Intake (ft-bmp)**	35	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	14:35	**Well Volumes Purged**	0.36	**Sample ID**	YGWA-18S	**Sampled by**	Kim Lapszynski
Purge Start	14:07	**Gallons Purged**	1.06	**Replicate/ Code No.**		**Color**	Clear
Purge End	14:28						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:07:00	00:00	200	21.95	6.60	65.27	1.78	7.27	24.70	188.86
14:12:00	05:00	200	23.08	5.18	62.97	0.02	3.88	19.00	183.25
14:17:00	10:00	200	23.41	5.19	64.09	0.02	3.36	18.70	183.33
14:22:00	15:00	200	23.48	5.20	64.04	0.12	3.25	18.50	184.52
14:27:00	20:00	200	23.53	5.20	64.20	0.02	3.28	18.60	184.94

Constituent Sampled	Container	Number	Preservative
App III metals	250 mL Plastic	1	HNO3
App IV Metals/Mercury	250 mL Plastic	1	HNO3
F, SO4, Cl	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 : 8/15/2023 7:59:42 PM +00:00

Project Number	30143623	**Well ID**	YGWA-18I			**Date**	8/15/2023
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	86.7 degrees F and Thunderstorms and Rain. The wind is blowing W at 4.7 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)	24.87	**Total Depth (ft-bmp)**	79.97	**Water Column(ft)**	55.10	**Gallons in Well**	8.95
MP Elevation	790.57	**Pump Intake (ft-bmp)**	75	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	15:40	**Well Volumes Purged**	0.09	**Sample ID**	YGWA-18I	**Sampled by**	Kim Lapszynski
Purge Start	15:17	**Gallons Purged**	0.79	**Replicate/ Code No.**		**Color**	Clear
Purge End	15:37						

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)
15:17:00	00:00	150	24.87	6.08	125.32	1.91	8.10	22.10	185.83
15:22:00	05:00	150	25.09	5.84	126.70	3.32	3.86	18.30	187.04
15:27:00	10:00	150	25.13	5.82	127.26	4.73	3.89	18.40	187.19
15:32:00	15:00	150	25.13	5.82	126.60	3.97	3.90	18.10	187.78
15:37:00	20:00	150	25.13	5.82	126.65	3.92	3.92	18.20	188.15

Constituent Sampled	Container	Number	Preservative
App III metals	250 mL Plastic	1	HNO3
App IV Metals/Mercury	250 mL Plastic	1	HNO3
F, SO4, Cl	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 : 8/16/2023 9:28:25 PM +00:00

Project Number	30143623	**Well ID**	YGWA-5I			**Date**	8/15/2023
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	77.0 degrees F and Clear. The wind is blowing W at 4.7 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)	20.59	**Total Depth (ft-bmp)**	58.94	**Water Column(ft)**	38.35	**Gallons in Well**	6.23
MP Elevation	784.54	**Pump Intake (ft-bmp)**	53	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	10:20	**Well Volumes Purged**	0.10	**Sample ID**	YAT-YGWA-5I	**Sampled by**	Kim Lapszynski
Purge Start	09:58	**Gallons Purged**	0.59	**Replicate/ Code No.**		**Color**	Clear
Purge End	10:16						

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)
9:58:00	00:00	150	20.59	6.24	99.40	1.92	6.69	21.80	200.12
10:03:00	05:00	150	20.9	5.60	98.10	0.27	5.31	18.40	197.83
10:08:00	10:00	150	20.97	5.57	96.97	0.14	5.11	18.00	194.09
10:13:00	15:00	150	20.97	5.58	96.86	0.02	5.13	18.00	193.98

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

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 8/17/2023 1:39:20 PM +00:00

Project Number	30143623	**Well ID**	YGWA-40			**Date**	8/15/2023
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	75.2 degrees F and Thunderstorms. The wind is blowing W 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)	23.72	**Total Depth (ft-bmp)**	48.23	**Water Column(ft)**	24.51	**Gallons in Well**	3.98
MP Elevation	815.73	**Pump Intake (ft-bmp)**	42	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	17:20	**Well Volumes Purged**	0.39	**Sample ID**	YAT-YGWA-40	**Sampled by**	Jessica Ware
Purge Start	16:49	**Gallons Purged**	1.53	**Replicate/ Code No.**		**Color**	Clear
Purge End	17:59						

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)
16:49:00	00:00	200	23.72	4.75	129.29	0.02	0.71	19.00	131.14
16:54:00	05:00	150	24.47	4.71	126.66	0.65	0.19	19.00	163.54
16:59:00	10:00	150	24.46	4.77	125.97	0.02	0.13	19.00	179.51
17:04:00	15:00	150	24.47	4.85	126.09	0.02	0.10	18.80	187.78
17:09:00	20:00	150	24.47	4.91	126.01	0.02	0.10	18.80	193.46
17:14:00	25:00	150	24.48	4.96	126.01	0.02	0.08	18.80	197.16
17:19:00	30:00	150	24.48	5.00	125.51	0.02	0.08	18.70	199.02

Constituent Sampled	Container	Number	Preservative
Anions	250 mL Plastic	1	None
App III metals	250 mL Plastic	1	HNO3
App IV metalsMercury	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 : 8/17/2023 1:39:41 PM +00:00

Project Number	30143623	**Well ID**	YGWA-39			**Date**	8/15/2023
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	It is Thunderstorms and Rain. The wind is blowing W at 5.8 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	58.09	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	17.68	**Total Depth (ft-bmp)**	68.59	**Water Column(ft)**	50.91	**Gallons in Well**	8.27
MP Elevation	818.19	**Pump Intake (ft-bmp)**	63	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	16:11	**Well Volumes Purged**	0.17	**Sample ID**	YAT-YGWA-39	**Sampled by**	Jessica Ware
Purge Start	15:46	**Gallons Purged**	1.37	**Replicate/ Code No.**		**Color**	Clear
Purge End	16:07						

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)
15:46:00	00:00	200	17.68	6.34	309.57	1.50	5.32	25.20	130.29
15:51:00	05:00	200	17.77	5.83	414.64	1.19	0.84	20.80	96.27
15:56:00	10:00	200	17.98	5.78	420.91	0.27	0.25	19.90	91.80
16:01:00	15:00	200	18.03	5.78	423.68	0.13	0.13	19.60	88.26
16:06:00	20:00	200	18	5.78	421.12	0.02	0.11	19.60	87.17

Constituent Sampled	Container	Number	Preservative
Anions	250 mL Plastic	1	None
App III metals	250 mL Plastic	1	HNO3
App IV metalsMercury	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 : 8/17/2023 1:40:24 PM +00:00

Project Number	30143623	**Well ID**	YGWA-17S			**Date**	8/15/2023
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	86.7 degrees F and Thunderstorms and Rain. The wind is blowing W at 4.7 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	29.65	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	14.46	**Total Depth (ft-bmp)**	39.85	**Water Column(ft)**	25.39	**Gallons in Well**	4.13
MP Elevation	783.05	**Pump Intake (ft-bmp)**	35	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	14:50	**Well Volumes Purged**	0.35	**Sample ID**	YGWA-17S	**Sampled by**	Jessica Ware
Purge Start	13:56	**Gallons Purged**	1.43	**Replicate/ Code No.**		**Color**	Clear
Purge End	14:48						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:56:00	00:00	100	14.46	4.80	113.86	3.98	5.22	25.90	211.14
14:01:00	05:00	100	14.57	4.63	108.12	0.70	2.38	22.30	208.11
14:06:00	10:00	100	14.58	4.74	106.92	0.15	1.90	21.40	200.46
14:11:00	15:00	100	14.58	4.97	106.96	0.02	1.77	21.30	183.80
14:16:00	20:00	100	14.58	5.11	107.57	0.11	1.75	21.10	176.01
14:17:00	21:03	100	14.59	5.14	107.37	0.14	1.74	21.00	173.33
14:22:00	26:03	100	14.57	5.25	107.36	0.38	1.67	20.70	168.24
14:27:00	31:03	100	14.57	5.32	107.22	0.44	1.63	20.70	163.52
14:32:00	36:03	100	14.58	5.39	107.23	0.50	1.61	20.50	161.90
14:37:00	41:03	100	14.6	5.45	107.11	0.52	1.58	20.30	159.31
14:42:00	46:03	100	14.58	5.50	107.55	0.50	1.57	20.20	158.97
14:47:00	51:03	100	14.58	5.54	106.77	0.55	1.56	20.10	156.21

Constituent Sampled	Container	Number	Preservative
Anions	250 mL Plastic	1	None
App III metals	250 mL Plastic	1	HNO3
App IV metalsMercury	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: _____

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 8/17/2023 1:40:42 PM +00:00

Project Number	30143623	**Well ID**	YGWA-20S			**Date**	8/15/2023
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	83.1 degrees F and Mostly Cloudy. The wind is blowing NW at 4.7 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)	11.5	**Total Depth (ft-bmp)**	29.52	**Water Column(ft)**	18.02	**Gallons in Well**	2.93
MP Elevation	767.12	**Pump Intake (ft-bmp)**	24.5	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:25	**Well Volumes Purged**	0.61	**Sample ID**	YGWA-20S	**Sampled by**	Jessica Ware
Purge Start	11:36	**Gallons Purged**	1.78	**Replicate/ Code No.**		**Color**	Clear
Purge End	12:22						

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)
11:36:00	00:00	200	11.5	6.95	106.05	4.92	5.04	24.60	-1.00
11:41:00	05:00	150	12.02	6.21	55.12	8.80	7.06	19.80	61.55
11:46:00	10:00	125	12.1	6.31	54.89	5.86	7.13	19.20	79.47
11:51:00	15:00	125	12.12	6.51	54.54	2.37	7.13	19.20	86.02
11:56:00	20:00	125	12.13	6.68	54.41	1.78	7.12	18.90	91.18
12:01:00	25:00	125	12.12	6.78	54.33	1.52	7.12	18.90	94.38
12:06:00	30:00	125	12.14	6.86	54.32	1.42	7.06	19.50	97.38
12:11:00	35:00	125	12.15	6.92	54.24	1.35	7.10	19.10	97.76
12:16:00	40:00	125	12.13	6.97	54.09	1.33	7.10	19.10	100.78
12:21:00	45:00	125	12.12	7.00	53.89	1.21	7.01	19.40	104.40

Constituent Sampled	Container	Number	Preservative
Anions	250 mL Plastic	1	None
App III metals	250mL HDPE Plastic	1	HNO3
App IV metalsMercury	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 : 8/23/2023 5:04:37 PM +00:00

Project Number	30143623	**Well ID**	YGWA-5D			**Date**	8/15/2023
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	81.5 degrees F and Partly 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)	20.8	**Total Depth (ft-bmp)**	129.13	**Water Column(ft)**	108.33	**Gallons in Well**	17.60
MP Elevation	784.53	**Pump Intake (ft-bmp)**	124	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	11:13	**Well Volumes Purged**	0.06	**Sample ID**	YAT-YGWA-5D	**Sampled by**	Kim Lapszynski
Purge Start	10:49	**Gallons Purged**	1.06	**Replicate/ Code No.**		**Color**	Clear
Purge End	11:10						

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)
10:49:00	00:00	200	20.8	6.65	227.72	4.02	6.10	20.50	197.18
10:54:00	05:00	200	21.57	7.32	249.74	0.02	0.14	18.40	-138.90
10:59:00	10:00	200	21.59	7.38	246.03	0.02	0.07	18.30	-141.65
11:04:00	15:00	200	21.58	7.35	240.13	0.02	0.04	18.30	-148.25
11:09:00	20:00	200	21.58	7.34	238.56	0.02	0.03	18.20	-157.18

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

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

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-1D
Person Gauging:	Jake Swanson
Date:	8/14/2023
Time:	09:36:00

			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

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YGWA-40
Person Gauging:	Kim Lapszynski
Date:	8/14/2023
Time:	15:38:00

			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:				
	Area around well needs to be cleared.				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-1I
Person Gauging:	Jake Swanson
Date:	8/14/2023
Time:	09:56:00

			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

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-2I
Person Gauging:	Jake Swanson
Date:	8/14/2023
Time:	10:01:00

			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

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-3I
Person Gauging:	Jake Swanson
Date:	8/14/2023
Time:	10:08:00

			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

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-3D
Person Gauging:	Jake Swanson
Date:	8/14/2023
Time:	10:10:00

			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

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-20S
Person Gauging:	Kim Lapszynski
Date:	8/14/2023
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:				
	Well area and path to well needs to be cleared of vegetation.				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-14S
Person Gauging:	Jake Swanson
Date:	8/14/2023
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:				
	Grass needs to be cut				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS

Project Location:	Gypsum Landfill
Permit Number:	
Well ID:	GWA-2
Person Gauging:	Mark Chest
Date:	8/14/2023
Time:	10:33:00

			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:				
	Needs new label				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-21I
Person Gauging:	Kim Lapszynski
Date:	8/14/2023
Time:	10:33:00

			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:				
	Well area needs to be cleared of vegetation.				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-30I
Person Gauging:	Jake Swanson
Date:	8/14/2023
Time:	10:37:00

			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:				
	Grass needs to be cut				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-5D
Person Gauging:	Kim Lapszynski
Date:	8/14/2023
Time:	10:47:00

			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

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-5I
Person Gauging:	Kim Lapszynski
Date:	8/14/2023
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

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-4I
Person Gauging:	Kim Lapszynski
Date:	8/14/2023
Time:	11:01:00

			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:				
	Well area needs to be cleared.				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-18I
Person Gauging:	Kim Lapszynski
Date:	8/14/2023
Time:	12:01:00

			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:				
	Need to clear area by well				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-18S
Person Gauging:	Kim Lapszynski
Date:	8/14/2023
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:				
	Need to clear area by well.				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-17S
Person Gauging:	Kim Lapszynski
Date:	8/14/2023
Time:	12:15:00

			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:				
	Need to clear area by well.				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS

Project Location:	AP-1
Permit Number:	
Well ID:	YGWA-47
Person Gauging:	Mark Chest
Date:	8/14/2023
Time:	12:15:00

			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

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YGWA-39
Person Gauging:	Kim Lapszynski
Date:	8/14/2023
Time:	15:32:00

			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:				
	Area around well needs to be cleared.				
8	Date by when corrective actions are needed:				

Appendix B

Analytical Laboratory Data and Validation Reports

February 2023

Georgia Power Co. – Plant Yates

Data Review Report

Metals, General Chemistry, and Radium Analyses

SDGs #92651579 and 92651580

Analyses Performed By:
Pace Analytical Services – Asheville, North Carolina
Pace Analytical Services – Peachtree Corners, Georgia
Pace Analytical Services – Greensburg, Pennsylvania

Report #49112R
Review Level: Tier II
Project: 30143622.3

Summary

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

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

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

Notes:

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

Analytical Data Package Documentation

The table below evaluates the data package completeness.

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

Note:
QA = quality assurance

Inorganic Analysis Introduction

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

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

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

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

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

Metals Analyses

1. Holding Times

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

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

Note:
s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

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

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

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

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

Notes:
EB = Equipment blank
FB = Field blank
RL = Reporting limit

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

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

3.1 MS/MSD Analysis

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

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

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

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

3.2 Laboratory Duplicate Analysis

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

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

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

4. Field Duplicate Analysis

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

Results for duplicate samples are summarized in the following table.

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

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

Note:
AC = Acceptable

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

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

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

5. Laboratory Control Sample (LCS) Analysis

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

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

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

Data Validation Checklist for Metals

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

Notes:
%R Percent recovery
RPD Relative percent difference

General Chemistry Analyses

1. Holding Times

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

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

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

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

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

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

Notes:
FB = Field blank
RL = Reporting limit

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

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

3.1 MS/MSD Analysis

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

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

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

3.2 Laboratory Duplicate Analysis

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

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

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

4. Field Duplicate Analysis

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

Results for duplicate samples are summarized in the following table.

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

Note:
AC = Acceptable

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

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

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

5. Laboratory Control Sample (LCS) Analysis

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

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

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

Data Validation Checklist for General Chemistry

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

Notes:

%R Percent recovery

RPD Relative percent difference

Radiological Analyses

1. Holding Times

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

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

Note:
s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

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

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

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

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

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

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-YGCW-43 in association with SW-846 9315 analysis exhibited acceptable difference between the results.

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

4. Field Duplicate Analysis

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

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

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

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

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

Note:
AC = Acceptable

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

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

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

5. Tracer or Carrier

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

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

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

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

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

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

Where:

x = Analytical result of the LCS

c = Known concentration of the LCS

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

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

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

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

7. Isotope Identification

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

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

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

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

8. System Performance and Overall Assessment

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

Data Validation Checklist for Radiologicals

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

Notes:
%R Percent recovery
RPD Relative percent difference

VALIDATION PERFORMED BY: Jennifer Singer

SIGNATURE: 

DATE: April 26, 2023

PEER REVIEW: Joseph C. Houser

DATE: May 8, 2023

Chain of Custody / Data Qualifier Summary Table

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 of 2

Section A — Required Client Information:

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

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Task No:	YAT-CCR-ASSMT-202301
Purchase Order #:	
Project Name:	Plant Yates AMA-R6
Project Number:	

Section C — Invoice Information:

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

Regulatory Agency:

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM22320B)	Residual Chlorine (Y/N)	9265179
1	YAT-YGWC-23S	WG	G	2/8	1535	–	–		6	3		3							X	X	X	X	X		pH: 5.33 GVL
2	YAT-YAMW-1	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
3	YAT-AMA-FD-1	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
4	YAT-YGWC-36A	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
5	YAT-YGWC-49	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
6	YAT-YGWC-38	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
7	YAT-AMA-FD-2	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
8	YAT-YGWC-41	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
9	YAT-YGWC-42	WG	G	2/9	1730	–	–		6	3		3							X	X	X	X	X		pH: 5.48 GVL
10	YAT-YGWC-43	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
11	YAT-YAMW-2	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
12	YAT-YAMW-3	WG	G			–	–		5	2		3							X	X	X	X	X		pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/9/23	0855		2/9/23	0855	
App III Metals: Boron 6020B, Ca 6010D	/Arcadis	2/9/23	0920	Ryan Willis / Pace	2/9/23	0920	
Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate	Ryan Willis / Pace	2/9/23	1235		2/9/23	1235	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jessica Ware

SIGNATURE of SAMPLER: Jessica Ware DATE Signed: 2/9/23

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 Of 2

Section A — Required Client Information:

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

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Task No:	YAT-CCR-ASSMT-202301
Purchase Order #:	
Project Name:	Plant Yates AMA-R6
Project Number:	

Section C — Invoice Information:

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

Regulatory Agency: —

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (Matrix: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	Requested Analysis Filtered (Y/N): App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD (9315/9320)	Alkalinity (SM2320B)	Residual Chlorine (Y/N)	9265179
1	YAT-YAMW-4	WG	G			-	-		6	3		3						X	X	X	X	X		pH:
2	YAT-YAMW-5	WG	G			-	-		6	3		3						X	X	X	X	X		pH:
3	YAT-PZ-37	WG	G	2/8	0946	-	-		6	3		3						X	X	X	X	X		pH: 5.15 0953
4	YAT-AMA-R6-FD-3	WG	G	2/8	—	-	-		6	3		3						X	X	X	X	X		pH: — 0954
5	YAT-PZ-37D	WG	G	2/8	1348	-	-		6	3		3						X	X	X	X	X		pH: 7.95 0956
6	YAT-PZ-51	WG	G			-	-		6	3		3						X	X	X	X	X		pH:
7	YAT-PZ-52D	WG	G	2/8	1116	-	-		6	3		3						X	X	X	X	X		pH: 6.12 0959
8	YAT-PZ-35	WG	G			-	-		6	3		3						X	X	X	X	X		pH:
9	YAT-AMA-R6-EB-1	WG	G	2/8	1840	-	-		6	3		3						X	X	X	X	X		pH: — 1057
10	YAT-AMA-R6-EB-2	WG	G			-	-		6	3		3						X	X	X	X	X		pH:
11	YAT-AMA-R6-FB-1	WG	G			-	-		6	3		3						X	X	X	X	X		pH:
12	YAT-AMA-R6-FB-2	WG	G	2/8	1100	-	-		6	3		3						X	X	X	X	X		pH: — 0956

ADDITIONAL COMMENTS

Anions Suite 300.0 (Cl, F, Sulfate)

App III Metals: Boron 6020B, Ca 6010D

App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). **Also add Ca, Na, K for this event.**
Alkalinity - report total, carbonate, and bicarbonate

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
(Arcadis)	2/9/23	0855		2/9/23	0855
	2/9/23	0920	Ryan Williams / Pace	2/9/23	0920
Ryan Williams / Pace	2/9/23	1235		2/9/23	1235

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: (Arcadis) Jessica Ware

SIGNATURE of SAMPLER: (Arcadis) DATE Signed: 2/9/23

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 2

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	laucoker@southernco.com
Phone:	470.620.6176 Fax:
Requested Due Date:	5-10 TAT

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Task No:	YAT-CCR-ASSMT-202351
Purchase Order #:	
Project Name:	Plant Yates AMA-R6
Project Number:	

Section C — Invoice Information:

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

Regulatory Agency:

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	Residual Chlorine (Y/N)	92651579
1	YAT-YGWC-23S	WG	G			–	–		5	2		3						X	X	X	X	X			pH:
2	YAT-YAMW-1	WG	G			–	–		5	2		3						X	X	X	X	X			pH:
3	YAT-AMA-FD-1	WG	G			–	–		5	2		3						X	X	X	X	X			pH:
4	YAT-YGWC-36A	WG	G			–	–		5	2		3						X	X	X	X	X			pH:
5	YAT-YGWC-49	WG	G			–	–		5	2		3						X	X	X	X	X			pH:
6	YAT-YGWC-38	WG	G	2/8/23	0430	–	–		5	2		3						X	X	X	X	X			pH: 5.16 CW
7	~~YAT-AMAFD-2~~ YAT-YAMW-R6-FD-2	WG	G	2/8/23	—	–	–		5	2		3						X	X	X	X	X			pH: — CW
8	YAT-YGWC-41	WG	G	2/8/23	1030	–	–		5	2		3						X	X	X	X	X			pH: 4.69 CW
9	YAT-YGWC-42	WG	G			–	–		5	2		3						X	X	X	X	X			pH:
10	YAT-YGWC-43	WG	G	2/8/23	1800	–	–		5	2		3						X	X	X	X	X			pH: 5.40 CW
11	YAT-YAMW-2	WG	G	2/8/23	1355	–	–		5	2		3						X	X	X	X	X			pH: 5.45 CW
12	YAT-YAMW-3	WG	G			–	–		5	2		3						X	X	X	X	X			pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/9/23	0900	/Pace	2/9/23	0900	
App III Metals: Boron 6020B, Ca 6010D	Kim Lapszynski/Arc	2/9/23	0920	Ryan Williams/Pace	2/9/23	0920	
Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg) **Also add Ca, Na, K for this event.** **Alkalinity – report total, carbonate, and bicarbonate**	Ryan Williams/Pace	2/9/23	1235	Connie Henke	2/9/23	1235	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kim Lapszynski

SIGNATURE of SAMPLER: Kim Li DATE Signed: 2/9/23

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-202351	Address:	
Email To:	laucoker@southernco.com	Purchase Order #		Pace Quote:	
Phone:	470.620.6176 Fax:	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	Bonnie Wang
Requested Due Date:	STAT	Project Number:		Pace Profile #:	10840

Regulatory Agency
State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	Residual Chlorine (Y/N)	92651579
1	YAT-YAMW-4	WG	G	7/6/23	1152	–	–		6	3		3							X	X	X	X	X		pH: 6.49 6.14
2	YAT-YAMW-5	WG	G	7/5/23	1058	–	–		6	3		3							X	X	X	X	X		pH: 5.67 6.15
3	YAT-PZ-37	WG	G			–	–		6	3		3							X	X	X	X	X		pH:
4	YAT-AMA-R6-FD-3	WG	G			–	–		6	3		3							X	X	X	X	X		pH:
5	YAT-PZ-37D	WG	G			–	–		6	3		3							X	X	X	X	X		pH:
6	YAT-PZ-51	WG	G			–	–		6	3		3							X	X	X	X	X		pH:
7	YAT-PZ-52D	WG	G			–	–		6	3		3							X	X	X	X	X		pH:
8	YAT-PZ-35	WG	G			–	–		6	3		3							X	X	X	X	X		pH:
9	YAT-AMA-R6-EB-1	WG	G			–	–		6	3		3							X	X	X	X	X		pH:
10	YAT-AMA-R6-EB-2	WG	G			–	–		6	3		3							X	X	X	X	X		pH:
11	YAT-AMA-R6-FB-1	WG	G			–	–		6	3		3							X	X	X	X	X		pH:
12	YAT-AMA-R6-FB-2	WG	G			–	–		6	3		3							X	X	X	X	X		pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	7/9/23	0900		7/9/23	0900	
App III Metals: Boron 6020B, Ca 6010D	Kim Lapszynski	7/9/23	0920	Ryan Williams / Pace	7/9/23	0920	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A Mercury (Hg) Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate	Ryan Williams / Pace	7/9/23	1235		7/9/23	1235	

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	(Arcadis): Kim Lapszynski					
SIGNATURE of SAMPLER:	(Arcadis):	DATE Signed: 7/9/23				

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 3

Section A — Required Client Information:

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

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Task No:	YAT-CCR-ASSMT-202351
Purchase Order #:	
Project Name:	Plant Yates AMA-R6
Project Number:	

Section C — Invoice Information:

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

Regulatory Agency:

State / Location: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	Residual Chlorine (Y/N)	92651579
1	YAT-YGWC-23S	WG	G			--	--		5	2		3													
2	YAT-YAMW-1	WG	G	2/9/23	1530	--	--	6.0	2			3							X	X	X	X	X		pH:
3	~~YAT-AMA-FD-1~~ YAT-AMA-R6-FD-1	WG	G	2/9/23	—	--	--	6.0	2			3							X	X	X	X	X		pH: 5.73
4	YAT-YGWC-36A	WG	G	2/9/23	1310	--	--	6.0	2			3							X	X	X	X	X		pH: —
5	YAT-YGWC-49	WG	G			--	--		5	2		3							X	X	X	X	X		pH: 5.67
6	YAT-YGWC-38	WG	G			--	--		5	2		3							X	X	X	X	X		pH:
7	YAT-AMA-FD-2	WG	G			--	--		5	2		3							X	X	X	X	X		pH:
8	YAT-YGWC-41	WG	G			--	--		5	2		3							X	X	X	X	X		pH:
9	YAT-YGWC-42	WG	G			--	--		5	2		3							X	X	X	X	X		pH:
10	YAT-YGWC-43	WG	G			--	--		5	2		3							X	X	X	X	X		pH:
11	YAT-YAMW-2	WG	G			--	--		5	2		3							X	X	X	X	X		pH:
12	YAT-YAMW-3	WG	G			--	--		5	2		3							X	X	X	X	X		pH:

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed: 2/10/23

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

WO#: 92651579

PM: BV Due Date: 03/02/23

CLIENT: GA-GA Power

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 Of 3

Section A — Required Client Information:

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

Section B — Required Project Information:

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

Section C — Invoice Information:

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

Regulatory Agency: —

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test: App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	Residual Chlorine (Y/N)	92651579
1	YAT-YAMW-4	WG	G			–	–		6	3		3						X	X	X	X	X		pH:
2	YAT-YAMW-5	WG	G			–	–		6	3		3						X	X	X	X	X		pH:
3	YAT-PZ-37	WG	G			–	–		6	3		3						X	X	X	X	X		pH:
4	YAT-AMA-R6-FD-3	WG	G			–	–		6	3		3						X	X	X	X	X		pH:
5	YAT-PZ-37D	WG	G			–	–		6	3		3						X	X	X	X	X		pH:
6	YAT-PZ-51	WG	G			–	–		6	3		3						X	X	X	X	X		pH:
7	YAT-PZ-52D	WG	G	2/9/23	1148	–	–		6	3		3						X	X	X	X	X		pH:
8	YAT-PZ-35	WG	G			–	–		6	3		3						X	X	X	X	X		pH: 0.19
9	YAT-AMA-R6-EB-1	WG	G			–	–		6	3		3						X	X	X	X	X		pH: 5.50
10	YAT-AMA-R6-EB-2	WG	G			–	–		6	3		3						X	X	X	X	X		pH:
11	YAT-AMA-R6-FB-1	WG	G	2/9/23	1055	–	–		6	3		3						X	X	X	X	X		pH:
12	YAT-AMA-R6-FB-2	WG	G			–	–		6	3		3						X	X	X	X	X		pH: — 0.20

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/10/23	1700	/Arcadis	2/10/23	1200	
App III Metals: Boron 6020B, Ca 6010D							
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate		2/10/23	1400		2/10/23	1400	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: (Arcadis) -

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

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

WO#: 92651579

PM: BV Due Date: 03/02/23

CLIENT: GA-GA Power

Page : 3 of 3

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-302351	Address:	
Email To:	laucaker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax:	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	Bonnie Young
Requested Due Date:	Std TAT	Project Number:		Pace Profile #:	10840

Regulatory Agency
State / Location
Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	Residual Chlorine (Y/N)	92851575
1	YAT-YGWC-24SB	WG	G	2/10/23	0845	-	-		6	3		3							X	X	X	X	X		pH: 5.67 OL
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/10/23	1200	/Arcadis	2/10/23	1200	
App III Metals: Boron 6020B, Ca 6010D							
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate		2/10/23	1400		2/10/23	1401	

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	(Arcadis) - Kim Laszynski					
SIGNATURE of SAMPLER:	(Arcadis)	DATE Signed: 2/10/23				

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 of 2

Section A – Required Client Information:

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

Section B – Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Task No:	YAT-CCR-ASSMT-2022331
Purchase Order #:	
Project Name:	Plant Yates AMA-R6
Project Number:	

Section C – Invoice Information:

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

Regulatory Agency:

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N): Y/N	Analysis Test	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	Residual Chlorine (Y/N)	9265179
1	YAT-YAMW-4	WG	G			–	–		6	3		3								X	X	X	X	X		pH:
2	YAT-YAMW-5	WG	G			–	–		6	3		3								X	X	X	X	X		pH:
3	YAT-PZ-37	WG	G			–	–		6	3		3								X	X	X	X	X		pH:
4	YAT-AMA-R6-FD-3	WG	G			–	–		6	3		3								X	X	X	X	X		pH:
5	YAT-PZ-37D	WG	G			–	–		6	3		3								X	X	X	X	X		pH:
6	YAT-PZ-51	WG	G	2/9	1601	–	–		6	3		3								X	X	X	X	X		pH:
7	YAT-PZ-52D	WG	G			–	–		6	3		3								X	X	X	X	X		pH: 5.14 022
8	YAT-PZ-35	WG	G			–	–		6	3		3								X	X	X	X	X		pH:
9	YAT-AMA-R6-EB-1	WG	G			–	–		6	3		3								X	X	X	X	X		pH:
10	YAT-AMA-R6-EB-2	WG	G	2/9/23	1725	–	–		6	3		3								X	X	X	X	X		pH:
11	YAT-AMA-R6-FB-1	WG	G			–	–		6	3		3								X	X	X	X	X		pH: — 023
12	YAT-AMA-R6-FB-2	WG	G			–	–		6	3		3								X	X	X	X	X		pH:

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: (Arcadis) Jessica Ware

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

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

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 1

Section A — Required Client Information:

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

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Task No:	YAT-CCR-ASSMT-202351
Purchase Order #:	
Project Name:	Plant Yates AMA-R6
Project Number:	

Section C — Invoice Information:

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

Regulatory Agency:

State / Location: Georgia

Requested Analysis Filtered (Y/N):

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (Insert value from left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	Residual Chlorine (Y/N)	
	MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS																								92651579
1	YAT-YGWC-23S	WG	G			--	--		5	2		3						X	X	X	X	X		pH:
2	YAT-YAMW-1	WG	G			--	--		5	2		3						X	X	X	X	X		pH:
3	YAT-AMA-FD-1	WG	G			--	--		5	2		3						X	X	X	X	X		pH:
4	YAT-YGWC-36A	WG	G			--	--		5	2		3						X	X	X	X	X		pH:
5	YAT-YGWC-49	WG	G	2/9/23	1500	--	--		6	3		3						X	X	X	X	X		pH: 5.61 024
6	YAT-YGWC-38	WG	G			--	--		5	2		3						X	X	X	X	X		pH:
7	YAT-AMA-FD-2	WG	G			--	--		5	2		3						X	X	X	X	X		pH:
8	YAT-YGWC-41	WG	G			--	--		5	2		3						X	X	X	X	X		pH:
9	YAT-YGWC-42	WG	G			--	--		5	2		3						X	X	X	X	X		pH:
10	YAT-YGWC-43	WG	G			--	--		5	2		3						X	X	X	X	X		pH:
11	YAT-YAMW-2	WG	G			--	--		5	2		3						X	X	X	X	X		pH:
12	YAT-YAMW-3	WG	G			--	--		5	2		3						X	X	X	X	X		pH:

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mary Chris Chastain

SIGNATURE of SAMPLER: [signature] DATE Signed: 2/10/23

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : | Of

Section A — Required Client Information:

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

Section B — Required Project Information:

Report To: SCS Contacts
Copy To: Arcadis Contacts
Task No: YAT-CCR-ASSMT-202351
Purchase Order #:
Project Name: Plant Yates AMA-R6
Project Number:

Section C — Invoice Information:

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

Regulatory Agency:
State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	Residual Chlorine (Y/N)
1	YAT-YGWC-23S	WG	G			–	–		5	2		3							X	X	X	X	X	92651579
2	YAT-YAMW-1	WG	G			–	–		5	2		3							X	X	X	X	X	pH:
3	YAT-AMA-FD-1	WG	G			–	–		5	2		3							X	X	X	X	X	pH:
4	YAT-YGWC-36A	WG	G			–	–		5	2		3							X	X	X	X	X	pH:
5	YAT-YGWC-49	WG	G			–	–		5	2		3							X	X	X	X	X	pH:
6	YAT-YGWC-35	WG	G			–	–		5	2		3							X	X	X	X	X	pH:
7	YAT-AMA-FD-2	WG	G			–	–		5	2		3							X	X	X	X	X	pH:
8	YAT-YGWC-41	WG	G			–	–		5	2		3							X	X	X	X	X	pH:
9	YAT-YGWC-42	WG	G			–	–		5	2		3							X	X	X	X	X	pH:
10	YAT-YGWC-43	WG	G			–	–		5	2		3							X	X	X	X	X	pH:
11	YAT-YAMW-2	WG	G			–	–		5	2		3							X	X	X	X	X	pH:
12	YAT-YAMW-3	WG	G	2/9/23	1117	–	–		6	3		3							X	X	X	X	X	pH: 5.89 DLS

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solids SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS

Anions Suite 300.0 (Cl, F, Sulfate)

App III Metals: Boron 6020B, Ca 6010D

Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se)

7040A: Mercury (Hg). Also add Ca, Na, K for this event.

Alkalinity - report total, carbonate, and bicarbonate

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Jessica Ware /Arcadis	2/10/23	1400	Chandra Hunter	2/9/23	1408

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jessica Ware

SIGNATURE of SAMPLER: Jessica Ware

DATE Signed: 2/10/23

SAMPLE CONDITIONS

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

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

Abbreviations:
mg/L = milligrams per liter

Qualifiers:
UB = not detected due to blank contamination

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

April 14, 2023

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

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

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between February 09, 2023 and February 10, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

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

Sincerely,

Angela M. Baioni

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

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Noelia Gangi, Georgia Power
Geoffrey Gay, ARCADIS - Atlanta
Ben Hodges, Georgia Power-CCR
Kristen Jurinko
Laura Midkiff, Georgia Power
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Michael Smilley, Georgia Power
Becky Steever, Arcadis
Tina Sullivan, ERM
Albert Zumbuhl, Arcadis

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

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

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

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Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

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

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

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

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

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

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SAMPLE ANALYTE COUNT

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

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

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

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

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

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

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SUMMARY OF DETECTION

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

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

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SUMMARY OF DETECTION

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

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

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SUMMARY OF DETECTION

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

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

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SUMMARY OF DETECTION

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

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

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SUMMARY OF DETECTION

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

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

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SUMMARY OF DETECTION

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

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

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ANALYTICAL RESULTS - RADIOCHEMISTRY

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

Sample: YAT-YGWC-23S **Lab ID: 92651579001** Collected: 02/08/23 15:35 Received: 02/09/23 12:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.151 ± 0.127 (0.229) C:93% T:NA**	pCi/L	03/06/23 09:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.249 ± 0.299 (0.628) C:84% T:82%**	pCi/L	03/01/23 12:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.400 ± 0.426 (0.857)**	pCi/L	03/06/23 15:33	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

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

Sample: YAT-YGWC-42 **Lab ID: 92651579002** Collected: 02/08/23 17:36 Received: 02/09/23 12:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.227 ± 0.140 (0.208) C:91% T:NA**	pCi/L	03/06/23 09:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.590 ± 0.338 (0.606) C:84% T:87%**	pCi/L	03/01/23 12:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.817 ± 0.478 (0.814)**	pCi/L	03/06/23 15:33	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

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

Sample: YAT-PZ-37 **Lab ID: 92651579003** Collected: 02/08/23 09:46 Received: 02/09/23 12:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.257 ± 0.147 (0.201) C:88% T:NA**	pCi/L	03/06/23 09:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.485 ± 0.350 (0.679) C:84% T:84%**	pCi/L	03/01/23 12:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.742 ± 0.497 (0.880)**	pCi/L	03/06/23 15:33	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

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

Sample: YAT-AMA-R6-FD-3 **Lab ID: 92651579004** Collected: 02/08/23 00:00 Received: 02/09/23 12:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.272 ± 0.167 (0.271) C:88% T:NA**	pCi/L	03/06/23 09:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.292 ± 0.293 (0.600) C:81% T:85%**	pCi/L	03/01/23 12:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.564 ± 0.460 (0.871)**	pCi/L	03/06/23 15:33	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

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

Sample: YAT-PZ-37D **Lab ID: 92651579005** Collected: 02/08/23 13:48 Received: 02/09/23 12:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**1.75 ± 0.420 (0.231) C:88% T:NA**	pCi/L	03/06/23 09:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.621 ± 0.319 (0.549) C:83% T:96%**	pCi/L	03/01/23 12:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.37 ± 0.739 (0.780)**	pCi/L	03/06/23 15:33	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

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

Sample: YAT-PZ-52D **Lab ID: 92651579006** Collected: 02/08/23 11:16 Received: 02/09/23 12:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.126 ± 0.117 (0.217) C:90% T:NA**	pCi/L	03/06/23 09:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0922 ± 0.324 (0.733) C:81% T:88%**	pCi/L	03/01/23 12:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.218 ± 0.441 (0.950)**	pCi/L	03/06/23 15:33	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

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

Sample: YAT-AMA-R6-EB-1 **Lab ID: 92651579007** Collected: 02/08/23 18:40 Received: 02/09/23 12:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0843 ± 0.0958 (0.185) C:85% T:NA**	pCi/L	03/06/23 09:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.652 ± 0.447 (0.875) C:79% T:86%**	pCi/L	03/01/23 12:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.736 ± 0.543 (1.06)**	pCi/L	03/06/23 15:33	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

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

Sample: YAT-AMA-R6-FB-2 **Lab ID: 92651579008** Collected: 02/08/23 11:00 Received: 02/09/23 12:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**-0.00655 ± 0.111 (0.298) C:93% T:NA**	pCi/L	03/06/23 08:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.390 ± 0.337 (0.683) C:85% T:94%**	pCi/L	03/01/23 12:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.390 ± 0.448 (0.981)**	pCi/L	03/06/23 15:33	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

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

Sample: YAT-YGWC-38 **Lab ID: 92651579009** Collected: 02/08/23 09:30 Received: 02/09/23 12:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.116 ± 0.127 (0.254) C:89% T:NA**	pCi/L	03/06/23 08:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.245 ± 0.342 (0.735) C:83% T:90%**	pCi/L	03/01/23 12:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.361 ± 0.469 (0.989)**	pCi/L	03/06/23 15:33	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

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

Sample: YAT-AMA-R6-FD-2 **Lab ID: 92651579010** Collected: 02/08/23 00:00 Received: 02/09/23 12:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0510 ± 0.108 (0.253) C:85% T:NA**	pCi/L	03/06/23 08:50	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.903 ± 0.461 (0.825) C:83% T:82%**	pCi/L	03/01/23 12:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.954 ± 0.569 (1.08)**	pCi/L	03/06/23 15:33	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

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

Sample: YAT-YGWC-41 **Lab ID: 92651579011** Collected: 02/08/23 16:30 Received: 02/09/23 12:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0774 ± 0.101 (0.211) C:82% T:NA**	pCi/L	03/06/23 08:50	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.775 ± 0.383 (0.657) C:82% T:85%**	pCi/L	03/01/23 12:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.852 ± 0.484 (0.868)**	pCi/L	03/06/23 15:33	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

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

Sample: YAT-YGWC-43 **Lab ID: 92651579012** Collected: 02/08/23 18:00 Received: 02/09/23 12:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**2.79 ± 0.578 (0.196) C:84% T:NA**	pCi/L	03/06/23 08:53	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.938 ± 0.402 (0.639) C:78% T:90%**	pCi/L	03/01/23 16:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**3.73 ± 0.980 (0.835)**	pCi/L	03/06/23 16:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

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

Sample: YAT-YAMW-2 **Lab ID: 92651579013** Collected: 02/08/23 13:55 Received: 02/09/23 12:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0762 ± 0.133 (0.303) C:89% T:NA**	pCi/L	03/06/23 08:53	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0232 ± 0.333 (0.771) C:80% T:78%**	pCi/L	03/01/23 16:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.0994 ± 0.466 (1.07)**	pCi/L	03/06/23 16:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

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

Sample: YAT-YAMW-4 **Lab ID: 92651579014** Collected: 02/08/23 14:52 Received: 02/09/23 12:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0980 ± 0.110 (0.209) C:71% T:NA**	pCi/L	03/06/23 08:54	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.141 ± 0.283 (0.625) C:76% T:93%**	pCi/L	03/01/23 16:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.239 ± 0.393 (0.834)**	pCi/L	03/06/23 16:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

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

Sample: YAT-YAMW-5 **Lab ID: 92651579015** Collected: 02/08/23 10:58 Received: 02/09/23 12:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.333 ± 0.157 (0.182) C:93% T:NA**	pCi/L	03/06/23 08:54	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.169 ± 0.324 (0.713) C:73% T:84%**	pCi/L	03/01/23 16:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.502 ± 0.481 (0.895)**	pCi/L	03/06/23 16:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

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

Sample: YAT-YAMW-1 **Lab ID: 92651579016** Collected: 02/09/23 15:56 Received: 02/10/23 14:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.275 ± 0.152 (0.196) C:83% T:NA**	pCi/L	03/06/23 08:54	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.320 ± 0.320 (0.655) C:79% T:88%**	pCi/L	03/01/23 16:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.595 ± 0.472 (0.851)**	pCi/L	03/06/23 16:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

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

Sample: YAT-AMA-R6-FD-1 **Lab ID: 92651579017** Collected: 02/09/23 00:00 Received: 02/10/23 14:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.163 ± 0.136 (0.245) C:86% T:NA**	pCi/L	03/06/23 08:54	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.266 ± 0.340 (0.721) C:83% T:81%**	pCi/L	03/01/23 16:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.429 ± 0.476 (0.966)**	pCi/L	03/06/23 16:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

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

Sample: YAT-YGWC-36A **Lab ID: 92651579018** Collected: 02/09/23 13:10 Received: 02/10/23 14:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.178 ± 0.129 (0.207) C:83% T:NA**	pCi/L	03/06/23 08:54	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.148 ± 0.323 (0.717) C:80% T:85%**	pCi/L	03/01/23 16:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.326 ± 0.452 (0.924)**	pCi/L	03/06/23 16:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

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

Sample: YAT-AMA-R6-FB-1 **Lab ID: 92651579020** Collected: 02/09/23 16:55 Received: 02/10/23 14:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**-0.0519 ± 0.0489 (0.210) C:85% T:NA**	pCi/L	03/06/23 08:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0468 ± 0.328 (0.757) C:74% T:85%**	pCi/L	03/01/23 16:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.0468 ± 0.377 (0.967)**	pCi/L	03/06/23 16:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

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

Sample: YAT-YGWC-24SB **Lab ID: 92651579021** Collected: 02/10/23 09:45 Received: 02/10/23 14:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.137 ± 0.130 (0.245) C:79% T:NA**	pCi/L	03/06/23 08:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.0498 ± 0.327 (0.776) C:76% T:86%**	pCi/L	03/01/23 16:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.137 ± 0.457 (1.02)**	pCi/L	03/06/23 16:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

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

Sample: YAT-PZ-51 **Lab ID: 92651579022** Collected: 02/09/23 16:01 Received: 02/10/23 14:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.235 ± 0.133 (0.168) C:88% T:NA**	pCi/L	03/06/23 08:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.232 ± 0.322 (0.689) C:78% T:84%**	pCi/L	03/01/23 16:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.467 ± 0.455 (0.857)**	pCi/L	03/06/23 16:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

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

Sample: YAT-AMA-R6-EB-2 **Lab ID: 92651579023** Collected: 02/09/23 17:25 Received: 02/10/23 14:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0556 ± 0.0906 (0.200) C:84% T:NA**	pCi/L	03/06/23 08:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.177 ± 0.342 (0.753) C:76% T:81%**	pCi/L	03/01/23 16:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.233 ± 0.433 (0.953)**	pCi/L	03/06/23 16:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

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

Sample: YAT-YGWC-49 **Lab ID: 92651579024** Collected: 02/09/23 15:00 Received: 02/10/23 14:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.285 ± 0.157 (0.214) C:81% T:NA**	pCi/L	03/06/23 11:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.382 ± 0.352 (0.714) C:78% T:84%**	pCi/L	03/01/23 16:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.667 ± 0.509 (0.928)**	pCi/L	03/06/23 16:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

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

Sample: YAT-YAMW-3 **Lab ID: 92651579025** Collected: 02/09/23 11:17 Received: 02/10/23 14:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**1.33 ± 0.337 (0.199) C:94% T:NA**	pCi/L	03/06/23 11:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.860 ± 0.390 (0.648) C:84% T:89%**	pCi/L	03/01/23 16:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.19 ± 0.727 (0.847)**	pCi/L	03/06/23 16:18	7440-14-4	

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS - RADIOCHEMISTRY

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

Sample: YAT-PZ-35 **Lab ID: 92651578012** Collected: 02/09/23 14:48 Received: 02/10/23 14:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.190 ± 0.178 (0.351) C:92% T:NA**	pCi/L	03/03/23 08:45	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.528 ± 0.567 (1.19) C:81% T:89%**	pCi/L	02/28/23 19:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.718 ± 0.745 (1.54)**	pCi/L	03/06/23 14:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

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

QC Batch: 567131 Analysis Method: EPA 9320
QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92651579001, 92651579002, 92651579003, 92651579004, 92651579005, 92651579006, 92651579007, 92651579008, 92651579009, 92651579010, 92651579011

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

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

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QUALITY CONTROL - RADIOCHEMISTRY

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

QC Batch: 567130 Analysis Method: EPA 9315
QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92651579001, 92651579002, 92651579003, 92651579004, 92651579005, 92651579006, 92651579007, 92651579008, 92651579009, 92651579010, 92651579011

METHOD BLANK: 2754452 Matrix: Water
Associated Lab Samples: 92651579001, 92651579002, 92651579003, 92651579004, 92651579005, 92651579006, 92651579007, 92651579008, 92651579009, 92651579010, 92651579011

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

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QUALITY CONTROL - RADIOCHEMISTRY

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

QC Batch: 567129
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92651578012

METHOD BLANK: 2754449
Matrix: Water
Associated Lab Samples: 92651578012

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

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QUALITY CONTROL - RADIOCHEMISTRY

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

QC Batch: 567128
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92651578012

METHOD BLANK: 2754448 Matrix: Water
Associated Lab Samples: 92651578012

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

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QUALITY CONTROL - RADIOCHEMISTRY

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

QC Batch: 567132 Analysis Method: EPA 9315
QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92651579012, 92651579013, 92651579014, 92651579015, 92651579016, 92651579017, 92651579018, 92651579020, 92651579021, 92651579022, 92651579023, 92651579024, 92651579025

METHOD BLANK: 2754458 Matrix: Water
Associated Lab Samples: 92651579012, 92651579013, 92651579014, 92651579015, 92651579016, 92651579017, 92651579018, 92651579020, 92651579021, 92651579022, 92651579023, 92651579024, 92651579025

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

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QUALITY CONTROL - RADIOCHEMISTRY

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

QC Batch: 567134 Analysis Method: EPA 9320
QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92651579012, 92651579013, 92651579014, 92651579015, 92651579016, 92651579017, 92651579018, 92651579020, 92651579021, 92651579022, 92651579023, 92651579024, 92651579025

METHOD BLANK: 2754459 Matrix: Water
Associated Lab Samples: 92651579012, 92651579013, 92651579014, 92651579015, 92651579016, 92651579017, 92651579018, 92651579020, 92651579021, 92651579022, 92651579023, 92651579024, 92651579025

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

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QUALIFIERS

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

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

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

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

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

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

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Pace

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

Effective Date: 11/14/2022

boratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: G A Power

Project #:

WO# : 92651579

92651579

Courier: ☐ Commercial ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

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

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.1 Correction Factor: Add/Subtract (°C) +0.1

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

Cooler Temp Corrected (°C): 2.2

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

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ 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:

Dualtrax ID: 69614

WO# : 92651579

PM: BV Due Date: 03/02/23

CLIENT: GA-GA Power

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

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)	DG9M-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 2)	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																												

pH Adjustment Log for Preserved Samples

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

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 2

Section A — Required Client Information:

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

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Task No:	YAT-CCR-ASSMT-202301
Purchase Order #:	
Project Name:	Plant Yates AMA-R6
Project Number:	

Section C — Invoice Information:

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

Regulatory Agency:

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM22320B)	Residual Chlorine (Y/N)	926579
1	YAT-YGWC-23S	WG	G	2/8	1535	–	–		5	3		3							X	X	X	X	X		pH: 5.33 GVL
2	YAT-YAMW-1	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
3	YAT-AMA-FD-1	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
4	YAT-YGWC-36A	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
5	YAT-YGWC-49	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
6	YAT-YGWC-38	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
7	YAT-AMA-FD-2	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
8	YAT-YGWC-41	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
9	YAT-YGWC-42	WG	G	2/9	1730	–	–		6	3		3							X	X	X	X	X		pH:
10	YAT-YGWC-43	WG	G			–	–		5	2		3							X	X	X	X	X		pH: 5.48 GVL
11	YAT-YAMW-2	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
12	YAT-YAMW-3	WG	G			–	–		5	2		3							X	X	X	X	X		pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/9/23	0855		2/9/23	0855	
App III Metals: Boron 6020B, Ca 6010D		2/9/23	0920	Ryan Willis / Pace	2/9/23	0920	
Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate	Ryan Willis / Pace	2/9/23	1235		2/9/23	1235	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jessica Ware

SIGNATURE of SAMPLER: Jessica Ware DATE Signed: 2/9/23

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 of 2

Section A — Required Client Information:
Company: GA Power
Address: Atlanta, GA
Email To: laucoken@southernco.com
Phone: 470.620.6176 Fax:
Requested Due Date: STD TAT

Section B — Required Project Information:
Report To: SCS Contacts
Copy To: Arcadis Contacts
Task No: YAT-CCR-ASSMT-202301
Purchase Order #:
Project Name: Plant Yates AMA-R6
Project Number:

Section C — Invoice Information:
Attention: Southern Co.
Company Name:
Address:
Pace Quote:
Pace Project Manager: Bonnie Young
Pace Profile #: 10840

Regulatory Agency:
State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	Requested Analysis Filtered (Y/N): App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD B215/9320	Alkalinity (SM2320B)	Residual Chlorine (Y/N)	9265179
1	YAT-YAMW-4	WG	G			-	-		6	3		3							X	X	X	X	X		pH:
2	YAT-YAMW-5	WG	G			-	-		6	3		3							X	X	X	X	X		pH:
3	YAT-PZ-37	WG	G	2/8	0946	-	-		6	3		3							X	X	X	X	X		pH: 5.15 GDS
4	YAT-AMA-R6-FD-3	WG	G	2/8	—	-	-		6	3		3							X	X	X	X	X		pH: — GDS
5	YAT-PZ-37D	WG	G	2/8	1348	-	-		6	3		3							X	X	X	X	X		pH: 7.95 GDS
6	YAT-PZ-51	WG	G			-	-		6	3		3							X	X	X	X	X		pH:
7	YAT-PZ-52D	WG	G	2/8	1116	-	-		6	3		3							X	X	X	X	X		pH: 6.12 GDS
8	YAT-PZ-35	WG	G			-	-		6	3		3							X	X	X	X	X		pH:
9	YAT-AMA-R6-EB-1	WG	G	2/8	1840	-	-		6	3		3							X	X	X	X	X		pH: — GDS
10	YAT-AMA-R6-EB-2	WG	G			-	-		6	3		3							X	X	X	X	X		pH:
11	YAT-AMA-R6-FB-1	WG	G			-	-		6	3		3							X	X	X	X	X		pH:
12	YAT-AMA-R6-FB-2	WG	G	2/8	1100	-	-		6	3		3							X	X	X	X	X		pH: — GDS

ADDITIONAL COMMENTS

Anions Suite 300.0 (Cl, F, Sulfate)

App III Metals: Boron 6020B, Ca 6010D

App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). **Also add Ca, Na, K for this event.**
Alkalinity - report total, carbonate, and bicarbonate

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
(Arcadis)	2/9/23	0855		2/9/23	0855
	2/9/23	0920	Ryan Williams / Pace	2/9/23	0920
Ryan Williams / Pace	2/9/23	1235		2/9/23	1235

SAMPLER NAME AND SIGNATURE

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

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

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

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ ☑

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO# : 92651579

PM: BV Due Date: 03/02/23

CLIENT: GA-GA Power

Courier: ☐ Commercial ☑ Fed Ex ☐ UPS ☐ USPS ☑ Pace ☐ Other: ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

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

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

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

Cooler Temp: 2.1 Correction Factor: Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 2.2

USDA Regulated Soil (☐ N/A, water sample)

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

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ 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#: 92651579**

PM: BV Due Date: 03/02/23

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H2SO4 (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	BP3B-250 mL Plastic (NH4)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			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																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 1 Of 2

Section A – Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	laucoker@southernco.com
Phone:	470.620.6176 Fax:
Requested Due Date:	5-10 TAT

Section B – Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Task No:	YAT-CCR-ASSMT-202351
Purchase Order #:	
Project Name:	Plant Yates AMA-R6
Project Number:	

Section C – Invoice Information:

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

Regulatory Agency	
State / Location	Georgia

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	Residual Chlorine (Y/N)	926515 79
1	YAT-YGWC-23S	WG	G			–	–		5	2		3						X	X	X	X	X			pH:
2	YAT-YAMW-1	WG	G			–	–		5	2		3						X	X	X	X	X			pH:
3	YAT-AMA-FD-1	WG	G			–	–		5	2		3						X	X	X	X	X			pH:
4	YAT-YGWC-36A	WG	G			–	–		5	2		3						X	X	X	X	X			pH:
5	YAT-YGWC-49	WG	G			–	–		5	2		3						X	X	X	X	X			pH:
6	YAT-YGWC-38	WG	G	2/8/23	0430	–	–		5	2		3						X	X	X	X	X			pH: 5.16 GW
7	~~YAT-AMAFD-2~~ YAT-YAMW-R6-FD-2	WG	G	2/8/23	—	–	–		5	2		3						X	X	X	X	X			pH: — GW
8	YAT-YGWC-41	WG	G	2/8/23	1030	–	–		5	2		3						X	X	X	X	X			pH: 4.69 GW
9	YAT-YGWC-42	WG	G			–	–		5	2		3						X	X	X	X	X			pH:
10	YAT-YGWC-43	WG	G	2/8/23	1800	–	–		5	2		3						X	X	X	X	X			pH: 5.40 GW
11	YAT-YAMW-2	WG	G	2/8/23	1355	–	–		5	2		3						X	X	X	X	X			pH: 5.45 GW
12	YAT-YAMW-3	WG	G			–	–		5	2		3						X	X	X	X	X			pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/9/23	0900	/Pace	2/9/23	0900	
App III Metals: Boron 6020B, Ca 6010D	Kim Lapszynski/Arc	2/9/23	0920	Ryan Williams/Pace	2/9/23	0920	
Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg) **Also add Ca, Na, K for this event.** **Alkalinity – report total, carbonate, and bicarbonate**	Ryan Williams/Pace	2/9/23	1235	Connie Henke	2/9/23	1235	

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Kim Lapszynski					
SIGNATURE of SAMPLER:		DATE Signed: 2/9/23				

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-202351	Address:	
Email To:	laucoker@southernco.com	Purchase Order #		Pace Quote:	
Phone:	470.620.6176 Fax:	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	Bonnie Wang
Requested Due Date:	STAT	Project Number:		Pace Profile #:	10840

Regulatory Agency
State / Location
Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	Residual Chlorine (Y/N)	92651579
1	YAT-YAMW-4	WG	G	7/6/23	1152	–	–		6	3		3							X	X	X	X	X			pH: 6.49 1614
2	YAT-YAMW-5	WG	G	7/5/23	1058	–	–		6	3		3							X	X	X	X	X			pH: 5.67 0915
3	YAT-PZ-37	WG	G			–	–		6	3		3							X	X	X	X	X			pH:
4	YAT-AMA-R6-FD-3	WG	G			–	–		6	3		3							X	X	X	X	X			pH:
5	YAT-PZ-37D	WG	G			–	–		6	3		3							X	X	X	X	X			pH:
6	YAT-PZ-51	WG	G			–	–		6	3		3							X	X	X	X	X			pH:
7	YAT-PZ-52D	WG	G			–	–		6	3		3							X	X	X	X	X			pH:
8	YAT-PZ-35	WG	G			–	–		6	3		3							X	X	X	X	X			pH:
9	YAT-AMA-R6-EB-1	WG	G			–	–		6	3		3							X	X	X	X	X			pH:
10	YAT-AMA-R6-EB-2	WG	G			–	–		6	3		3							X	X	X	X	X			pH:
11	YAT-AMA-R6-FB-1	WG	G			–	–		6	3		3							X	X	X	X	X			pH:
12	YAT-AMA-R6-FB-2	WG	G			–	–		6	3		3							X	X	X	X	X			pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	7/9/23	0900		7/9/23	0900	
App III Metals: Boron 6020B, Ca 6010D	Kim Lapszynski	7/9/23	0920	Ryan Williams / Pace	7/9/23	0920	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A Mercury (Hg) Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate	Ryan Williams / Pace	7/9/23	1235		7/9/23	1235	

SAMPLER NAME AND SIGNATURE				TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	(Arcadis): Kim Lapszynski						
SIGNATURE of SAMPLER:	(Arcadis):	DATE Signed:	7/9/23				

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 3

Section A — Required Client Information:

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

Section B — Required Project Information:

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

Section C — Invoice Information:

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

Regulatory Agency:

State / Location: Georgia

SAMPLE ID
One Character per box. (A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	92651579
1	YAT-YGWC-23S	WG	G			--	--		5	2		3						App III/IV Metals	x x x x x		pH:
2	YAT-YAMW-1	WG	G	2/9/23	1530	--	--	6.0	2			3						Cl, F, SO4	x x x x x		pH: 5.73
3	~~YAT-AMA-FD-1~~ YAT-AMA-R6-FD-1	WG	G	2/9/23	—	--	--	6.0	2			3						TDS (2540C)	x x x x x		pH: —
4	YAT-YGWC-36A	WG	G	2/9/23	1310	--	--	6.0	2			3						RAD 9315/9320	x x x x x		pH: 5.67
5	YAT-YGWC-49	WG	G			--	--		5	2		3						Alkalinity (SM2320B)	x x x x x		pH:
6	YAT-YGWC-38	WG	G			--	--		5	2		3							x x x x x		pH:
7	YAT-AMA-FD-2	WG	G			--	--		5	2		3							x x x x x		pH:
8	YAT-YGWC-41	WG	G			--	--		5	2		3							x x x x x		pH:
9	YAT-YGWC-42	WG	G			--	--		5	2		3							x x x x x		pH:
10	YAT-YGWC-43	WG	G			--	--		5	2		3							x x x x x		pH:
11	YAT-YAMW-2	WG	G			--	--		5	2		3							x x x x x		pH:
12	YAT-YAMW-3	WG	G			--	--		5	2		3							x x x x x		pH:

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kim Lopezynski

SIGNATURE of SAMPLER: DATE Signed: 2/10/23

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

WO#: 92651579

PM: BV Due Date: 03/02/23

CLIENT: GA-GA Power

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 Of 3

Section A
Required Client Information:

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

Section B
Required Project Information:

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

Section C
Invoice Information:

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

Regulatory Agency:

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test: App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	Residual Chlorine (Y/N)	92651579
1	YAT-YAMW-4	WG	G			-	-		6	3		3						X	X	X	X	X		pH:
2	YAT-YAMW-5	WG	G			-	-		6	3		3						X	X	X	X	X		pH:
3	YAT-PZ-37	WG	G			-	-		6	3		3						X	X	X	X	X		pH:
4	YAT-AMA-R6-FD-3	WG	G			-	-		6	3		3						X	X	X	X	X		pH:
5	YAT-PZ-37D	WG	G			-	-		6	3		3						X	X	X	X	X		pH:
6	YAT-PZ-51	WG	G			-	-		6	3		3						X	X	X	X	X		pH:
7	YAT-PZ-52D	WG	G	2/9/23	1148	-	-		6	3		3						X	X	X	X	X		pH:
8	YAT-PZ-35	WG	G			-	-		6	3		3						X	X	X	X	X		pH: 0.19
9	YAT-AMA-R6-EB-1	WG	G			-	-		6	3		3						X	X	X	X	X		pH: 5.50
10	YAT-AMA-R6-EB-2	WG	G			-	-		6	3		3						X	X	X	X	X		pH:
11	YAT-AMA-R6-FB-1	WG	G	2/9/23	1055	-	-		6	3		3						X	X	X	X	X		pH:
12	YAT-AMA-R6-FB-2	WG	G			-	-		6	3		3						X	X	X	X	X		pH: 6.20

Matrix codes: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/10/23	1700	/Arcadis	2/10/23	1200	
App III Metals: Boron 6020B, Ca 6010D							
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate		2/10/23	1400		2/10/23	1400	

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	(Arcadis) -					
SIGNATURE of SAMPLER:	(Arcadis) -	DATE Signed: 2/10/23				

WO#: 92651579

PM: BV Due Date: 03/02/23

CLIENT: GA-GA Power

Page : 3 of 3

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-302351	Address:	
Email To:	laucaker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax:	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	Bonnie Young
Requested Due Date:	Std TAT	Project Number:		Pace Profile #:	10840

Regulatory Agency
State / Location
Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	Residual Chlorine (Y/N)	92851575
1	YAT-YGWC-24SB	WG	G	2/10/23	0845	-	-		6	3		3							X	X	X	X	X		pH: 5.67 OL
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/10/23	1200	/Arcadis	2/10/23	1200	
App III Metals: Boron 6020B, Ca 6010D							
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). **Also add Ca, Na, K for this event.** Alkalinity - report total, carbonate, and bicarbonate		2/10/23	1400		2/10/23	1401	

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	(Arcadis) - Kim Laszynski					
SIGNATURE of SAMPLER:	(Arcadis)	DATE Signed: 2/10/23				

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 Of 2

Section A — Required Client Information:

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

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Task No:	YAT-CCR-ASSMT-2022351
Purchase Order #:	
Project Name:	Plant Yates AMA-R6
Project Number:	

Section C — Invoice Information:

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

Regulatory Agency:

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N): Y/N	Analysis Test	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	Residual Chlorine (Y/N)	9265179
1	YAT-YAMW-4	WG	G			--	--		6	3		3								X	X	X	X	X		pH:
2	YAT-YAMW-5	WG	G			--	--		6	3		3								X	X	X	X	X		pH:
3	YAT-PZ-37	WG	G			--	--		6	3		3								X	X	X	X	X		pH:
4	YAT-AMA-R6-FD-3	WG	G			--	--		6	3		3								X	X	X	X	X		pH:
5	YAT-PZ-37D	WG	G			--	--		6	3		3								X	X	X	X	X		pH:
6	YAT-PZ-51	WG	G	2/9	1601	--	--		6	3		3								X	X	X	X	X		pH: 5.14 022
7	YAT-PZ-52D	WG	G			--	--		6	3		3								X	X	X	X	X		pH:
8	YAT-PZ-35	WG	G			--	--		6	3		3								X	X	X	X	X		pH:
9	YAT-AMA-R6-EB-1	WG	G			--	--		6	3		3								X	X	X	X	X		pH:
10	YAT-AMA-R6-EB-2	WG	G	2/9/23	1725	--	--		6	3		3								X	X	X	X	X		pH:
11	YAT-AMA-R6-FB-1	WG	G			--	--		6	3		3								X	X	X	X	X		pH: 023
12	YAT-AMA-R6-FB-2	WG	G			--	--		6	3		3								X	X	X	X	X		pH:

Matrix codes: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

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

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	(Arcadis) Jessica Ware					
SIGNATURE of SAMPLER:	(Arcadis)	DATE Signed: 2/10/23				

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A — Required Client Information:

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

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Task No:	YAT-CCR-ASSMT-202351
Purchase Order #:	
Project Name:	Plant Yates AMA-R6
Project Number:	

Section C — Invoice Information:

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

Regulatory Agency: —

State / Location: Georgia

Requested Analysis Filtered (Y/N): Y/N

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (Insert value from left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test: App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	Residual Chlorine (Y/N)
	MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS																						
1	YAT-YGWC-23S	WG	G			--	--		5	2		3						X	X	X	X	X	92651579
2	YAT-YAMW-1	WG	G			--	--		5	2		3						X	X	X	X	X	pH:
3	YAT-AMA-FD-1	WG	G			--	--		5	2		3						X	X	X	X	X	pH:
4	YAT-YGWC-36A	WG	G			--	--		5	2		3						X	X	X	X	X	pH:
5	YAT-YGWC-49	WG	G	2/9/23	1500	--	--		6	3		3						X	X	X	X	X	pH:
6	YAT-YGWC-38	WG	G			--	--		5	2		3						X	X	X	X	X	pH: 5.61 024
7	YAT-AMA-FD-2	WG	G			--	--		5	2		3						X	X	X	X	X	pH:
8	YAT-YGWC-41	WG	G			--	--		5	2		3						X	X	X	X	X	pH:
9	YAT-YGWC-42	WG	G			--	--		5	2		3						X	X	X	X	X	pH:
10	YAT-YGWC-43	WG	G			--	--		5	2		3						X	X	X	X	X	pH:
11	YAT-YAMW-2	WG	G			--	--		5	2		3						X	X	X	X	X	pH:
12	YAT-YAMW-3	WG	G			--	--		5	2		3						X	X	X	X	X	pH:

ADDITIONAL COMMENTS

Anions Suite 300.0 (Cl, F, Sulfate)

App III Metals: Boron 6020B, Ca 6010D

Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A; Mercury (Hg). **Also add Ca, Na, K for this event.**

Alkalinity - report total, carbonate, and bicarbonate

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Matt Chase /Arcadis	2/10/23	1200	Jennifer Van /Arcadis	2/10/23	1200
Jessica Rhodes /Arcadis	2/10/23	1400	Claire Fenton	2/10/23	1400

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Matt Chase (Arcadis)

SIGNATURE of SAMPLER: [signature] DATE Signed: 2/10/23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : Of

Section A — Required Client Information:

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

Section B — Required Project Information:

Report To: SCS Contacts
Copy To: Arcadis Contacts
Task No: YAT-CCR-ASSMT-202351
Purchase Order #:
Project Name: Plant Yates AMA-R6
Project Number:

Section C — Invoice Information:

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

Regulatory Agency:
State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	Residual Chlorine (Y/N)
1	YAT-YGWC-23S	WG	G			–	–		5	2		3							X	X	X	X	X	92651579
2	YAT-YAMW-1	WG	G			–	–		5	2		3							X	X	X	X	X	pH:
3	YAT-AMA-FD-1	WG	G			–	–		5	2		3							X	X	X	X	X	pH:
4	YAT-YGWC-36A	WG	G			–	–		5	2		3							X	X	X	X	X	pH:
5	YAT-YGWC-49	WG	G			–	–		5	2		3							X	X	X	X	X	pH:
6	YAT-YGWC-35	WG	G			–	–		5	2		3							X	X	X	X	X	pH:
7	YAT-AMA-FD-2	WG	G			–	–		5	2		3							X	X	X	X	X	pH:
8	YAT-YGWC-41	WG	G			–	–		5	2		3							X	X	X	X	X	pH:
9	YAT-YGWC-42	WG	G			–	–		5	2		3							X	X	X	X	X	pH:
10	YAT-YGWC-43	WG	G			–	–		5	2		3							X	X	X	X	X	pH:
11	YAT-YAMW-2	WG	G			–	–		5	2		3							X	X	X	X	X	pH:
12	YAT-YAMW-3	WG	G	2/9/23	1117	–	–		6	3		3							X	X	X	X	X	pH: 5.89 DLS

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solids SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS

Arsenic Suite 300.0 (Cl, F, Sulfate)

App III Metals: Boron 6020B, Ca 6010D, Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). **Also add Ca, Na, K for this event.**
Alkalinity - report total, carbonate, and bicarbonate

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Jessica Ware /Arcadis	2/10/23	1400	Chandra Hunter	2/9/23	1408
	2/10/23	1445			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jessica Ware
SIGNATURE of SAMPLER: Jessica Ware
DATE Signed: 2/10/23

SAMPLE CONDITIONS

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

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test: Ra-228
Analyst: JJS1
Date: 2/27/2023
Worklist: 71484
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2754456
MB concentration:	0.301
M/B 2 Sigma CSU:	0.288
MB MDC:	0.581
MB Numerical Performance Indicator:	2.05
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS71484	LCSD71484
Count Date:	3/1/2023	3/1/2023
Spike I.D.:	22-040	22-040
Decay Corrected Spike Concentration (pCi/mL):	33.389	33.389
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.807	0.809
Target Conc. (pCi/L, g, F):	4.139	4.127
Uncertainty (Calculated):	0.203	0.202
Result (pCi/L, g, F):	4.239	3.636
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.991	0.862
Numerical Performance Indicator:	0.19	-1.09
Percent Recovery:	102.40%	88.09%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

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.:	LCS71484	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD71484	
Sample Result (pCi/L, g, F):	4.239	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.991	
Sample Duplicate Result (pCi/L, g, F):	3.636	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.862	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.899	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	15.02%	
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 3/2/23

3/2/23

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	JGH
Date:	2/27/2023
Worklist:	71486
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2754459
MB concentration:	-0.267
M/B 2 Sigma CSU:	0.220
MB MDC:	0.602
MB Numerical Performance Indicator:	-2.37
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS71486	LCSD71486
Count Date:	3/1/2023	3/1/2023
Spike I.D.:	22-040	22-040
Decay Corrected Spike Concentration (pCi/mL):	33.388	33.388
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.805	0.806
Target Conc. (pCi/L, g, F):	4.146	4.144
Uncertainty (Calculated):	0.203	0.203
Result (pCi/L, g, F):	2.972	3.505
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.774	0.834
Numerical Performance Indicator:	-2.87	-1.46
Percent Recovery:	71.69%	84.58%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

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.:	LCS71486	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD71486	
Sample Result (pCi/L, g, F):	2.972	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.774	
Sample Duplicate Result (pCi/L, g, F):	3.505	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.834	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.918	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	16.49%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

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:

NU 3/6/23

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	2/24/2023
Worklist:	71483
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2754452
MB concentration:	-0.027
M/B 2 Sigma CSU:	0.086
MB MDC:	0.277
MB Numerical Performance Indicator:	-0.62
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS71483	LCSD71483
Count Date:	3/6/2023	3/6/2023
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.019	24.019
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.504	0.505
Target Conc. (pCi/L, g, F):	4.767	4.755
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	5.059	4.773
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.918	0.884
Numerical Performance Indicator:	0.62	0.04
Percent Recovery:	106.12%	100.37%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

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.:	LCS71483	92651607001
Duplicate Sample I.D.	LCSD71483	92651607001DUP
Sample Result (pCi/L, g, F):	5.059	0.193
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.918	0.152
Sample Duplicate Result (pCi/L, g, F):	4.773	0.055
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.884	0.103
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.440	1.471
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	5.57%	111.19%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

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 3-6-23

VAM 3/16/23

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	2/24/2023
Worklist:	71485
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2754458
MB concentration:	0.041
M/B Counting Uncertainty:	0.092
MB MDC:	0.219
MB Numerical Performance Indicator:	0.87
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS71485	LCSD71485
Count Date:	3/6/2023	3/6/2023
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.019	24.019
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.503	0.502
Target Conc. (pCi/L, g, F):	4.773	4.784
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	5.338	5.531
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.548	0.540
Numerical Performance Indicator:	2.01	2.70
Percent Recovery:	111.84%	115.61%
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.:	LCS71485	92651579012
Duplicate Sample I.D.	LCSD71485	92651579012DUP
Sample Result (pCi/L, g, F):	5.338	2.791
Sample Result Counting Uncertainty (pCi/L, g, F):	0.548	0.414
Sample Duplicate Result (pCi/L, g, F):	5.531	3.168
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.540	0.432
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-0.491	-1.235
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	3.31%	12.65%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Pass
% RPD Limit:	25%	25%

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 3-6-23

VAM 3/6/23

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

April 18, 2023

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

RE: Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between February 09, 2023 and February 10, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

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

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Noelia Gangi, Georgia Power
Geoffrey Gay, ARCADIS - Atlanta
Ben Hodges, Georgia Power-CCR
Kristen Jurinko
Laura Midkiff, Georgia Power
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Michael Smilley, Georgia Power
Becky Steever, Arcadis
Tina Sullivan, ERM
Albert Zumbuhl, Arcadis

REPORT OF LABORATORY ANALYSIS

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Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Pace Analytical Services Charlotte
South Carolina Laboratory ID: 99006
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001

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SAMPLE SUMMARY

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92651580001	**YAT-YGWC-23S**	Water	02/08/23 15:35	02/09/23 12:35
92651580002	**YAT-YGWC-42**	Water	02/08/23 17:36	02/09/23 12:35
92651580003	**YAT-PZ-37**	Water	02/08/23 09:46	02/09/23 12:35
92651580004	**YAT-AMA-R6-FD-3**	Water	02/08/23 00:00	02/09/23 12:35
92651580005	**YAT-PZ-37D**	Water	02/08/23 13:48	02/09/23 12:35
92651580006	**YAT-PZ-52D**	Water	02/08/23 11:16	02/09/23 12:35
92651580007	**YAT-AMA-R6-EB-1**	Water	02/08/23 18:40	02/09/23 12:35
92651580008	**YAT-AMA-R6-FB-2**	Water	02/08/23 11:00	02/09/23 12:35
92651580009	**YAT-YGWC-38**	Water	02/08/23 09:30	02/09/23 12:35
92651580010	**YAT-AMA-R6-FD-2**	Water	02/08/23 00:00	02/09/23 12:35
92651580011	**YAT-YGWC-41**	Water	02/08/23 16:30	02/09/23 12:35
92651580012	**YAT-YGWC-43**	Water	02/08/23 18:00	02/09/23 12:35
92651580013	**YAT-YAMW-2**	Water	02/08/23 13:55	02/09/23 12:35
92651580014	**YAT-YAMW-4**	Water	02/08/23 14:52	02/09/23 12:35
92651580015	**YAT-YAMW-5**	Water	02/08/23 10:58	02/09/23 12:35
92651580016	**YAT-YAMW-1**	Water	02/09/23 15:56	02/10/23 14:00
92651580017	**YAT-AMA-R6-FD-1**	Water	02/09/23 00:00	02/10/23 14:00
92651580018	**YAT-YGWC-36A**	Water	02/09/23 13:10	02/10/23 14:00
92651580020	**YAT-AMA-R6-FB-1**	Water	02/09/23 16:55	02/10/23 14:00
92651580021	**YAT-YGWC-24SB**	Water	02/10/23 09:45	02/10/23 14:00
92651580022	**YAT-PZ-51**	Water	02/09/23 16:01	02/10/23 14:00
92651580023	**YAT-AMA-R6-EB-2**	Water	02/09/23 17:25	02/10/23 14:00
92651580024	**YAT-YGWC-49**	Water	02/09/23 15:00	02/10/23 14:00
92651580025	**YAT-YAMW-3**	Water	02/09/23 11:17	02/10/23 14:00
92651576012	**YAT-PZ-35**	Water	02/09/23 14:48	02/10/23 14:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92651580001	**YAT-YGWC-23S**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651580002	**YAT-YGWC-42**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651580003	**YAT-PZ-37**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651580004	**YAT-AMA-R6-FD-3**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651580005	**YAT-PZ-37D**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651580006	**YAT-PZ-52D**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651580007	**YAT-AMA-R6-EB-1**	EPA 6010D	MS	4

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SAMPLE ANALYTE COUNT

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

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	JCM	3
92651580008	**YAT-AMA-R6-FB-2**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651580009	**YAT-YGWC-38**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651580010	**YAT-AMA-R6-FD-2**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651580011	**YAT-YGWC-41**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651580012	**YAT-YGWC-43**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651580013	**YAT-YAMW-2**	EPA 6010D	MS	4
		EPA 6020B	CW1	13

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SAMPLE ANALYTE COUNT

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

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
92651580014	**YAT-YAMW-4**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651580015	**YAT-YAMW-5**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651580016	**YAT-YAMW-1**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651580017	**YAT-AMA-R6-FD-1**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651580018	**YAT-YGWC-36A**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651580020	**YAT-AMA-R6-FB-1**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1

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Peachtree Corners, GA 30092
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SAMPLE ANALYTE COUNT

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651580021	**YAT-YGWC-24SB**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651580022	**YAT-PZ-51**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651580023	**YAT-AMA-R6-EB-2**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651580024	**YAT-YGWC-49**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651580025	**YAT-YAMW-3**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651576012	**YAT-PZ-35**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1

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SAMPLE ANALYTE COUNT

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3

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

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SUMMARY OF DETECTION

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651580001	**YAT-YGWC-23S**					
	Performed by	Client			03/03/23 10:09	
	Collected By	Jessica Ware			03/03/23 10:09	
	Collected Date	02/08/23			03/03/23 10:09	
	Collected Time	15:35			03/03/23 10:09	
	pH	5.33	Std. Units		03/03/23 10:09	
EPA 6010D	Calcium	10.9	mg/L	1.0	02/22/23 17:51	
EPA 6010D	Potassium	1.1	mg/L	0.20	02/22/23 17:51	
EPA 6010D	Sodium	14.6	mg/L	1.0	02/22/23 17:51	
EPA 6010D	Magnesium	8.9	mg/L	0.050	02/22/23 17:51	
EPA 6020B	Barium	0.053	mg/L	0.0050	02/24/23 12:57	
EPA 6020B	Beryllium	0.00022J	mg/L	0.00050	02/24/23 12:57	
EPA 6020B	Boron	1.6	mg/L	0.040	02/24/23 12:57	
EPA 6020B	Chromium	0.0014J	mg/L	0.0050	02/24/23 12:57	
EPA 6020B	Lithium	0.0028J	mg/L	0.030	02/24/23 12:57	
EPA 6020B	Selenium	0.035	mg/L	0.0050	02/24/23 12:57	
SM 2540C-2015	Total Dissolved Solids	158	mg/L	25.0	02/13/23 16:49	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	10.0	mg/L	5.0	02/16/23 19:39	
SM 2320B-2011	Alkalinity, Total as CaCO3	10.0	mg/L	5.0	02/16/23 19:39	
EPA 300.0 Rev 2.1 1993	Chloride	2.0	mg/L	1.0	02/11/23 17:05	
EPA 300.0 Rev 2.1 1993	Sulfate	78.0	mg/L	1.0	02/11/23 17:05	M1
92651580002	**YAT-YGWC-42**					
	Performed by	Client			03/03/23 10:10	
	Collected By	Jessica Ware			03/03/23 10:10	
	Collected Date	02/08/23			03/03/23 10:10	
	Collected Time	17:36			03/03/23 10:10	
	pH	5.48	Std. Units		03/03/23 10:10	
EPA 6010D	Calcium	74.6	mg/L	1.0	02/22/23 17:56	
EPA 6010D	Potassium	10.9	mg/L	0.20	02/22/23 17:56	
EPA 6010D	Sodium	32.9	mg/L	1.0	02/22/23 17:56	
EPA 6010D	Magnesium	77.7	mg/L	0.050	02/22/23 17:56	
EPA 6020B	Arsenic	0.0025J	mg/L	0.0050	02/24/23 13:03	
EPA 6020B	Barium	0.023	mg/L	0.0050	02/24/23 13:03	
EPA 6020B	Beryllium	0.000062J	mg/L	0.00050	02/24/23 13:03	
EPA 6020B	Boron	14.5	mg/L	0.40	02/25/23 14:00	
EPA 6020B	Cadmium	0.00014J	mg/L	0.00050	02/24/23 13:03	
EPA 6020B	Cobalt	0.0018J	mg/L	0.0050	02/24/23 13:03	
EPA 6020B	Lithium	0.046	mg/L	0.030	02/24/23 13:03	
EPA 6020B	Molybdenum	0.00081J	mg/L	0.010	02/24/23 13:03	
EPA 6020B	Selenium	0.041	mg/L	0.0050	02/24/23 13:03	
SM 2540C-2015	Total Dissolved Solids	853	mg/L	25.0	02/13/23 16:49	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	34.3	mg/L	5.0	02/16/23 19:44	
SM 2320B-2011	Alkalinity, Total as CaCO3	34.3	mg/L	5.0	02/16/23 19:44	
EPA 300.0 Rev 2.1 1993	Chloride	3.4	mg/L	1.0	02/11/23 17:48	
EPA 300.0 Rev 2.1 1993	Fluoride	0.080J	mg/L	0.10	02/11/23 17:48	
EPA 300.0 Rev 2.1 1993	Sulfate	494	mg/L	10.0	02/12/23 04:30	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651580003	**YAT-PZ-37**					
	Performed by	Client			03/03/23 10:11	
	Collected By	Jessica Ware			03/03/23 10:11	
	Collected Date	02/08/23			03/03/23 10:11	
	Collected Time	09:46			03/03/23 10:11	
	pH	5.15	Std. Units		03/03/23 10:11	
EPA 6010D	Calcium	95.9	mg/L	1.0	02/22/23 18:00	
EPA 6010D	Potassium	4.6	mg/L	0.20	02/22/23 18:00	
EPA 6010D	Sodium	27.6	mg/L	1.0	02/22/23 18:00	
EPA 6010D	Magnesium	50.7	mg/L	0.050	02/22/23 18:00	
EPA 6020B	Barium	0.022	mg/L	0.0050	02/24/23 13:09	
EPA 6020B	Beryllium	0.0011	mg/L	0.00050	02/24/23 13:09	
EPA 6020B	Boron	8.2	mg/L	0.040	02/24/23 13:09	
EPA 6020B	Cadmium	0.00076	mg/L	0.00050	02/24/23 13:09	
EPA 6020B	Cobalt	0.0022J	mg/L	0.0050	02/24/23 13:09	
EPA 6020B	Lithium	0.013J	mg/L	0.030	02/24/23 13:09	
EPA 6020B	Selenium	0.16	mg/L	0.0050	02/24/23 13:09	
SM 2540C-2015	Total Dissolved Solids	822	mg/L	25.0	02/13/23 16:50	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	13.2	mg/L	5.0	02/16/23 19:51	
SM 2320B-2011	Alkalinity, Total as CaCO3	13.2	mg/L	5.0	02/16/23 19:51	
EPA 300.0 Rev 2.1 1993	Chloride	3.8	mg/L	1.0	02/11/23 18:03	
EPA 300.0 Rev 2.1 1993	Sulfate	449	mg/L	10.0	02/12/23 04:44	
92651580004	**YAT-AMA-R6-FD-3**					
EPA 6010D	Calcium	97.3	mg/L	1.0	02/22/23 18:05	
EPA 6010D	Potassium	4.5	mg/L	0.20	02/22/23 18:05	
EPA 6010D	Sodium	27.9	mg/L	1.0	02/22/23 18:05	
EPA 6010D	Magnesium	51.1	mg/L	0.050	02/22/23 18:05	
EPA 6020B	Barium	0.021	mg/L	0.0050	02/24/23 13:15	
EPA 6020B	Beryllium	0.0011	mg/L	0.00050	02/24/23 13:15	
EPA 6020B	Boron	7.7	mg/L	0.040	02/24/23 13:15	
EPA 6020B	Cadmium	0.00069	mg/L	0.00050	02/24/23 13:15	
EPA 6020B	Cobalt	0.0020J	mg/L	0.0050	02/24/23 13:15	
EPA 6020B	Lithium	0.012J	mg/L	0.030	02/24/23 13:15	
EPA 6020B	Selenium	0.15	mg/L	0.0050	02/24/23 13:15	
SM 2540C-2015	Total Dissolved Solids	884	mg/L	25.0	02/13/23 16:51	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	12.8	mg/L	5.0	02/16/23 19:57	
SM 2320B-2011	Alkalinity, Total as CaCO3	12.8	mg/L	5.0	02/16/23 19:57	
EPA 300.0 Rev 2.1 1993	Chloride	3.8	mg/L	1.0	02/11/23 18:17	
EPA 300.0 Rev 2.1 1993	Sulfate	453	mg/L	10.0	02/12/23 04:58	
92651580005	**YAT-PZ-37D**					
	Performed by	Client			03/03/23 10:12	
	Collected By	Jessica Ware			03/03/23 10:12	
	Collected Date	02/08/23			03/03/23 10:12	
	Collected Time	13:48			03/03/23 10:12	
	pH	7.95	Std. Units		03/03/23 10:12	
EPA 6010D	Calcium	55.2	mg/L	1.0	02/22/23 18:10	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651580005	**YAT-PZ-37D**					
EPA 6010D	Potassium	12.4	mg/L	0.20	02/22/23 18:10	
EPA 6010D	Sodium	72.9	mg/L	1.0	02/22/23 18:10	
EPA 6010D	Magnesium	10.1	mg/L	0.050	02/22/23 18:10	
EPA 6020B	Antimony	0.0015J	mg/L	0.0030	02/24/23 13:39	
EPA 6020B	Barium	0.018	mg/L	0.0050	02/24/23 13:39	
EPA 6020B	Boron	0.70	mg/L	0.040	02/24/23 13:39	
EPA 6020B	Lithium	0.0088J	mg/L	0.030	02/24/23 13:39	
EPA 6020B	Molybdenum	0.0024J	mg/L	0.010	02/24/23 13:39	
SM 2540C-2015	Total Dissolved Solids	477	mg/L	25.0	02/13/23 16:52	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	131	mg/L	5.0	02/16/23 20:03	
SM 2320B-2011	Alkalinity, Total as CaCO3	131	mg/L	5.0	02/16/23 20:03	
EPA 300.0 Rev 2.1 1993	Chloride	33.5	mg/L	1.0	02/11/23 19:01	
EPA 300.0 Rev 2.1 1993	Fluoride	0.20	mg/L	0.10	02/11/23 19:01	
EPA 300.0 Rev 2.1 1993	Sulfate	177	mg/L	4.0	02/12/23 05:14	
92651580006	**YAT-PZ-52D**					
	Performed by	Client			03/03/23 10:27	
	Collected By	Jessica Ware			03/03/23 10:27	
	Collected Date	02/08/23			03/03/23 10:27	
	Collected Time	11:16			03/03/23 10:27	
	pH	6.12	Std. Units		03/03/23 10:27	
EPA 6010D	Calcium	22.9	mg/L	1.0	02/22/23 18:15	
EPA 6010D	Potassium	7.8	mg/L	0.20	02/22/23 18:15	
EPA 6010D	Sodium	45.0	mg/L	1.0	02/22/23 18:15	
EPA 6010D	Magnesium	44.4	mg/L	0.050	02/22/23 18:15	
EPA 6020B	Arsenic	0.0032J	mg/L	0.0050	02/24/23 14:24	
EPA 6020B	Barium	0.012	mg/L	0.0050	02/24/23 14:24	
EPA 6020B	Boron	1.2	mg/L	0.040	02/24/23 14:24	
EPA 6020B	Cobalt	0.0026J	mg/L	0.0050	02/24/23 14:24	
EPA 6020B	Lithium	0.025J	mg/L	0.030	02/24/23 14:24	
EPA 6020B	Molybdenum	0.0050J	mg/L	0.010	02/24/23 14:24	
EPA 6020B	Selenium	0.0057	mg/L	0.0050	02/24/23 14:24	
SM 2540C-2015	Total Dissolved Solids	542	mg/L	25.0	02/13/23 16:52	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	36.2	mg/L	5.0	02/16/23 20:13	
SM 2320B-2011	Alkalinity, Total as CaCO3	36.2	mg/L	5.0	02/16/23 20:13	
EPA 300.0 Rev 2.1 1993	Chloride	2.0	mg/L	1.0	02/11/23 19:15	
EPA 300.0 Rev 2.1 1993	Fluoride	0.070J	mg/L	0.10	02/11/23 19:15	
EPA 300.0 Rev 2.1 1993	Sulfate	279	mg/L	6.0	02/12/23 05:28	
92651580007	**YAT-AMA-R6-EB-1**					
EPA 6020B	Arsenic	0.0034J	mg/L	0.0050	02/24/23 14:30	
92651580008	**YAT-AMA-R6-FB-2**					
EPA 6020B	Arsenic	0.0027J	mg/L	0.0050	02/24/23 14:36	
SM 2540C-2015	Total Dissolved Solids	84.0	mg/L	25.0	02/13/23 16:53	
92651580009	**YAT-YGWC-38**					
	Performed by	Client			03/03/23 10:28	

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SUMMARY OF DETECTION

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651580009	**YAT-YGWC-38**					
	Collected By	Jessica Ware			03/03/23 10:28	
	Collected Date	02/08/23			03/03/23 10:28	
	Collected Time	09:30			03/03/23 10:28	
	pH	5.16	Std. Units		03/03/23 10:28	
EPA 6010D	Calcium	55.3	mg/L	1.0	02/22/23 18:29	
EPA 6010D	Potassium	3.8	mg/L	0.20	02/22/23 18:29	
EPA 6010D	Sodium	18.1	mg/L	1.0	02/22/23 18:29	
EPA 6010D	Magnesium	27.5	mg/L	0.050	02/22/23 18:29	
EPA 6020B	Barium	0.016	mg/L	0.0050	02/24/23 14:42	
EPA 6020B	Beryllium	0.0020	mg/L	0.00050	02/24/23 14:42	
EPA 6020B	Boron	4.1	mg/L	0.040	02/24/23 14:42	
EPA 6020B	Cadmium	0.00068	mg/L	0.00050	02/24/23 14:42	
EPA 6020B	Lithium	0.0058J	mg/L	0.030	02/24/23 14:42	
EPA 6020B	Selenium	0.056	mg/L	0.0050	02/24/23 14:42	
SM 2540C-2015	Total Dissolved Solids	579	mg/L	25.0	02/13/23 16:54	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	8.2	mg/L	5.0	02/16/23 20:39	
SM 2320B-2011	Alkalinity, Total as CaCO3	8.2	mg/L	5.0	02/16/23 20:39	
EPA 300.0 Rev 2.1 1993	Chloride	3.9	mg/L	1.0	02/11/23 19:59	
EPA 300.0 Rev 2.1 1993	Sulfate	251	mg/L	5.0	02/12/23 05:43	
92651580010	**YAT-AMA-R6-FD-2**					
EPA 6010D	Calcium	56.5	mg/L	1.0	02/22/23 18:34	
EPA 6010D	Potassium	3.9	mg/L	0.20	02/22/23 18:34	
EPA 6010D	Sodium	18.4	mg/L	1.0	02/22/23 18:34	
EPA 6010D	Magnesium	27.9	mg/L	0.050	02/22/23 18:34	
EPA 6020B	Barium	0.015	mg/L	0.0050	02/24/23 14:48	
EPA 6020B	Beryllium	0.0019	mg/L	0.00050	02/24/23 14:48	
EPA 6020B	Boron	4.0	mg/L	0.040	02/24/23 14:48	
EPA 6020B	Cadmium	0.00071	mg/L	0.00050	02/24/23 14:48	
EPA 6020B	Lithium	0.0056J	mg/L	0.030	02/24/23 14:48	
EPA 6020B	Selenium	0.055	mg/L	0.0050	02/24/23 14:48	
SM 2540C-2015	Total Dissolved Solids	485	mg/L	25.0	02/13/23 16:54	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	8.6	mg/L	5.0	02/16/23 20:55	
SM 2320B-2011	Alkalinity, Total as CaCO3	8.6	mg/L	5.0	02/16/23 20:55	
EPA 300.0 Rev 2.1 1993	Chloride	3.8	mg/L	1.0	02/11/23 20:13	
EPA 300.0 Rev 2.1 1993	Sulfate	252	mg/L	5.0	02/12/23 05:58	
92651580011	**YAT-YGWC-41**					
	Performed by	Client			03/03/23 10:34	
	Collected By	Jessica Ware			03/03/23 10:34	
	Collected Date	02/08/23			03/03/23 10:34	
	Collected Time	16:30			03/03/23 10:34	
	pH	4.69	Std. Units		03/03/23 10:34	
EPA 6010D	Calcium	14.4	mg/L	1.0	02/22/23 18:49	
EPA 6010D	Potassium	2.3	mg/L	0.20	02/22/23 18:49	
EPA 6010D	Sodium	14.3	mg/L	1.0	02/22/23 18:49	
EPA 6010D	Magnesium	17.4	mg/L	0.050	02/22/23 18:49	

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SUMMARY OF DETECTION

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651580011	**YAT-YGWC-41**					
EPA 6020B	Arsenic	0.0027J	mg/L	0.0050	02/24/23 14:54	
EPA 6020B	Barium	0.022	mg/L	0.0050	02/24/23 14:54	
EPA 6020B	Beryllium	0.0013	mg/L	0.00050	02/24/23 14:54	
EPA 6020B	Boron	3.3	mg/L	0.040	02/24/23 14:54	
EPA 6020B	Lithium	0.0021J	mg/L	0.030	02/24/23 14:54	
EPA 6020B	Selenium	0.027	mg/L	0.0050	02/24/23 14:54	
SM 2540C-2015	Total Dissolved Solids	257	mg/L	25.0	02/13/23 16:55	
EPA 300.0 Rev 2.1 1993	Chloride	4.0	mg/L	1.0	02/13/23 23:51	
EPA 300.0 Rev 2.1 1993	Sulfate	119	mg/L	2.0	02/14/23 13:10	
92651580012	**YAT-YGWC-43**					
	Performed by	Client			03/03/23 10:34	
	Collected By	Jessica Ware			03/03/23 10:34	
	Collected Date	02/08/23			03/03/23 10:34	
	Collected Time	18:00			03/03/23 10:34	
	pH	5.40	Std. Units		03/03/23 10:34	
EPA 6010D	Calcium	11.0	mg/L	1.0	02/22/23 18:54	
EPA 6010D	Potassium	6.5	mg/L	0.20	02/22/23 18:54	
EPA 6010D	Sodium	18.3	mg/L	1.0	02/22/23 18:54	
EPA 6010D	Magnesium	25.8	mg/L	0.050	02/22/23 18:54	
EPA 6020B	Arsenic	0.0033J	mg/L	0.0050	02/24/23 15:00	
EPA 6020B	Barium	0.031	mg/L	0.0050	02/24/23 15:00	
EPA 6020B	Beryllium	0.00036J	mg/L	0.00050	02/24/23 15:00	
EPA 6020B	Boron	2.5	mg/L	0.040	02/24/23 15:00	
EPA 6020B	Cobalt	0.00049J	mg/L	0.0050	02/24/23 15:00	
EPA 6020B	Lithium	0.015J	mg/L	0.030	02/24/23 15:00	
EPA 6020B	Molybdenum	0.0016J	mg/L	0.010	02/24/23 15:00	
SM 2540C-2015	Total Dissolved Solids	333	mg/L	25.0	02/13/23 16:55	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	33.9	mg/L	5.0	02/17/23 12:07	
SM 2320B-2011	Alkalinity, Total as CaCO3	33.9	mg/L	5.0	02/17/23 12:07	
EPA 300.0 Rev 2.1 1993	Chloride	2.4	mg/L	1.0	02/14/23 00:06	
EPA 300.0 Rev 2.1 1993	Fluoride	0.11	mg/L	0.10	02/14/23 00:06	
EPA 300.0 Rev 2.1 1993	Sulfate	164	mg/L	3.0	02/14/23 13:25	
92651580013	**YAT-YAMW-2**					
	Performed by	Client			03/03/23 10:35	
	Collected By	Jessica Ware			03/03/23 10:35	
	Collected Date	02/08/23			03/03/23 10:35	
	Collected Time	13:55			03/03/23 10:35	
	pH	5.95	Std. Units		03/03/23 10:35	
EPA 6010D	Calcium	1.2	mg/L	1.0	02/22/23 18:58	
EPA 6010D	Potassium	0.69	mg/L	0.20	02/22/23 18:58	
EPA 6010D	Sodium	6.7	mg/L	1.0	02/22/23 18:58	
EPA 6010D	Magnesium	2.0	mg/L	0.050	02/22/23 18:58	
EPA 6020B	Barium	0.0064	mg/L	0.0050	02/24/23 15:06	
EPA 6020B	Beryllium	0.000055J	mg/L	0.00050	02/24/23 15:06	
EPA 6020B	Boron	0.031J	mg/L	0.040	02/24/23 15:06	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SUMMARY OF DETECTION

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651580013	**YAT-YAMW-2**					
SM 2540C-2015	Total Dissolved Solids	190	mg/L	25.0	02/14/23 11:56	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	15.3	mg/L	5.0	02/17/23 12:13	
SM 2320B-2011	Alkalinity, Total as CaCO3	15.3	mg/L	5.0	02/17/23 12:13	
EPA 300.0 Rev 2.1 1993	Chloride	2.5	mg/L	1.0	02/14/23 00:21	
EPA 300.0 Rev 2.1 1993	Fluoride	0.061J	mg/L	0.10	02/14/23 00:21	
EPA 300.0 Rev 2.1 1993	Sulfate	6.7	mg/L	1.0	02/14/23 00:21	
92651580014	**YAT-YAMW-4**					
	Performed by	Client			03/03/23 10:36	
	Collected By	Jessica Ware			03/03/23 10:36	
	Collected Date	02/08/23			03/03/23 10:36	
	Collected Time	14:52			03/03/23 10:36	
	pH	6.19	Std. Units		03/03/23 10:36	
EPA 6010D	Calcium	12.0	mg/L	1.0	02/22/23 19:03	
EPA 6010D	Potassium	6.1	mg/L	0.20	02/22/23 19:03	
EPA 6010D	Sodium	25.3	mg/L	1.0	02/22/23 19:03	
EPA 6010D	Magnesium	39.2	mg/L	0.050	02/22/23 19:03	
EPA 6020B	Arsenic	0.0037J	mg/L	0.0050	02/24/23 15:12	
EPA 6020B	Barium	0.0030J	mg/L	0.0050	02/24/23 15:12	
EPA 6020B	Boron	3.0	mg/L	0.040	02/24/23 15:12	
EPA 6020B	Cobalt	0.00085J	mg/L	0.0050	02/24/23 15:12	
EPA 6020B	Lithium	0.033	mg/L	0.030	02/24/23 15:12	
EPA 6020B	Molybdenum	0.0076J	mg/L	0.010	02/24/23 15:12	
EPA 6020B	Selenium	0.017	mg/L	0.0050	02/24/23 15:12	
SM 2540C-2015	Total Dissolved Solids	402	mg/L	25.0	02/14/23 11:59	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	58.1	mg/L	5.0	02/17/23 12:19	
SM 2320B-2011	Alkalinity, Total as CaCO3	58.1	mg/L	5.0	02/17/23 12:19	
EPA 300.0 Rev 2.1 1993	Chloride	1.5	mg/L	1.0	02/14/23 00:36	
EPA 300.0 Rev 2.1 1993	Fluoride	0.079J	mg/L	0.10	02/14/23 00:36	
EPA 300.0 Rev 2.1 1993	Sulfate	192	mg/L	4.0	02/14/23 13:40	
92651580015	**YAT-YAMW-5**					
	Performed by	Client			03/03/23 10:36	
	Collected By	Jessica Ware			03/03/23 10:36	
	Collected Date	02/08/23			03/03/23 10:36	
	Collected Time	10:58			03/03/23 10:36	
	pH	5.67	Std. Units		03/03/23 10:36	
EPA 6010D	Calcium	52.3	mg/L	1.0	02/22/23 19:08	
EPA 6010D	Potassium	7.8	mg/L	0.20	02/22/23 19:08	
EPA 6010D	Sodium	41.7	mg/L	1.0	02/22/23 19:08	
EPA 6010D	Magnesium	49.0	mg/L	0.050	02/22/23 19:08	
EPA 6020B	Arsenic	0.0038J	mg/L	0.0050	02/24/23 15:18	
EPA 6020B	Barium	0.039	mg/L	0.0050	02/24/23 15:18	
EPA 6020B	Beryllium	0.00013J	mg/L	0.00050	02/24/23 15:18	
EPA 6020B	Boron	6.5	mg/L	0.040	02/24/23 15:18	
EPA 6020B	Cadmium	0.00046J	mg/L	0.00050	02/24/23 15:18	
EPA 6020B	Lithium	0.014J	mg/L	0.030	02/24/23 15:18	

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SUMMARY OF DETECTION

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651580015	**YAT-YAMW-5**					
EPA 6020B	Selenium	0.052	mg/L	0.0050	02/24/23 15:18	
SM 2540C-2015	Total Dissolved Solids	660	mg/L	25.0	02/14/23 11:59	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	13.1	mg/L	5.0	02/17/23 12:27	
SM 2320B-2011	Alkalinity, Total as CaCO3	13.1	mg/L	5.0	02/17/23 12:27	
EPA 300.0 Rev 2.1 1993	Chloride	3.8	mg/L	1.0	02/14/23 00:51	
EPA 300.0 Rev 2.1 1993	Fluoride	0.050J	mg/L	0.10	02/14/23 00:51	M1
EPA 300.0 Rev 2.1 1993	Sulfate	368	mg/L	8.0	02/14/23 14:39	
92651580016	**YAT-YAMW-1**					
	Performed by	Client			03/03/23 10:37	
	Collected By	Jessica Ware			03/03/23 10:37	
	Collected Date	02/09/23			03/03/23 10:37	
	Collected Time	15:56			03/03/23 10:37	
	pH	5.73	Std. Units		03/03/23 10:37	
EPA 6010D	Calcium	31.7	mg/L	1.0	02/23/23 17:31	
EPA 6010D	Potassium	9.7	mg/L	0.20	02/23/23 17:31	
EPA 6010D	Sodium	22.2	mg/L	1.0	02/23/23 17:31	
EPA 6010D	Magnesium	25.4	mg/L	0.050	02/23/23 17:31	
EPA 6020B	Arsenic	0.0034J	mg/L	0.0050	02/24/23 15:40	
EPA 6020B	Barium	0.078	mg/L	0.0050	02/24/23 15:40	
EPA 6020B	Beryllium	0.00012J	mg/L	0.00050	02/24/23 15:40	
EPA 6020B	Boron	0.63	mg/L	0.040	02/24/23 15:40	
EPA 6020B	Cobalt	0.0045J	mg/L	0.0050	02/24/23 15:40	
EPA 6020B	Lithium	0.019J	mg/L	0.030	02/24/23 15:40	
EPA 6020B	Selenium	0.0051	mg/L	0.0050	02/24/23 15:40	
SM 2540C-2015	Total Dissolved Solids	347	mg/L	25.0	02/15/23 18:41	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	29.2	mg/L	5.0	02/17/23 19:36	
SM 2320B-2011	Alkalinity, Total as CaCO3	29.2	mg/L	5.0	02/17/23 19:36	
EPA 300.0 Rev 2.1 1993	Chloride	5.4	mg/L	1.0	02/14/23 22:06	
EPA 300.0 Rev 2.1 1993	Sulfate	209	mg/L	4.0	02/15/23 09:31	
92651580017	**YAT-AMA-R6-FD-1**					
EPA 6010D	Calcium	29.0	mg/L	1.0	02/23/23 17:36	
EPA 6010D	Potassium	9.0	mg/L	0.20	02/23/23 17:36	
EPA 6010D	Sodium	20.4	mg/L	1.0	02/23/23 17:36	
EPA 6010D	Magnesium	23.4	mg/L	0.050	02/23/23 17:36	
EPA 6020B	Arsenic	0.0036J	mg/L	0.0050	02/24/23 15:46	
EPA 6020B	Barium	0.081	mg/L	0.0050	02/24/23 15:46	
EPA 6020B	Beryllium	0.00013J	mg/L	0.00050	02/24/23 15:46	
EPA 6020B	Boron	0.66	mg/L	0.040	02/24/23 15:46	
EPA 6020B	Cobalt	0.0046J	mg/L	0.0050	02/24/23 15:46	
EPA 6020B	Lithium	0.020J	mg/L	0.030	02/24/23 15:46	
EPA 6020B	Selenium	0.0050	mg/L	0.0050	02/24/23 15:46	
SM 2540C-2015	Total Dissolved Solids	344	mg/L	25.0	02/16/23 19:18	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	28.6	mg/L	5.0	02/17/23 19:42	
SM 2320B-2011	Alkalinity, Total as CaCO3	28.6	mg/L	5.0	02/17/23 19:42	
EPA 300.0 Rev 2.1 1993	Chloride	5.4	mg/L	1.0	02/14/23 23:06	

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SUMMARY OF DETECTION

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651580017	**YAT-AMA-R6-FD-1**					
EPA 300.0 Rev 2.1 1993	Sulfate	208	mg/L	4.0	02/15/23 09:45	
92651580018	**YAT-YGWC-36A**					
	Performed by	Client			03/03/23 10:38	
	Collected By	Jessica Ware			03/03/23 10:38	
	Collected Date	02/09/23			03/03/23 10:38	
	Collected Time	13:10			03/03/23 10:38	
	pH	5.67	Std. Units		03/03/23 10:38	
EPA 6010D	Calcium	9.2	mg/L	1.0	02/23/23 17:41	
EPA 6010D	Potassium	1.1	mg/L	0.20	02/23/23 17:41	
EPA 6010D	Sodium	14.7	mg/L	1.0	02/23/23 17:41	
EPA 6010D	Magnesium	4.0	mg/L	0.050	02/23/23 17:41	
EPA 6020B	Arsenic	0.0047J	mg/L	0.0050	02/24/23 15:52	
EPA 6020B	Barium	0.097	mg/L	0.0050	02/24/23 15:52	
EPA 6020B	Beryllium	0.00066	mg/L	0.00050	02/24/23 15:52	
EPA 6020B	Boron	0.028J	mg/L	0.040	02/24/23 15:52	
EPA 6020B	Lithium	0.0010J	mg/L	0.030	02/24/23 15:52	
EPA 6020B	Selenium	0.0027J	mg/L	0.0050	02/24/23 15:52	
SM 2540C-2015	Total Dissolved Solids	116	mg/L	25.0	02/16/23 19:19	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	10.6	mg/L	5.0	02/17/23 19:48	
SM 2320B-2011	Alkalinity, Total as CaCO3	10.6	mg/L	5.0	02/17/23 19:48	
EPA 300.0 Rev 2.1 1993	Chloride	5.9	mg/L	1.0	02/14/23 23:21	
EPA 300.0 Rev 2.1 1993	Sulfate	50.8	mg/L	1.0	02/14/23 23:21	
92651580020	**YAT-AMA-R6-FB-1**					
EPA 6020B	Arsenic	0.0045J	mg/L	0.0050	02/24/23 15:58	
92651580021	**YAT-YGWC-24SB**					
	Performed by	Client			03/03/23 10:39	
	Collected By	Jessica Ware			03/03/23 10:39	
	Collected Date	02/10/23			03/03/23 10:39	
	Collected Time	09:45			03/03/23 10:39	
	pH	5.67	Std. Units		03/03/23 10:39	
EPA 6010D	Potassium	1.0	mg/L	0.20	02/23/23 17:51	BC
EPA 6010D	Sodium	9.3	mg/L	1.0	02/23/23 17:51	
EPA 6010D	Calcium	2.4	mg/L	1.0	02/23/23 17:51	
EPA 6010D	Magnesium	1.8	mg/L	0.050	02/23/23 17:51	
EPA 6020B	Arsenic	0.0035J	mg/L	0.0050	02/24/23 16:04	
EPA 6020B	Barium	0.031	mg/L	0.0050	02/24/23 16:04	
EPA 6020B	Beryllium	0.000054J	mg/L	0.00050	02/24/23 16:04	
SM 2540C-2015	Total Dissolved Solids	66.0	mg/L	25.0	02/16/23 16:30	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	12.6	mg/L	5.0	02/17/23 19:58	
SM 2320B-2011	Alkalinity, Total as CaCO3	12.6	mg/L	5.0	02/17/23 19:58	
EPA 300.0 Rev 2.1 1993	Chloride	9.1	mg/L	1.0	02/15/23 00:51	
EPA 300.0 Rev 2.1 1993	Fluoride	0.051J	mg/L	0.10	02/15/23 00:51	
EPA 300.0 Rev 2.1 1993	Sulfate	0.50J	mg/L	1.0	02/15/23 00:51	

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SUMMARY OF DETECTION

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651580022	**YAT-PZ-51**					
	Performed by	Client			03/03/23 10:40	
	Collected By	Jessica Ware			03/03/23 10:40	
	Collected Date	02/09/23			03/03/23 10:40	
	Collected Time	16:01			03/03/23 10:40	
	pH	5.14	Std. Units		03/03/23 10:40	
EPA 6010D	Potassium	4.7	mg/L	0.20	02/23/23 17:55	
EPA 6010D	Sodium	18.8	mg/L	1.0	02/23/23 17:55	
EPA 6010D	Calcium	54.3	mg/L	1.0	02/23/23 17:55	
EPA 6010D	Magnesium	45.6	mg/L	0.050	02/23/23 17:55	
EPA 6020B	Barium	0.015	mg/L	0.0050	02/24/23 20:03	
EPA 6020B	Beryllium	0.0024	mg/L	0.00050	02/25/23 14:47	
EPA 6020B	Boron	6.9	mg/L	0.040	02/25/23 14:47	
EPA 6020B	Cadmium	0.0018	mg/L	0.00050	02/24/23 20:03	
EPA 6020B	Cobalt	0.0071	mg/L	0.0050	02/24/23 20:03	
EPA 6020B	Lithium	0.0045J	mg/L	0.030	02/24/23 20:03	
EPA 6020B	Selenium	0.028	mg/L	0.0050	02/24/23 20:03	
SM 2540C-2015	Total Dissolved Solids	582	mg/L	25.0	02/15/23 18:42	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	10.9	mg/L	5.0	02/17/23 20:13	
SM 2320B-2011	Alkalinity, Total as CaCO3	10.9	mg/L	5.0	02/17/23 20:13	
EPA 300.0 Rev 2.1 1993	Chloride	4.7	mg/L	1.0	02/15/23 01:05	
EPA 300.0 Rev 2.1 1993	Fluoride	0.13	mg/L	0.10	02/15/23 01:05	
EPA 300.0 Rev 2.1 1993	Sulfate	370	mg/L	7.0	02/15/23 10:00	
92651580023	**YAT-AMA-R6-EB-2**					
EPA 6020B	Boron	0.027J	mg/L	0.040	02/25/23 14:53	
92651580024	**YAT-YGWC-49**					
	Performed by	Client			03/03/23 10:40	
	Collected By	Jessica Ware			03/03/23 10:40	
	Collected Date	02/09/23			03/03/23 10:40	
	Collected Time	15:00			03/03/23 10:40	
	pH	5.61	Std. Units		03/03/23 10:40	
EPA 6010D	Calcium	11.8	mg/L	1.0	02/23/23 18:15	
EPA 6010D	Potassium	1.8	mg/L	0.20	02/23/23 18:15	
EPA 6010D	Sodium	17.2	mg/L	1.0	02/23/23 18:15	
EPA 6010D	Magnesium	8.0	mg/L	0.050	02/23/23 18:15	
EPA 6020B	Barium	0.063	mg/L	0.0050	02/27/23 20:32	
EPA 6020B	Beryllium	0.00012J	mg/L	0.00050	02/27/23 20:32	
EPA 6020B	Boron	0.014J	mg/L	0.040	02/27/23 20:32	
EPA 6020B	Chromium	0.0020J	mg/L	0.0050	02/27/23 20:32	
EPA 6020B	Lithium	0.0033J	mg/L	0.030	02/27/23 20:32	
EPA 6020B	Selenium	0.0054	mg/L	0.0050	02/27/23 20:32	
SM 2540C-2015	Total Dissolved Solids	145	mg/L	25.0	02/15/23 18:43	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	17.2	mg/L	5.0	02/17/23 20:23	
SM 2320B-2011	Alkalinity, Total as CaCO3	17.2	mg/L	5.0	02/17/23 20:23	
EPA 300.0 Rev 2.1 1993	Chloride	4.4	mg/L	1.0	02/15/23 02:20	
EPA 300.0 Rev 2.1 1993	Sulfate	71.1	mg/L	1.0	02/15/23 02:20	

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Peachtree Corners, GA 30092
(770)734-4200

SUMMARY OF DETECTION

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651580025	**YAT-YAMW-3**					
	Performed by	Client			03/19/23 15:53	
	Collected By	JW			03/19/23 15:53	
	Collected Date	02/09/23			03/19/23 15:53	
	Collected Time	11:17			03/19/23 15:53	
	pH	5.89	Std. Units		03/19/23 15:53	
EPA 6010D	Calcium	33.0	mg/L	1.0	02/23/23 18:20	
EPA 6010D	Potassium	16.6	mg/L	0.20	02/23/23 18:20	
EPA 6010D	Sodium	50.0	mg/L	1.0	02/23/23 18:20	
EPA 6010D	Magnesium	59.2	mg/L	0.050	02/23/23 18:20	
EPA 6020B	Barium	0.045	mg/L	0.0050	02/27/23 20:38	
EPA 6020B	Beryllium	0.000062J	mg/L	0.00050	02/27/23 20:38	
EPA 6020B	Boron	8.1	mg/L	0.040	02/27/23 20:38	
EPA 6020B	Cobalt	0.066	mg/L	0.0050	02/27/23 20:38	
EPA 6020B	Lithium	0.048	mg/L	0.030	02/27/23 20:38	
EPA 6020B	Molybdenum	0.0067J	mg/L	0.010	02/27/23 20:38	
SM 2540C-2015	Total Dissolved Solids	727	mg/L	25.0	02/15/23 18:43	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	53.7	mg/L	5.0	02/17/23 20:28	
SM 2320B-2011	Alkalinity, Total as CaCO3	53.7	mg/L	5.0	02/17/23 20:28	
EPA 300.0 Rev 2.1 1993	Chloride	9.6	mg/L	1.0	02/15/23 02:35	
EPA 300.0 Rev 2.1 1993	Fluoride	0.079J	mg/L	0.10	02/15/23 02:35	
EPA 300.0 Rev 2.1 1993	Sulfate	419	mg/L	8.0	02/15/23 10:15	
92651576012	**YAT-PZ-35**					
	Performed by	Client			03/19/23 16:05	
	Collected By	VL			03/19/23 16:05	
	Collected Date	02/09/23			03/19/23 16:05	
	Collected Time	14:48			03/19/23 16:05	
	pH	5.50	Std. Units		03/19/23 16:05	
EPA 6010D	Potassium	1.7	mg/L	0.20	02/22/23 21:27	
EPA 6010D	Sodium	15.9	mg/L	1.0	02/22/23 21:27	
EPA 6010D	Calcium	14.5	mg/L	1.0	02/22/23 21:27	
EPA 6010D	Magnesium	8.0	mg/L	0.050	02/22/23 21:27	
EPA 6020B	Arsenic	0.0028J	mg/L	0.0050	02/23/23 18:04	
EPA 6020B	Barium	0.13	mg/L	0.0050	02/23/23 18:04	
EPA 6020B	Beryllium	0.00080	mg/L	0.00050	02/23/23 18:04	
EPA 6020B	Boron	0.076	mg/L	0.040	02/23/23 18:04	
EPA 6020B	Cadmium	0.00025J	mg/L	0.00050	02/23/23 18:04	
EPA 6020B	Chromium	0.0016J	mg/L	0.0050	02/23/23 18:04	
EPA 6020B	Lithium	0.0026J	mg/L	0.030	02/23/23 18:04	
EPA 6020B	Selenium	0.0041J	mg/L	0.0050	02/23/23 18:04	
SM 2540C-2015	Total Dissolved Solids	196	mg/L	25.0	02/15/23 12:03	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	9.3	mg/L	5.0	02/17/23 17:29	
SM 2320B-2011	Alkalinity, Total as CaCO3	9.3	mg/L	5.0	02/17/23 17:29	
EPA 300.0 Rev 2.1 1993	Chloride	5.4	mg/L	1.0	02/14/23 18:52	
EPA 300.0 Rev 2.1 1993	Sulfate	84.6	mg/L	1.0	02/14/23 18:52	

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(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-YGWC-23S **Lab ID: 92651580001** Collected: 02/08/23 15:35 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 10:09		
Collected By	**Jessica Ware**				1		03/03/23 10:09		
Collected Date	**02/08/23**				1		03/03/23 10:09		
Collected Time	**15:35**				1		03/03/23 10:09		
pH	**5.33**	Std. Units			1		03/03/23 10:09		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**10.9**	mg/L	1.0	0.12	1	02/21/23 17:00	02/22/23 17:51	7440-70-2	
Potassium	**1.1**	mg/L	0.20	0.15	1	02/21/23 17:00	02/22/23 17:51	7440-09-7	
Sodium	**14.6**	mg/L	1.0	0.58	1	02/21/23 17:00	02/22/23 17:51	7440-23-5	
Magnesium	**8.9**	mg/L	0.050	0.012	1	02/21/23 17:00	02/22/23 17:51	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/23 17:01	02/24/23 12:57	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/23/23 17:01	02/24/23 12:57	7440-38-2	
Barium	**0.053**	mg/L	0.0050	0.00067	1	02/23/23 17:01	02/24/23 12:57	7440-39-3	
Beryllium	**0.00022J**	mg/L	0.00050	0.000054	1	02/23/23 17:01	02/24/23 12:57	7440-41-7	
Boron	**1.6**	mg/L	0.040	0.0086	1	02/23/23 17:01	02/24/23 12:57	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 12:57	7440-43-9	
Chromium	**0.0014J**	mg/L	0.0050	0.0011	1	02/23/23 17:01	02/24/23 12:57	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/23 17:01	02/24/23 12:57	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 12:57	7439-92-1	
Lithium	**0.0028J**	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 12:57	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/23 17:01	02/24/23 12:57	7439-98-7	
Selenium	**0.035**	mg/L	0.0050	0.0014	1	02/23/23 17:01	02/24/23 12:57	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 12:57	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/02/23 09:00	03/02/23 14:10	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**158**	mg/L	25.0	25.0	1		02/13/23 16:49		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**10.0**	mg/L	5.0	5.0	1		02/16/23 19:39		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/16/23 19:39		
Alkalinity, Total as CaCO3	**10.0**	mg/L	5.0	5.0	1		02/16/23 19:39		

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-YGWC-23S **Lab ID: 92651580001** Collected: 02/08/23 15:35 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.0**	mg/L	1.0	0.60	1		02/11/23 17:05	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/11/23 17:05	16984-48-8	
Sulfate	**78.0**	mg/L	1.0	0.50	1		02/11/23 17:05	14808-79-8	M1

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-YGWC-42 **Lab ID: 92651580002** Collected: 02/08/23 17:36 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 10:10		
Collected By	**Jessica Ware**				1		03/03/23 10:10		
Collected Date	**02/08/23**				1		03/03/23 10:10		
Collected Time	**17:36**				1		03/03/23 10:10		
pH	**5.48**	Std. Units			1		03/03/23 10:10		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**74.6**	mg/L	1.0	0.12	1	02/21/23 17:00	02/22/23 17:56	7440-70-2	
Potassium	**10.9**	mg/L	0.20	0.15	1	02/21/23 17:00	02/22/23 17:56	7440-09-7	
Sodium	**32.9**	mg/L	1.0	0.58	1	02/21/23 17:00	02/22/23 17:56	7440-23-5	
Magnesium	**77.7**	mg/L	0.050	0.012	1	02/21/23 17:00	02/22/23 17:56	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/23 17:01	02/24/23 13:03	7440-36-0	
Arsenic	**0.0025J**	mg/L	0.0050	0.0022	1	02/23/23 17:01	02/24/23 13:03	7440-38-2	
Barium	**0.023**	mg/L	0.0050	0.00067	1	02/23/23 17:01	02/24/23 13:03	7440-39-3	
Beryllium	**0.000062J**	mg/L	0.00050	0.000054	1	02/23/23 17:01	02/24/23 13:03	7440-41-7	
Boron	**14.5**	mg/L	0.40	0.086	10	02/23/23 17:01	02/25/23 14:00	7440-42-8	
Cadmium	**0.00014J**	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 13:03	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/23 17:01	02/24/23 13:03	7440-47-3	
Cobalt	**0.0018J**	mg/L	0.0050	0.00039	1	02/23/23 17:01	02/24/23 13:03	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 13:03	7439-92-1	
Lithium	**0.046**	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 13:03	7439-93-2	
Molybdenum	**0.00081J**	mg/L	0.010	0.00074	1	02/23/23 17:01	02/24/23 13:03	7439-98-7	
Selenium	**0.041**	mg/L	0.0050	0.0014	1	02/23/23 17:01	02/24/23 13:03	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 13:03	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/02/23 09:00	03/02/23 14:13	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**853**	mg/L	25.0	25.0	1		02/13/23 16:49		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**34.3**	mg/L	5.0	5.0	1		02/16/23 19:44		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/16/23 19:44		
Alkalinity, Total as CaCO3	**34.3**	mg/L	5.0	5.0	1		02/16/23 19:44		

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-YGWC-42 **Lab ID: 92651580002** Collected: 02/08/23 17:36 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.4**	mg/L	1.0	0.60	1		02/11/23 17:48	16887-00-6	
Fluoride	**0.080J**	mg/L	0.10	0.050	1		02/11/23 17:48	16984-48-8	
Sulfate	**494**	mg/L	10.0	5.0	10		02/12/23 04:30	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-PZ-37 **Lab ID: 92651580003** Collected: 02/08/23 09:46 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 10:11		
Collected By	**Jessica Ware**				1		03/03/23 10:11		
Collected Date	**02/08/23**				1		03/03/23 10:11		
Collected Time	**09:46**				1		03/03/23 10:11		
pH	**5.15**	Std. Units			1		03/03/23 10:11		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**95.9**	mg/L	1.0	0.12	1	02/21/23 17:00	02/22/23 18:00	7440-70-2	
Potassium	**4.6**	mg/L	0.20	0.15	1	02/21/23 17:00	02/22/23 18:00	7440-09-7	
Sodium	**27.6**	mg/L	1.0	0.58	1	02/21/23 17:00	02/22/23 18:00	7440-23-5	
Magnesium	**50.7**	mg/L	0.050	0.012	1	02/21/23 17:00	02/22/23 18:00	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/23 17:01	02/24/23 13:09	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/23/23 17:01	02/24/23 13:09	7440-38-2	
Barium	**0.022**	mg/L	0.0050	0.00067	1	02/23/23 17:01	02/24/23 13:09	7440-39-3	
Beryllium	**0.0011**	mg/L	0.00050	0.000054	1	02/23/23 17:01	02/24/23 13:09	7440-41-7	
Boron	**8.2**	mg/L	0.040	0.0086	1	02/23/23 17:01	02/24/23 13:09	7440-42-8	
Cadmium	**0.00076**	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 13:09	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/23 17:01	02/24/23 13:09	7440-47-3	
Cobalt	**0.0022J**	mg/L	0.0050	0.00039	1	02/23/23 17:01	02/24/23 13:09	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 13:09	7439-92-1	
Lithium	**0.013J**	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 13:09	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/23 17:01	02/24/23 13:09	7439-98-7	
Selenium	**0.16**	mg/L	0.0050	0.0014	1	02/23/23 17:01	02/24/23 13:09	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 13:09	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/02/23 09:00	03/02/23 14:16	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**822**	mg/L	25.0	25.0	1		02/13/23 16:50		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**13.2**	mg/L	5.0	5.0	1		02/16/23 19:51		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/16/23 19:51		
Alkalinity, Total as CaCO3	**13.2**	mg/L	5.0	5.0	1		02/16/23 19:51		

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-PZ-37 **Lab ID: 92651580003** Collected: 02/08/23 09:46 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.8**	mg/L	1.0	0.60	1		02/11/23 18:03	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/11/23 18:03	16984-48-8	
Sulfate	**449**	mg/L	10.0	5.0	10		02/12/23 04:44	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-AMA-R6-FD-3 **Lab ID: 92651580004** Collected: 02/08/23 00:00 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report 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	**97.3**	mg/L	1.0	0.12	1	02/21/23 17:00	02/22/23 18:05	7440-70-2	
Potassium	**4.5**	mg/L	0.20	0.15	1	02/21/23 17:00	02/22/23 18:05	7440-09-7	
Sodium	**27.9**	mg/L	1.0	0.58	1	02/21/23 17:00	02/22/23 18:05	7440-23-5	
Magnesium	**51.1**	mg/L	0.050	0.012	1	02/21/23 17:00	02/22/23 18:05	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/23 17:01	02/24/23 13:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/23/23 17:01	02/24/23 13:15	7440-38-2	
Barium	**0.021**	mg/L	0.0050	0.00067	1	02/23/23 17:01	02/24/23 13:15	7440-39-3	
Beryllium	**0.0011**	mg/L	0.00050	0.000054	1	02/23/23 17:01	02/24/23 13:15	7440-41-7	
Boron	**7.7**	mg/L	0.040	0.0086	1	02/23/23 17:01	02/24/23 13:15	7440-42-8	
Cadmium	**0.00069**	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 13:15	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/23 17:01	02/24/23 13:15	7440-47-3	
Cobalt	**0.0020J**	mg/L	0.0050	0.00039	1	02/23/23 17:01	02/24/23 13:15	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 13:15	7439-92-1	
Lithium	**0.012J**	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 13:15	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/23 17:01	02/24/23 13:15	7439-98-7	
Selenium	**0.15**	mg/L	0.0050	0.0014	1	02/23/23 17:01	02/24/23 13:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 13:15	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/02/23 09:00	03/02/23 14:27	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**884**	mg/L	25.0	25.0	1		02/13/23 16:51		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**12.8**	mg/L	5.0	5.0	1		02/16/23 19:57		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/16/23 19:57		
Alkalinity, Total as CaCO3	**12.8**	mg/L	5.0	5.0	1		02/16/23 19:57		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.8**	mg/L	1.0	0.60	1		02/11/23 18:17	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/11/23 18:17	16984-48-8	
Sulfate	**453**	mg/L	10.0	5.0	10		02/12/23 04:58	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-PZ-37D **Lab ID: 92651580005** Collected: 02/08/23 13:48 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 10:12		
Collected By	**Jessica Ware**				1		03/03/23 10:12		
Collected Date	**02/08/23**				1		03/03/23 10:12		
Collected Time	**13:48**				1		03/03/23 10:12		
pH	**7.95**	Std. Units			1		03/03/23 10:12		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**55.2**	mg/L	1.0	0.12	1	02/21/23 17:00	02/22/23 18:10	7440-70-2	
Potassium	**12.4**	mg/L	0.20	0.15	1	02/21/23 17:00	02/22/23 18:10	7440-09-7	
Sodium	**72.9**	mg/L	1.0	0.58	1	02/21/23 17:00	02/22/23 18:10	7440-23-5	
Magnesium	**10.1**	mg/L	0.050	0.012	1	02/21/23 17:00	02/22/23 18:10	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0015J**	mg/L	0.0030	0.00078	1	02/23/23 17:01	02/24/23 13:39	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/23/23 17:01	02/24/23 13:39	7440-38-2	
Barium	**0.018**	mg/L	0.0050	0.00067	1	02/23/23 17:01	02/24/23 13:39	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/23 17:01	02/24/23 13:39	7440-41-7	
Boron	**0.70**	mg/L	0.040	0.0086	1	02/23/23 17:01	02/24/23 13:39	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 13:39	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/23 17:01	02/24/23 13:39	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/23 17:01	02/24/23 13:39	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 13:39	7439-92-1	
Lithium	**0.0088J**	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 13:39	7439-93-2	
Molybdenum	**0.0024J**	mg/L	0.010	0.00074	1	02/23/23 17:01	02/24/23 13:39	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/23 17:01	02/24/23 13:39	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 13:39	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/02/23 09:00	03/02/23 14:29	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**477**	mg/L	25.0	25.0	1		02/13/23 16:52		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**131**	mg/L	5.0	5.0	1		02/16/23 20:03		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/16/23 20:03		
Alkalinity, Total as CaCO3	**131**	mg/L	5.0	5.0	1		02/16/23 20:03		

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Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-PZ-37D **Lab ID: 92651580005** Collected: 02/08/23 13:48 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**33.5**	mg/L	1.0	0.60	1		02/11/23 19:01	16887-00-6	
Fluoride	**0.20**	mg/L	0.10	0.050	1		02/11/23 19:01	16984-48-8	
Sulfate	**177**	mg/L	4.0	2.0	4		02/12/23 05:14	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-PZ-52D **Lab ID: 92651580006** Collected: 02/08/23 11:16 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 10:27		
Collected By	**Jessica Ware**				1		03/03/23 10:27		
Collected Date	**02/08/23**				1		03/03/23 10:27		
Collected Time	**11:16**				1		03/03/23 10:27		
pH	**6.12**	Std. Units			1		03/03/23 10:27		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**22.9**	mg/L	1.0	0.12	1	02/21/23 17:00	02/22/23 18:15	7440-70-2	
Potassium	**7.8**	mg/L	0.20	0.15	1	02/21/23 17:00	02/22/23 18:15	7440-09-7	
Sodium	**45.0**	mg/L	1.0	0.58	1	02/21/23 17:00	02/22/23 18:15	7440-23-5	
Magnesium	**44.4**	mg/L	0.050	0.012	1	02/21/23 17:00	02/22/23 18:15	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/23 17:01	02/24/23 14:24	7440-36-0	
Arsenic	**0.0032J**	mg/L	0.0050	0.0022	1	02/23/23 17:01	02/24/23 14:24	7440-38-2	
Barium	**0.012**	mg/L	0.0050	0.00067	1	02/23/23 17:01	02/24/23 14:24	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/23 17:01	02/24/23 14:24	7440-41-7	
Boron	**1.2**	mg/L	0.040	0.0086	1	02/23/23 17:01	02/24/23 14:24	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 14:24	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/23 17:01	02/24/23 14:24	7440-47-3	
Cobalt	**0.0026J**	mg/L	0.0050	0.00039	1	02/23/23 17:01	02/24/23 14:24	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 14:24	7439-92-1	
Lithium	**0.025J**	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 14:24	7439-93-2	
Molybdenum	**0.0050J**	mg/L	0.010	0.00074	1	02/23/23 17:01	02/24/23 14:24	7439-98-7	
Selenium	**0.0057**	mg/L	0.0050	0.0014	1	02/23/23 17:01	02/24/23 14:24	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 14:24	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/02/23 09:00	03/02/23 14:37	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**542**	mg/L	25.0	25.0	1		02/13/23 16:52		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**36.2**	mg/L	5.0	5.0	1		02/16/23 20:13		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/16/23 20:13		
Alkalinity, Total as CaCO3	**36.2**	mg/L	5.0	5.0	1		02/16/23 20:13		

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-PZ-52D **Lab ID: 92651580006** Collected: 02/08/23 11:16 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.0**	mg/L	1.0	0.60	1		02/11/23 19:15	16887-00-6	
Fluoride	**0.070J**	mg/L	0.10	0.050	1		02/11/23 19:15	16984-48-8	
Sulfate	**279**	mg/L	6.0	3.0	6		02/12/23 05:28	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-AMA-R6-EB-1 **Lab ID: 92651580007** Collected: 02/08/23 18:40 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report 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	02/21/23 17:00	02/22/23 18:20	7440-70-2	
Potassium	ND	mg/L	0.20	0.15	1	02/21/23 17:00	02/22/23 18:20	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	02/21/23 17:00	02/22/23 18:20	7440-23-5	
Magnesium	ND	mg/L	0.050	0.012	1	02/21/23 17:00	02/22/23 18:20	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/23 17:01	02/24/23 14:30	7440-36-0	
Arsenic	**0.0034J**	mg/L	0.0050	0.0022	1	02/23/23 17:01	02/24/23 14:30	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	02/23/23 17:01	02/24/23 14:30	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/23 17:01	02/24/23 14:30	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/23 17:01	02/24/23 14:30	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 14:30	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/23 17:01	02/24/23 14:30	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/23 17:01	02/24/23 14:30	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 14:30	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 14:30	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/23 17:01	02/24/23 14:30	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/23 17:01	02/24/23 14:30	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 14:30	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/02/23 09:00	03/02/23 14:40	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/13/23 16:53		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/16/23 20:20		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/16/23 20:20		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/16/23 20:20		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/11/23 19:30	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/11/23 19:30	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/11/23 19:30	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-AMA-R6-FB-2 **Lab ID: 92651580008** Collected: 02/08/23 11:00 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report 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	02/21/23 17:00	02/22/23 18:25	7440-70-2	
Potassium	ND	mg/L	0.20	0.15	1	02/21/23 17:00	02/22/23 18:25	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	02/21/23 17:00	02/22/23 18:25	7440-23-5	
Magnesium	ND	mg/L	0.050	0.012	1	02/21/23 17:00	02/22/23 18:25	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/23 17:01	02/24/23 14:36	7440-36-0	
Arsenic	**0.0027J**	mg/L	0.0050	0.0022	1	02/23/23 17:01	02/24/23 14:36	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	02/23/23 17:01	02/24/23 14:36	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/23 17:01	02/24/23 14:36	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/23 17:01	02/24/23 14:36	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 14:36	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/23 17:01	02/24/23 14:36	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/23 17:01	02/24/23 14:36	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 14:36	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 14:36	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/23 17:01	02/24/23 14:36	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/23 17:01	02/24/23 14:36	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 14:36	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/02/23 09:00	03/02/23 14:42	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**84.0**	mg/L	25.0	25.0	1		02/13/23 16:53		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/16/23 20:34		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/16/23 20:34		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/16/23 20:34		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/11/23 19:44	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/11/23 19:44	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/11/23 19:44	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-YGWC-38 **Lab ID: 92651580009** Collected: 02/08/23 09:30 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 10:28		
Collected By	**Jessica Ware**				1		03/03/23 10:28		
Collected Date	**02/08/23**				1		03/03/23 10:28		
Collected Time	**09:30**				1		03/03/23 10:28		
pH	**5.16**	Std. Units			1		03/03/23 10:28		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**55.3**	mg/L	1.0	0.12	1	02/21/23 17:00	02/22/23 18:29	7440-70-2	
Potassium	**3.8**	mg/L	0.20	0.15	1	02/21/23 17:00	02/22/23 18:29	7440-09-7	
Sodium	**18.1**	mg/L	1.0	0.58	1	02/21/23 17:00	02/22/23 18:29	7440-23-5	
Magnesium	**27.5**	mg/L	0.050	0.012	1	02/21/23 17:00	02/22/23 18:29	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/23 17:01	02/24/23 14:42	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/23/23 17:01	02/24/23 14:42	7440-38-2	
Barium	**0.016**	mg/L	0.0050	0.00067	1	02/23/23 17:01	02/24/23 14:42	7440-39-3	
Beryllium	**0.0020**	mg/L	0.00050	0.000054	1	02/23/23 17:01	02/24/23 14:42	7440-41-7	
Boron	**4.1**	mg/L	0.040	0.0086	1	02/23/23 17:01	02/24/23 14:42	7440-42-8	
Cadmium	**0.00068**	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 14:42	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/23 17:01	02/24/23 14:42	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/23 17:01	02/24/23 14:42	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 14:42	7439-92-1	
Lithium	**0.0058J**	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 14:42	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/23 17:01	02/24/23 14:42	7439-98-7	
Selenium	**0.056**	mg/L	0.0050	0.0014	1	02/23/23 17:01	02/24/23 14:42	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 14:42	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/02/23 09:00	03/02/23 14:45	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**579**	mg/L	25.0	25.0	1		02/13/23 16:54		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**8.2**	mg/L	5.0	5.0	1		02/16/23 20:39		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/16/23 20:39		
Alkalinity, Total as CaCO3	**8.2**	mg/L	5.0	5.0	1		02/16/23 20:39		

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-YGWC-38 **Lab ID: 92651580009** Collected: 02/08/23 09:30 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.9**	mg/L	1.0	0.60	1		02/11/23 19:59	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/11/23 19:59	16984-48-8	
Sulfate	**251**	mg/L	5.0	2.5	5		02/12/23 05:43	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-AMA-R6-FD-2 **Lab ID: 92651580010** Collected: 02/08/23 00:00 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report 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	**56.5**	mg/L	1.0	0.12	1	02/21/23 17:00	02/22/23 18:34	7440-70-2	
Potassium	**3.9**	mg/L	0.20	0.15	1	02/21/23 17:00	02/22/23 18:34	7440-09-7	
Sodium	**18.4**	mg/L	1.0	0.58	1	02/21/23 17:00	02/22/23 18:34	7440-23-5	
Magnesium	**27.9**	mg/L	0.050	0.012	1	02/21/23 17:00	02/22/23 18:34	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/23 17:01	02/24/23 14:48	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/23/23 17:01	02/24/23 14:48	7440-38-2	
Barium	**0.015**	mg/L	0.0050	0.00067	1	02/23/23 17:01	02/24/23 14:48	7440-39-3	
Beryllium	**0.0019**	mg/L	0.00050	0.000054	1	02/23/23 17:01	02/24/23 14:48	7440-41-7	
Boron	**4.0**	mg/L	0.040	0.0086	1	02/23/23 17:01	02/24/23 14:48	7440-42-8	
Cadmium	**0.00071**	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 14:48	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/23 17:01	02/24/23 14:48	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/23 17:01	02/24/23 14:48	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 14:48	7439-92-1	
Lithium	**0.0056J**	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 14:48	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/23 17:01	02/24/23 14:48	7439-98-7	
Selenium	**0.055**	mg/L	0.0050	0.0014	1	02/23/23 17:01	02/24/23 14:48	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 14:48	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/02/23 09:00	03/02/23 14:48	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**485**	mg/L	25.0	25.0	1		02/13/23 16:54		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**8.6**	mg/L	5.0	5.0	1		02/16/23 20:55		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/16/23 20:55		
Alkalinity, Total as CaCO3	**8.6**	mg/L	5.0	5.0	1		02/16/23 20:55		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.8**	mg/L	1.0	0.60	1		02/11/23 20:13	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/11/23 20:13	16984-48-8	
Sulfate	**252**	mg/L	5.0	2.5	5		02/12/23 05:58	14808-79-8	

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-YGWC-41 **Lab ID: 92651580011** Collected: 02/08/23 16:30 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 10:34		
Collected By	**Jessica Ware**				1		03/03/23 10:34		
Collected Date	**02/08/23**				1		03/03/23 10:34		
Collected Time	**16:30**				1		03/03/23 10:34		
pH	**4.69**	Std. Units			1		03/03/23 10:34		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**14.4**	mg/L	1.0	0.12	1	02/21/23 17:00	02/22/23 18:49	7440-70-2	
Potassium	**2.3**	mg/L	0.20	0.15	1	02/21/23 17:00	02/22/23 18:49	7440-09-7	
Sodium	**14.3**	mg/L	1.0	0.58	1	02/21/23 17:00	02/22/23 18:49	7440-23-5	
Magnesium	**17.4**	mg/L	0.050	0.012	1	02/21/23 17:00	02/22/23 18:49	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/23 17:01	02/24/23 14:54	7440-36-0	
Arsenic	**0.0027J**	mg/L	0.0050	0.0022	1	02/23/23 17:01	02/24/23 14:54	7440-38-2	
Barium	**0.022**	mg/L	0.0050	0.00067	1	02/23/23 17:01	02/24/23 14:54	7440-39-3	
Beryllium	**0.0013**	mg/L	0.00050	0.000054	1	02/23/23 17:01	02/24/23 14:54	7440-41-7	
Boron	**3.3**	mg/L	0.040	0.0086	1	02/23/23 17:01	02/24/23 14:54	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 14:54	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/23 17:01	02/24/23 14:54	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/23 17:01	02/24/23 14:54	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 14:54	7439-92-1	
Lithium	**0.0021J**	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 14:54	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/23 17:01	02/24/23 14:54	7439-98-7	
Selenium	**0.027**	mg/L	0.0050	0.0014	1	02/23/23 17:01	02/24/23 14:54	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 14:54	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/02/23 09:00	03/02/23 14:50	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**257**	mg/L	25.0	25.0	1		02/13/23 16:55		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 12:02		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 12:02		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/17/23 12:02		

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-YGWC-41 **Lab ID: 92651580011** Collected: 02/08/23 16:30 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.0**	mg/L	1.0	0.60	1		02/13/23 23:51	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/13/23 23:51	16984-48-8	
Sulfate	**119**	mg/L	2.0	1.0	2		02/14/23 13:10	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-YGWC-43 **Lab ID: 92651580012** Collected: 02/08/23 18:00 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 10:34		
Collected By	**Jessica Ware**				1		03/03/23 10:34		
Collected Date	**02/08/23**				1		03/03/23 10:34		
Collected Time	**18:00**				1		03/03/23 10:34		
pH	**5.40**	Std. Units			1		03/03/23 10:34		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**11.0**	mg/L	1.0	0.12	1	02/21/23 17:00	02/22/23 18:54	7440-70-2	
Potassium	**6.5**	mg/L	0.20	0.15	1	02/21/23 17:00	02/22/23 18:54	7440-09-7	
Sodium	**18.3**	mg/L	1.0	0.58	1	02/21/23 17:00	02/22/23 18:54	7440-23-5	
Magnesium	**25.8**	mg/L	0.050	0.012	1	02/21/23 17:00	02/22/23 18:54	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/23 17:01	02/24/23 15:00	7440-36-0	
Arsenic	**0.0033J**	mg/L	0.0050	0.0022	1	02/23/23 17:01	02/24/23 15:00	7440-38-2	
Barium	**0.031**	mg/L	0.0050	0.00067	1	02/23/23 17:01	02/24/23 15:00	7440-39-3	
Beryllium	**0.00036J**	mg/L	0.00050	0.000054	1	02/23/23 17:01	02/24/23 15:00	7440-41-7	
Boron	**2.5**	mg/L	0.040	0.0086	1	02/23/23 17:01	02/24/23 15:00	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 15:00	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/23 17:01	02/24/23 15:00	7440-47-3	
Cobalt	**0.00049J**	mg/L	0.0050	0.00039	1	02/23/23 17:01	02/24/23 15:00	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 15:00	7439-92-1	
Lithium	**0.015J**	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 15:00	7439-93-2	
Molybdenum	**0.0016J**	mg/L	0.010	0.00074	1	02/23/23 17:01	02/24/23 15:00	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/23 17:01	02/24/23 15:00	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 15:00	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/02/23 09:00	03/02/23 14:53	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**333**	mg/L	25.0	25.0	1		02/13/23 16:55		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**33.9**	mg/L	5.0	5.0	1		02/17/23 12:07		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 12:07		
Alkalinity, Total as CaCO3	**33.9**	mg/L	5.0	5.0	1		02/17/23 12:07		

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(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-YGWC-43 **Lab ID: 92651580012** Collected: 02/08/23 18:00 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.4**	mg/L	1.0	0.60	1		02/14/23 00:06	16887-00-6	
Fluoride	**0.11**	mg/L	0.10	0.050	1		02/14/23 00:06	16984-48-8	
Sulfate	**164**	mg/L	3.0	1.5	3		02/14/23 13:25	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-YAMW-2 **Lab ID: 92651580013** Collected: 02/08/23 13:55 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 10:35		
Collected By	**Jessica Ware**				1		03/03/23 10:35		
Collected Date	**02/08/23**				1		03/03/23 10:35		
Collected Time	**13:55**				1		03/03/23 10:35		
pH	**5.95**	Std. Units			1		03/03/23 10:35		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**1.2**	mg/L	1.0	0.12	1	02/21/23 17:00	02/22/23 18:58	7440-70-2	
Potassium	**0.69**	mg/L	0.20	0.15	1	02/21/23 17:00	02/22/23 18:58	7440-09-7	
Sodium	**6.7**	mg/L	1.0	0.58	1	02/21/23 17:00	02/22/23 18:58	7440-23-5	
Magnesium	**2.0**	mg/L	0.050	0.012	1	02/21/23 17:00	02/22/23 18:58	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/23 17:01	02/24/23 15:06	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/23/23 17:01	02/24/23 15:06	7440-38-2	
Barium	**0.0064**	mg/L	0.0050	0.00067	1	02/23/23 17:01	02/24/23 15:06	7440-39-3	
Beryllium	**0.000055J**	mg/L	0.00050	0.000054	1	02/23/23 17:01	02/24/23 15:06	7440-41-7	
Boron	**0.031J**	mg/L	0.040	0.0086	1	02/23/23 17:01	02/24/23 15:06	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 15:06	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/23 17:01	02/24/23 15:06	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/23 17:01	02/24/23 15:06	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 15:06	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 15:06	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/23 17:01	02/24/23 15:06	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/23 17:01	02/24/23 15:06	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 15:06	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/02/23 09:00	03/02/23 14:56	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**190**	mg/L	25.0	25.0	1		02/14/23 11:56		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**15.3**	mg/L	5.0	5.0	1		02/17/23 12:13		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 12:13		
Alkalinity, Total as CaCO3	**15.3**	mg/L	5.0	5.0	1		02/17/23 12:13		

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-YAMW-2 **Lab ID: 92651580013** Collected: 02/08/23 13:55 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.5**	mg/L	1.0	0.60	1		02/14/23 00:21	16887-00-6	
Fluoride	**0.061J**	mg/L	0.10	0.050	1		02/14/23 00:21	16984-48-8	
Sulfate	**6.7**	mg/L	1.0	0.50	1		02/14/23 00:21	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-YAMW-4 **Lab ID: 92651580014** Collected: 02/08/23 14:52 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 10:36		
Collected By	**Jessica Ware**				1		03/03/23 10:36		
Collected Date	**02/08/23**				1		03/03/23 10:36		
Collected Time	**14:52**				1		03/03/23 10:36		
pH	**6.19**	Std. Units			1		03/03/23 10:36		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**12.0**	mg/L	1.0	0.12	1	02/21/23 17:00	02/22/23 19:03	7440-70-2	
Potassium	**6.1**	mg/L	0.20	0.15	1	02/21/23 17:00	02/22/23 19:03	7440-09-7	
Sodium	**25.3**	mg/L	1.0	0.58	1	02/21/23 17:00	02/22/23 19:03	7440-23-5	
Magnesium	**39.2**	mg/L	0.050	0.012	1	02/21/23 17:00	02/22/23 19:03	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/23 17:01	02/24/23 15:12	7440-36-0	
Arsenic	**0.0037J**	mg/L	0.0050	0.0022	1	02/23/23 17:01	02/24/23 15:12	7440-38-2	
Barium	**0.0030J**	mg/L	0.0050	0.00067	1	02/23/23 17:01	02/24/23 15:12	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/23 17:01	02/24/23 15:12	7440-41-7	
Boron	**3.0**	mg/L	0.040	0.0086	1	02/23/23 17:01	02/24/23 15:12	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 15:12	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/23 17:01	02/24/23 15:12	7440-47-3	
Cobalt	**0.00085J**	mg/L	0.0050	0.00039	1	02/23/23 17:01	02/24/23 15:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 15:12	7439-92-1	
Lithium	**0.033**	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 15:12	7439-93-2	
Molybdenum	**0.0076J**	mg/L	0.010	0.00074	1	02/23/23 17:01	02/24/23 15:12	7439-98-7	
Selenium	**0.017**	mg/L	0.0050	0.0014	1	02/23/23 17:01	02/24/23 15:12	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 15:12	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/02/23 09:00	03/02/23 14:58	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**402**	mg/L	25.0	25.0	1		02/14/23 11:59		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**58.1**	mg/L	5.0	5.0	1		02/17/23 12:19		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 12:19		
Alkalinity, Total as CaCO3	**58.1**	mg/L	5.0	5.0	1		02/17/23 12:19		

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-YAMW-4 **Lab ID: 92651580014** Collected: 02/08/23 14:52 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.5**	mg/L	1.0	0.60	1		02/14/23 00:36	16887-00-6	
Fluoride	**0.079J**	mg/L	0.10	0.050	1		02/14/23 00:36	16984-48-8	
Sulfate	**192**	mg/L	4.0	2.0	4		02/14/23 13:40	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-YAMW-5 **Lab ID: 92651580015** Collected: 02/08/23 10:58 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 10:36		
Collected By	**Jessica Ware**				1		03/03/23 10:36		
Collected Date	**02/08/23**				1		03/03/23 10:36		
Collected Time	**10:58**				1		03/03/23 10:36		
pH	**5.67**	Std. Units			1		03/03/23 10:36		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**52.3**	mg/L	1.0	0.12	1	02/21/23 17:00	02/22/23 19:08	7440-70-2	
Potassium	**7.8**	mg/L	0.20	0.15	1	02/21/23 17:00	02/22/23 19:08	7440-09-7	
Sodium	**41.7**	mg/L	1.0	0.58	1	02/21/23 17:00	02/22/23 19:08	7440-23-5	
Magnesium	**49.0**	mg/L	0.050	0.012	1	02/21/23 17:00	02/22/23 19:08	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/23 17:01	02/24/23 15:18	7440-36-0	
Arsenic	**0.0038J**	mg/L	0.0050	0.0022	1	02/23/23 17:01	02/24/23 15:18	7440-38-2	
Barium	**0.039**	mg/L	0.0050	0.00067	1	02/23/23 17:01	02/24/23 15:18	7440-39-3	
Beryllium	**0.00013J**	mg/L	0.00050	0.000054	1	02/23/23 17:01	02/24/23 15:18	7440-41-7	
Boron	**6.5**	mg/L	0.040	0.0086	1	02/23/23 17:01	02/24/23 15:18	7440-42-8	
Cadmium	**0.00046J**	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 15:18	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/23 17:01	02/24/23 15:18	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/23 17:01	02/24/23 15:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 15:18	7439-92-1	
Lithium	**0.014J**	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 15:18	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/23 17:01	02/24/23 15:18	7439-98-7	
Selenium	**0.052**	mg/L	0.0050	0.0014	1	02/23/23 17:01	02/24/23 15:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 15:18	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/02/23 09:00	03/02/23 15:01	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**660**	mg/L	25.0	25.0	1		02/14/23 11:59		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**13.1**	mg/L	5.0	5.0	1		02/17/23 12:27		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 12:27		
Alkalinity, Total as CaCO3	**13.1**	mg/L	5.0	5.0	1		02/17/23 12:27		

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-YAMW-5 **Lab ID: 92651580015** Collected: 02/08/23 10:58 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.8**	mg/L	1.0	0.60	1		02/14/23 00:51	16887-00-6	
Fluoride	**0.050J**	mg/L	0.10	0.050	1		02/14/23 00:51	16984-48-8	M1
Sulfate	**368**	mg/L	8.0	4.0	8		02/14/23 14:39	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-YAMW-1 **Lab ID: 92651580016** Collected: 02/09/23 15:56 Received: 02/10/23 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 10:37		
Collected By	**Jessica Ware**				1		03/03/23 10:37		
Collected Date	**02/09/23**				1		03/03/23 10:37		
Collected Time	**15:56**				1		03/03/23 10:37		
pH	**5.73**	Std. Units			1		03/03/23 10:37		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**31.7**	mg/L	1.0	0.12	1	02/23/23 10:34	02/23/23 17:31	7440-70-2	
Potassium	**9.7**	mg/L	0.20	0.15	1	02/23/23 10:34	02/23/23 17:31	7440-09-7	
Sodium	**22.2**	mg/L	1.0	0.58	1	02/23/23 10:34	02/23/23 17:31	7440-23-5	
Magnesium	**25.4**	mg/L	0.050	0.012	1	02/23/23 10:34	02/23/23 17:31	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/23 17:01	02/24/23 15:40	7440-36-0	
Arsenic	**0.0034J**	mg/L	0.0050	0.0022	1	02/23/23 17:01	02/24/23 15:40	7440-38-2	
Barium	**0.078**	mg/L	0.0050	0.00067	1	02/23/23 17:01	02/24/23 15:40	7440-39-3	
Beryllium	**0.00012J**	mg/L	0.00050	0.000054	1	02/23/23 17:01	02/24/23 15:40	7440-41-7	
Boron	**0.63**	mg/L	0.040	0.0086	1	02/23/23 17:01	02/24/23 15:40	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 15:40	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/23 17:01	02/24/23 15:40	7440-47-3	
Cobalt	**0.0045J**	mg/L	0.0050	0.00039	1	02/23/23 17:01	02/24/23 15:40	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 15:40	7439-92-1	
Lithium	**0.019J**	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 15:40	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/23 17:01	02/24/23 15:40	7439-98-7	
Selenium	**0.0051**	mg/L	0.0050	0.0014	1	02/23/23 17:01	02/24/23 15:40	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 15:40	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/02/23 09:00	03/02/23 15:09	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**347**	mg/L	25.0	25.0	1		02/15/23 18:41		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**29.2**	mg/L	5.0	5.0	1		02/17/23 19:36		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 19:36		
Alkalinity, Total as CaCO3	**29.2**	mg/L	5.0	5.0	1		02/17/23 19:36		

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-YAMW-1 **Lab ID: 92651580016** Collected: 02/09/23 15:56 Received: 02/10/23 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.4**	mg/L	1.0	0.60	1		02/14/23 22:06	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/14/23 22:06	16984-48-8	
Sulfate	**209**	mg/L	4.0	2.0	4		02/15/23 09:31	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-AMA-R6-FD-1 **Lab ID: 92651580017** Collected: 02/09/23 00:00 Received: 02/10/23 14:00 Matrix: Water

Parameters	Results	Units	Report 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	**29.0**	mg/L	1.0	0.12	1	02/23/23 10:34	02/23/23 17:36	7440-70-2	
Potassium	**9.0**	mg/L	0.20	0.15	1	02/23/23 10:34	02/23/23 17:36	7440-09-7	
Sodium	**20.4**	mg/L	1.0	0.58	1	02/23/23 10:34	02/23/23 17:36	7440-23-5	
Magnesium	**23.4**	mg/L	0.050	0.012	1	02/23/23 10:34	02/23/23 17:36	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/23 17:01	02/24/23 15:46	7440-36-0	
Arsenic	**0.0036J**	mg/L	0.0050	0.0022	1	02/23/23 17:01	02/24/23 15:46	7440-38-2	
Barium	**0.081**	mg/L	0.0050	0.00067	1	02/23/23 17:01	02/24/23 15:46	7440-39-3	
Beryllium	**0.00013J**	mg/L	0.00050	0.000054	1	02/23/23 17:01	02/24/23 15:46	7440-41-7	
Boron	**0.66**	mg/L	0.040	0.0086	1	02/23/23 17:01	02/24/23 15:46	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 15:46	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/23 17:01	02/24/23 15:46	7440-47-3	
Cobalt	**0.0046J**	mg/L	0.0050	0.00039	1	02/23/23 17:01	02/24/23 15:46	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 15:46	7439-92-1	
Lithium	**0.020J**	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 15:46	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/23 17:01	02/24/23 15:46	7439-98-7	
Selenium	**0.0050**	mg/L	0.0050	0.0014	1	02/23/23 17:01	02/24/23 15:46	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 15:46	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/02/23 09:00	03/02/23 15:11	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**344**	mg/L	25.0	25.0	1		02/16/23 19:18		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**28.6**	mg/L	5.0	5.0	1		02/17/23 19:42		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 19:42		
Alkalinity, Total as CaCO3	**28.6**	mg/L	5.0	5.0	1		02/17/23 19:42		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.4**	mg/L	1.0	0.60	1		02/14/23 23:06	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/14/23 23:06	16984-48-8	
Sulfate	**208**	mg/L	4.0	2.0	4		02/15/23 09:45	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-YGWC-36A **Lab ID: 92651580018** Collected: 02/09/23 13:10 Received: 02/10/23 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 10:38		
Collected By	**Jessica Ware**				1		03/03/23 10:38		
Collected Date	**02/09/23**				1		03/03/23 10:38		
Collected Time	**13:10**				1		03/03/23 10:38		
pH	**5.67**	Std. Units			1		03/03/23 10:38		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**9.2**	mg/L	1.0	0.12	1	02/23/23 10:34	02/23/23 17:41	7440-70-2	
Potassium	**1.1**	mg/L	0.20	0.15	1	02/23/23 10:34	02/23/23 17:41	7440-09-7	
Sodium	**14.7**	mg/L	1.0	0.58	1	02/23/23 10:34	02/23/23 17:41	7440-23-5	
Magnesium	**4.0**	mg/L	0.050	0.012	1	02/23/23 10:34	02/23/23 17:41	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/23 17:01	02/24/23 15:52	7440-36-0	
Arsenic	**0.0047J**	mg/L	0.0050	0.0022	1	02/23/23 17:01	02/24/23 15:52	7440-38-2	
Barium	**0.097**	mg/L	0.0050	0.00067	1	02/23/23 17:01	02/24/23 15:52	7440-39-3	
Beryllium	**0.00066**	mg/L	0.00050	0.000054	1	02/23/23 17:01	02/24/23 15:52	7440-41-7	
Boron	**0.028J**	mg/L	0.040	0.0086	1	02/23/23 17:01	02/24/23 15:52	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 15:52	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/23 17:01	02/24/23 15:52	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/23 17:01	02/24/23 15:52	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 15:52	7439-92-1	
Lithium	**0.0010J**	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 15:52	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/23 17:01	02/24/23 15:52	7439-98-7	
Selenium	**0.0027J**	mg/L	0.0050	0.0014	1	02/23/23 17:01	02/24/23 15:52	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 15:52	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/02/23 09:00	03/02/23 15:14	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**116**	mg/L	25.0	25.0	1		02/16/23 19:19		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**10.6**	mg/L	5.0	5.0	1		02/17/23 19:48		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 19:48		
Alkalinity, Total as CaCO3	**10.6**	mg/L	5.0	5.0	1		02/17/23 19:48		

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-YGWC-36A **Lab ID: 92651580018** Collected: 02/09/23 13:10 Received: 02/10/23 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.9**	mg/L	1.0	0.60	1		02/14/23 23:21	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/14/23 23:21	16984-48-8	
Sulfate	**50.8**	mg/L	1.0	0.50	1		02/14/23 23:21	14808-79-8	

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-AMA-R6-FB-1 **Lab ID: 92651580020** Collected: 02/09/23 16:55 Received: 02/10/23 14:00 Matrix: Water

Parameters	Results	Units	Report 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	0.20	0.15	1	02/23/23 10:34	02/23/23 17:46	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	02/23/23 10:34	02/23/23 17:46	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	02/23/23 10:34	02/23/23 17:46	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	02/23/23 10:34	02/23/23 17:46	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/23 17:01	02/24/23 15:58	7440-36-0	
Arsenic	**0.0045J**	mg/L	0.0050	0.0022	1	02/23/23 17:01	02/24/23 15:58	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	02/23/23 17:01	02/24/23 15:58	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/23 17:01	02/24/23 15:58	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/23 17:01	02/24/23 15:58	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 15:58	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/23 17:01	02/24/23 15:58	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/23 17:01	02/24/23 15:58	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 15:58	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 15:58	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/23 17:01	02/24/23 15:58	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/23 17:01	02/24/23 15:58	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 15:58	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/02/23 09:00	03/02/23 15:16	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/15/23 18:41		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 19:54		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 19:54		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/17/23 19:54		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/15/23 00:06	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/15/23 00:06	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/15/23 00:06	14808-79-8	

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(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-YGWC-24SB **Lab ID: 92651580021** Collected: 02/10/23 09:45 Received: 02/10/23 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 10:39		
Collected By	**Jessica Ware**				1		03/03/23 10:39		
Collected Date	**02/10/23**				1		03/03/23 10:39		
Collected Time	**09:45**				1		03/03/23 10:39		
pH	**5.67**	Std. Units			1		03/03/23 10:39		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**1.0**	mg/L	0.20	0.15	1	02/23/23 10:34	02/23/23 17:51	7440-09-7	BC
Sodium	**9.3**	mg/L	1.0	0.58	1	02/23/23 10:34	02/23/23 17:51	7440-23-5	
Calcium	**2.4**	mg/L	1.0	0.12	1	02/23/23 10:34	02/23/23 17:51	7440-70-2	
Magnesium	**1.8**	mg/L	0.050	0.012	1	02/23/23 10:34	02/23/23 17:51	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/23 17:01	02/24/23 16:04	7440-36-0	
Arsenic	**0.0035J**	mg/L	0.0050	0.0022	1	02/23/23 17:01	02/24/23 16:04	7440-38-2	
Barium	**0.031**	mg/L	0.0050	0.00067	1	02/23/23 17:01	02/24/23 16:04	7440-39-3	
Beryllium	**0.000054J**	mg/L	0.00050	0.000054	1	02/23/23 17:01	02/24/23 16:04	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/23 17:01	02/24/23 16:04	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 16:04	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/23 17:01	02/24/23 16:04	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/23 17:01	02/24/23 16:04	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 16:04	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 16:04	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/23 17:01	02/24/23 16:04	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/23 17:01	02/24/23 16:04	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 16:04	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/02/23 09:00	03/02/23 13:22	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**66.0**	mg/L	25.0	25.0	1		02/16/23 16:30		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**12.6**	mg/L	5.0	5.0	1		02/17/23 19:58		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 19:58		
Alkalinity, Total as CaCO3	**12.6**	mg/L	5.0	5.0	1		02/17/23 19:58		

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(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-YGWC-24SB **Lab ID: 92651580021** Collected: 02/10/23 09:45 Received: 02/10/23 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**9.1**	mg/L	1.0	0.60	1		02/15/23 00:51	16887-00-6	
Fluoride	**0.051J**	mg/L	0.10	0.050	1		02/15/23 00:51	16984-48-8	
Sulfate	**0.50J**	mg/L	1.0	0.50	1		02/15/23 00:51	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-PZ-51 **Lab ID: 92651580022** Collected: 02/09/23 16:01 Received: 02/10/23 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 10:40		
Collected By	**Jessica Ware**				1		03/03/23 10:40		
Collected Date	**02/09/23**				1		03/03/23 10:40		
Collected Time	**16:01**				1		03/03/23 10:40		
pH	**5.14**	Std. Units			1		03/03/23 10:40		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**4.7**	mg/L	0.20	0.15	1	02/23/23 10:34	02/23/23 17:55	7440-09-7	
Sodium	**18.8**	mg/L	1.0	0.58	1	02/23/23 10:34	02/23/23 17:55	7440-23-5	
Calcium	**54.3**	mg/L	1.0	0.12	1	02/23/23 10:34	02/23/23 17:55	7440-70-2	
Magnesium	**45.6**	mg/L	0.050	0.012	1	02/23/23 10:34	02/23/23 17:55	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/23 09:12	02/24/23 20:03	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/24/23 09:12	02/24/23 20:03	7440-38-2	
Barium	**0.015**	mg/L	0.0050	0.00067	1	02/24/23 09:12	02/24/23 20:03	7440-39-3	
Beryllium	**0.0024**	mg/L	0.00050	0.000054	1	02/24/23 09:12	02/25/23 14:47	7440-41-7	
Boron	**6.9**	mg/L	0.040	0.0086	1	02/24/23 09:12	02/25/23 14:47	7440-42-8	
Cadmium	**0.0018**	mg/L	0.00050	0.00011	1	02/24/23 09:12	02/24/23 20:03	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/23 09:12	02/24/23 20:03	7440-47-3	
Cobalt	**0.0071**	mg/L	0.0050	0.00039	1	02/24/23 09:12	02/24/23 20:03	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/23 09:12	02/24/23 20:03	7439-92-1	
Lithium	**0.0045J**	mg/L	0.030	0.00073	1	02/24/23 09:12	02/24/23 20:03	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/24/23 09:12	02/24/23 20:03	7439-98-7	
Selenium	**0.028**	mg/L	0.0050	0.0014	1	02/24/23 09:12	02/24/23 20:03	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/23 09:12	02/24/23 20:03	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/02/23 09:00	03/02/23 13:25	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**582**	mg/L	25.0	25.0	1		02/15/23 18:42		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**10.9**	mg/L	5.0	5.0	1		02/17/23 20:13		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 20:13		
Alkalinity, Total as CaCO3	**10.9**	mg/L	5.0	5.0	1		02/17/23 20:13		

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-PZ-51 **Lab ID: 92651580022** Collected: 02/09/23 16:01 Received: 02/10/23 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.7**	mg/L	1.0	0.60	1		02/15/23 01:05	16887-00-6	
Fluoride	**0.13**	mg/L	0.10	0.050	1		02/15/23 01:05	16984-48-8	
Sulfate	**370**	mg/L	7.0	3.5	7		02/15/23 10:00	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-AMA-R6-EB-2 **Lab ID: 92651580023** Collected: 02/09/23 17:25 Received: 02/10/23 14:00 Matrix: Water

Parameters	Results	Units	Report 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	0.20	0.15	1	02/23/23 10:34	02/23/23 18:00	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	02/23/23 10:34	02/23/23 18:00	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	02/23/23 10:34	02/23/23 18:00	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	02/23/23 10:34	02/23/23 18:00	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/23 09:12	02/24/23 20:09	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/24/23 09:12	02/24/23 20:09	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	02/24/23 09:12	02/24/23 20:09	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/24/23 09:12	02/25/23 14:53	7440-41-7	
Boron	**0.027J**	mg/L	0.040	0.0086	1	02/24/23 09:12	02/25/23 14:53	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/23 09:12	02/24/23 20:09	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/23 09:12	02/24/23 20:09	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/24/23 09:12	02/24/23 20:09	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/23 09:12	02/24/23 20:09	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/24/23 09:12	02/24/23 20:09	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/24/23 09:12	02/24/23 20:09	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/24/23 09:12	02/24/23 20:09	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/23 09:12	02/24/23 20:09	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/02/23 09:00	03/02/23 13:27	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/15/23 18:42		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 20:18		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 20:18		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/17/23 20:18		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/15/23 02:05	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/15/23 02:05	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/15/23 02:05	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-YGWC-49 **Lab ID: 92651580024** Collected: 02/09/23 15:00 Received: 02/10/23 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 10:40		
Collected By	**Jessica Ware**				1		03/03/23 10:40		
Collected Date	**02/09/23**				1		03/03/23 10:40		
Collected Time	**15:00**				1		03/03/23 10:40		
pH	**5.61**	Std. Units			1		03/03/23 10:40		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**11.8**	mg/L	1.0	0.12	1	02/23/23 10:34	02/23/23 18:15	7440-70-2	
Potassium	**1.8**	mg/L	0.20	0.15	1	02/23/23 10:34	02/23/23 18:15	7440-09-7	
Sodium	**17.2**	mg/L	1.0	0.58	1	02/23/23 10:34	02/23/23 18:15	7440-23-5	
Magnesium	**8.0**	mg/L	0.050	0.012	1	02/23/23 10:34	02/23/23 18:15	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/27/23 12:04	02/27/23 20:32	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/27/23 12:04	02/27/23 20:32	7440-38-2	
Barium	**0.063**	mg/L	0.0050	0.00067	1	02/27/23 12:04	02/27/23 20:32	7440-39-3	
Beryllium	**0.00012J**	mg/L	0.00050	0.000054	1	02/27/23 12:04	02/27/23 20:32	7440-41-7	
Boron	**0.014J**	mg/L	0.040	0.0086	1	02/27/23 12:04	02/27/23 20:32	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/27/23 12:04	02/27/23 20:32	7440-43-9	
Chromium	**0.0020J**	mg/L	0.0050	0.0011	1	02/27/23 12:04	02/27/23 20:32	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/27/23 12:04	02/27/23 20:32	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/27/23 12:04	02/27/23 20:32	7439-92-1	
Lithium	**0.0033J**	mg/L	0.030	0.00073	1	02/27/23 12:04	02/27/23 20:32	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/27/23 12:04	02/27/23 20:32	7439-98-7	
Selenium	**0.0054**	mg/L	0.0050	0.0014	1	02/27/23 12:04	02/27/23 20:32	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/27/23 12:04	02/27/23 20:32	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/02/23 09:00	03/02/23 13:30	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**145**	mg/L	25.0	25.0	1		02/15/23 18:43		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**17.2**	mg/L	5.0	5.0	1		02/17/23 20:23		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 20:23		
Alkalinity, Total as CaCO3	**17.2**	mg/L	5.0	5.0	1		02/17/23 20:23		

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-YGWC-49 **Lab ID: 92651580024** Collected: 02/09/23 15:00 Received: 02/10/23 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.4**	mg/L	1.0	0.60	1		02/15/23 02:20	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/15/23 02:20	16984-48-8	
Sulfate	**71.1**	mg/L	1.0	0.50	1		02/15/23 02:20	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-YAMW-3 **Lab ID: 92651580025** Collected: 02/09/23 11:17 Received: 02/10/23 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/19/23 15:53		
Collected By	**JW**				1		03/19/23 15:53		
Collected Date	**02/09/23**				1		03/19/23 15:53		
Collected Time	**11:17**				1		03/19/23 15:53		
pH	**5.89**	Std. Units			1		03/19/23 15:53		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**33.0**	mg/L	1.0	0.12	1	02/23/23 10:34	02/23/23 18:20	7440-70-2	
Potassium	**16.6**	mg/L	0.20	0.15	1	02/23/23 10:34	02/23/23 18:20	7440-09-7	
Sodium	**50.0**	mg/L	1.0	0.58	1	02/23/23 10:34	02/23/23 18:20	7440-23-5	
Magnesium	**59.2**	mg/L	0.050	0.012	1	02/23/23 10:34	02/23/23 18:20	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/27/23 12:04	02/27/23 20:38	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/27/23 12:04	02/27/23 20:38	7440-38-2	
Barium	**0.045**	mg/L	0.0050	0.00067	1	02/27/23 12:04	02/27/23 20:38	7440-39-3	
Beryllium	**0.000062J**	mg/L	0.00050	0.000054	1	02/27/23 12:04	02/27/23 20:38	7440-41-7	
Boron	**8.1**	mg/L	0.040	0.0086	1	02/27/23 12:04	02/27/23 20:38	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/27/23 12:04	02/27/23 20:38	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/27/23 12:04	02/27/23 20:38	7440-47-3	
Cobalt	**0.066**	mg/L	0.0050	0.00039	1	02/27/23 12:04	02/27/23 20:38	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/27/23 12:04	02/27/23 20:38	7439-92-1	
Lithium	**0.048**	mg/L	0.030	0.00073	1	02/27/23 12:04	02/27/23 20:38	7439-93-2	
Molybdenum	**0.0067J**	mg/L	0.010	0.00074	1	02/27/23 12:04	02/27/23 20:38	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/27/23 12:04	02/27/23 20:38	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/27/23 12:04	02/27/23 20:38	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/02/23 09:00	03/02/23 13:33	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**727**	mg/L	25.0	25.0	1		02/15/23 18:43		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**53.7**	mg/L	5.0	5.0	1		02/17/23 20:28		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 20:28		
Alkalinity, Total as CaCO3	**53.7**	mg/L	5.0	5.0	1		02/17/23 20:28		

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-YAMW-3 **Lab ID: 92651580025** Collected: 02/09/23 11:17 Received: 02/10/23 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**9.6**	mg/L	1.0	0.60	1		02/15/23 02:35	16887-00-6	
Fluoride	**0.079J**	mg/L	0.10	0.050	1		02/15/23 02:35	16984-48-8	
Sulfate	**419**	mg/L	8.0	4.0	8		02/15/23 10:15	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-PZ-35 **Lab ID: 92651576012** Collected: 02/09/23 14:48 Received: 02/10/23 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/19/23 16:05		
Collected By	**VL**				1		03/19/23 16:05		
Collected Date	**02/09/23**				1		03/19/23 16:05		
Collected Time	**14:48**				1		03/19/23 16:05		
pH	**5.50**	Std. Units			1		03/19/23 16:05		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**1.7**	mg/L	0.20	0.15	1	02/22/23 13:52	02/22/23 21:27	7440-09-7	
Sodium	**15.9**	mg/L	1.0	0.58	1	02/22/23 13:52	02/22/23 21:27	7440-23-5	
Calcium	**14.5**	mg/L	1.0	0.12	1	02/22/23 13:52	02/22/23 21:27	7440-70-2	
Magnesium	**8.0**	mg/L	0.050	0.012	1	02/22/23 13:52	02/22/23 21:27	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/22/23 17:00	02/23/23 18:04	7440-36-0	
Arsenic	**0.0028J**	mg/L	0.0050	0.0022	1	02/22/23 17:00	02/23/23 18:04	7440-38-2	
Barium	**0.13**	mg/L	0.0050	0.00067	1	02/22/23 17:00	02/23/23 18:04	7440-39-3	
Beryllium	**0.00080**	mg/L	0.00050	0.000054	1	02/22/23 17:00	02/23/23 18:04	7440-41-7	
Boron	**0.076**	mg/L	0.040	0.0086	1	02/22/23 17:00	02/23/23 18:04	7440-42-8	
Cadmium	**0.00025J**	mg/L	0.00050	0.00011	1	02/22/23 17:00	02/23/23 18:04	7440-43-9	
Chromium	**0.0016J**	mg/L	0.0050	0.0011	1	02/22/23 17:00	02/23/23 18:04	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/22/23 17:00	02/23/23 18:04	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/22/23 17:00	02/23/23 18:04	7439-92-1	
Lithium	**0.0026J**	mg/L	0.030	0.00073	1	02/22/23 17:00	02/23/23 18:04	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/22/23 17:00	02/23/23 18:04	7439-98-7	
Selenium	**0.0041J**	mg/L	0.0050	0.0014	1	02/22/23 17:00	02/23/23 18:04	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/22/23 17:00	02/23/23 18:04	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 11:12	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**196**	mg/L	25.0	25.0	1		02/15/23 12:03		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**9.3**	mg/L	5.0	5.0	1		02/17/23 17:29		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 17:29		
Alkalinity, Total as CaCO3	**9.3**	mg/L	5.0	5.0	1		02/17/23 17:29		

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Sample: YAT-PZ-35 **Lab ID: 92651576012** Collected: 02/09/23 14:48 Received: 02/10/23 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.4**	mg/L	1.0	0.60	1		02/14/23 18:52	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/14/23 18:52	16984-48-8	
Sulfate	**84.6**	mg/L	1.0	0.50	1		02/14/23 18:52	14808-79-8	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

QC Batch: 757276
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92651580001, 92651580002, 92651580003, 92651580004, 92651580005, 92651580006, 92651580007, 92651580008, 92651580009, 92651580010, 92651580011, 92651580012, 92651580013, 92651580014, 92651580015

METHOD BLANK: 3934070 Matrix: Water
Associated Lab Samples: 92651580001, 92651580002, 92651580003, 92651580004, 92651580005, 92651580006, 92651580007, 92651580008, 92651580009, 92651580010, 92651580011, 92651580012, 92651580013, 92651580014, 92651580015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/22/23 17:03	
Magnesium	mg/L	ND	0.050	0.012	02/22/23 17:03	
Potassium	mg/L	ND	0.20	0.15	02/22/23 17:03	
Sodium	mg/L	ND	1.0	0.58	02/22/23 17:03	

LABORATORY CONTROL SAMPLE: 3934071

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	103	80-120	
Magnesium	mg/L	1	1.0	101	80-120	
Potassium	mg/L	1	0.99	99	80-120	
Sodium	mg/L	1	0.98J	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3934072 3934073

Parameter	Units	92651415003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	179	1	1	187	190	757	1090	75-125	2	20	M1
Magnesium	mg/L	117	1	1	122	124	519	698	75-125	1	20	
Potassium	mg/L	2.7	1	1	3.9	3.9	115	115	75-125	0	20	
Sodium	mg/L	7.0	1	1	8.2	8.4	126	144	75-125	2	20	M1

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

QC Batch: 757456
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92651576012

METHOD BLANK: 3934803 Matrix: Water
Associated Lab Samples: 92651576012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/22/23 19:18	
Magnesium	mg/L	ND	0.050	0.012	02/22/23 19:18	
Potassium	mg/L	ND	0.20	0.15	02/22/23 19:18	
Sodium	mg/L	ND	1.0	0.58	02/22/23 19:18	

LABORATORY CONTROL SAMPLE: 3934804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.97J	97	80-120	
Magnesium	mg/L	1	0.98	98	80-120	
Potassium	mg/L	1	1.0	100	80-120	
Sodium	mg/L	1	0.94J	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3934805 3934806

Parameter	Units	92651576001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	11.9	1	1	13.1	13.1	126	119	75-125	0	20	M1
Magnesium	mg/L	10.7	1	1	12.0	11.9	125	118	75-125	1	20	
Potassium	mg/L	9.1	1	1	10.3	10.3	122	121	75-125	0	20	
Sodium	mg/L	14.9	1	1	16.2	16.1	135	123	75-125	1	20	M1

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

QC Batch: 757680
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92651580016, 92651580017, 92651580018, 92651580020, 92651580021, 92651580022, 92651580023, 92651580024, 92651580025

METHOD BLANK: 3935828 Matrix: Water
Associated Lab Samples: 92651580016, 92651580017, 92651580018, 92651580020, 92651580021, 92651580022, 92651580023, 92651580024, 92651580025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/23/23 15:59	
Magnesium	mg/L	ND	0.050	0.012	02/23/23 15:59	
Potassium	mg/L	ND	0.20	0.15	02/23/23 15:59	
Sodium	mg/L	ND	1.0	0.58	02/23/23 15:59	

LABORATORY CONTROL SAMPLE: 3935829

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.98J	98	80-120	
Magnesium	mg/L	1	1.0	100	80-120	
Potassium	mg/L	1	1.1	109	80-120	
Sodium	mg/L	1	1.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3935830 3935831

Parameter	Units	92649235041 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	113	1	1	112	111	-96	-182	75-125	1	20	M1
Magnesium	mg/L	36.0	1	1	36.3	36.0	33	6	75-125	1	20	M1
Potassium	mg/L	2.8	1	1	3.8	3.8	97	97	75-125	0	20	
Sodium	mg/L	5.8	1	1	6.8	6.7	98	91	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

QC Batch: 757520
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92651576012

METHOD BLANK: 3935190 Matrix: Water
Associated Lab Samples: 92651576012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/23/23 16:03	
Arsenic	mg/L	ND	0.0050	0.0022	02/23/23 16:03	
Barium	mg/L	ND	0.0050	0.00067	02/23/23 16:03	
Beryllium	mg/L	ND	0.00050	0.000054	02/23/23 16:03	
Boron	mg/L	ND	0.040	0.0086	02/23/23 16:03	
Cadmium	mg/L	ND	0.00050	0.00011	02/23/23 16:03	
Chromium	mg/L	ND	0.0050	0.0011	02/23/23 16:03	
Cobalt	mg/L	ND	0.0050	0.00039	02/23/23 16:03	
Lead	mg/L	ND	0.0010	0.00089	02/23/23 16:03	
Lithium	mg/L	ND	0.030	0.00073	02/23/23 16:03	
Molybdenum	mg/L	ND	0.010	0.00074	02/23/23 16:03	
Selenium	mg/L	ND	0.0050	0.0014	02/23/23 16:03	
Thallium	mg/L	ND	0.0010	0.00018	02/23/23 16:03	

LABORATORY CONTROL SAMPLE: 3935191

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	106	80-120	
Arsenic	mg/L	0.1	0.099	99	80-120	
Barium	mg/L	0.1	0.10	102	80-120	
Beryllium	mg/L	0.1	0.11	106	80-120	
Boron	mg/L	1	1.1	105	80-120	
Cadmium	mg/L	0.1	0.099	99	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.11	106	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	
Thallium	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3935192 3935193

Parameter	Units	92651576005 Result	MS 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	0.10	0.10	101	101	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3935192 3935193

Parameter	Units	92651576005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.049	0.1	0.1	0.16	0.16	111	107	75-125	3	20	
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	102	101	75-125	2	20	
Boron	mg/L	1.0	1	1	2.1	2.0	106	94	75-125	6	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	102	103	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	0	20	
Cobalt	mg/L	0.0015J	0.1	0.1	0.10	0.10	102	103	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.10	0.10	101	100	75-125	0	20	
Lithium	mg/L	ND	0.1	0.1	0.10	0.10	104	103	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	101	101	75-125	0	20	
Thallium	mg/L	ND	0.1	0.1	0.10	0.10	101	100	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

QC Batch: 757801
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92651580001, 92651580002, 92651580003, 92651580004, 92651580005, 92651580006, 92651580007, 92651580008, 92651580009, 92651580010, 92651580011, 92651580012, 92651580013, 92651580014, 92651580015, 92651580016, 92651580017, 92651580018, 92651580020, 92651580021

METHOD BLANK: 3936697 Matrix: Water
Associated Lab Samples: 92651580001, 92651580002, 92651580003, 92651580004, 92651580005, 92651580006, 92651580007, 92651580008, 92651580009, 92651580010, 92651580011, 92651580012, 92651580013, 92651580014, 92651580015, 92651580016, 92651580017, 92651580018, 92651580020, 92651580021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/24/23 12:45	
Arsenic	mg/L	ND	0.0050	0.0022	02/24/23 12:45	
Barium	mg/L	ND	0.0050	0.00067	02/24/23 12:45	
Beryllium	mg/L	ND	0.00050	0.000054	02/24/23 12:45	
Boron	mg/L	ND	0.040	0.0086	02/24/23 12:45	
Cadmium	mg/L	ND	0.00050	0.00011	02/24/23 12:45	
Chromium	mg/L	ND	0.0050	0.0011	02/24/23 12:45	
Cobalt	mg/L	ND	0.0050	0.00039	02/24/23 12:45	
Lead	mg/L	ND	0.0010	0.00089	02/24/23 12:45	
Lithium	mg/L	ND	0.030	0.00073	02/24/23 12:45	
Molybdenum	mg/L	ND	0.010	0.00074	02/24/23 12:45	
Selenium	mg/L	ND	0.0050	0.0014	02/24/23 12:45	
Thallium	mg/L	ND	0.0010	0.00018	02/24/23 12:45	

LABORATORY CONTROL SAMPLE: 3936698

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	104	80-120	
Arsenic	mg/L	0.1	0.098	98	80-120	
Barium	mg/L	0.1	0.097	97	80-120	
Beryllium	mg/L	0.1	0.099	99	80-120	
Boron	mg/L	1	0.99	99	80-120	
Cadmium	mg/L	0.1	0.097	97	80-120	
Chromium	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Lead	mg/L	0.1	0.098	98	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.095	95	80-120	
Thallium	mg/L	0.1	0.097	97	80-120	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3936699 3936700

Parameter	Units	92651580004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.10	105	102	75-125	3	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	0	20	
Barium	mg/L	0.021	0.1	0.1	0.12	0.12	104	102	75-125	2	20	
Beryllium	mg/L	0.0011	0.1	0.1	0.089	0.085	88	84	75-125	5	20	
Boron	mg/L	7.7	1	1	8.8	8.5	104	75	75-125	3	20	
Cadmium	mg/L	0.00069	0.1	0.1	0.098	0.098	98	98	75-125	0	20	
Chromium	mg/L	ND	0.1	0.1	0.095	0.093	95	92	75-125	3	20	
Cobalt	mg/L	0.0020J	0.1	0.1	0.096	0.095	94	93	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.094	0.092	94	92	75-125	3	20	
Lithium	mg/L	0.012J	0.1	0.1	0.10	0.10	91	87	75-125	3	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	101	99	75-125	2	20	
Selenium	mg/L	0.15	0.1	0.1	0.26	0.26	106	107	75-125	0	20	
Thallium	mg/L	ND	0.1	0.1	0.094	0.092	94	92	75-125	3	20	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

QC Batch: 757842
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92651580022, 92651580023

METHOD BLANK: 3936983 Matrix: Water
Associated Lab Samples: 92651580022, 92651580023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/24/23 17:22	
Arsenic	mg/L	0.0036J	0.0050	0.0022	02/24/23 17:22	
Barium	mg/L	ND	0.0050	0.00067	02/24/23 17:22	
Beryllium	mg/L	ND	0.00050	0.000054	02/25/23 14:35	
Boron	mg/L	ND	0.040	0.0086	02/25/23 14:35	
Cadmium	mg/L	ND	0.00050	0.00011	02/24/23 17:22	
Chromium	mg/L	ND	0.0050	0.0011	02/24/23 17:22	
Cobalt	mg/L	ND	0.0050	0.00039	02/24/23 17:22	
Lead	mg/L	ND	0.0010	0.00089	02/24/23 17:22	
Lithium	mg/L	ND	0.030	0.00073	02/25/23 14:35	
Molybdenum	mg/L	ND	0.010	0.00074	02/24/23 17:22	
Selenium	mg/L	ND	0.0050	0.0014	02/24/23 17:22	
Thallium	mg/L	ND	0.0010	0.00018	02/24/23 17:22	

LABORATORY CONTROL SAMPLE: 3936984

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	109	80-120	
Arsenic	mg/L	0.1	0.10	105	80-120	
Barium	mg/L	0.1	0.10	102	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Boron	mg/L	1	1.1	106	80-120	
Cadmium	mg/L	0.1	0.10	102	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.11	106	80-120	
Lithium	mg/L	0.1	0.11	106	80-120	
Molybdenum	mg/L	0.1	0.10	104	80-120	
Selenium	mg/L	0.1	0.10	100	80-120	
Thallium	mg/L	0.1	0.10	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3936985 3936986

Parameter	Units	92651768018 Result	MS 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	109	114	75-125	5	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	102	105	75-125	2	20	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3936985 3936986

Parameter	Units	92651768018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	12.8 ug/L	0.1	0.1	0.11	0.12	101	106	75-125	5	20	
Beryllium	mg/L	ND	0.1	0.1	0.082	0.085	82	85	75-125	3	20	
Boron	mg/L	ND	1	1	0.82	0.86	81	85	75-125	4	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	102	105	75-125	3	20	
Chromium	mg/L	ND	0.1	0.1	0.094	0.095	93	94	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.092	0.094	92	94	75-125	2	20	
Lead	mg/L	ND	0.1	0.1	0.10	0.10	101	104	75-125	3	20	
Lithium	mg/L	ND	0.1	0.1	0.086	0.090	86	90	75-125	5	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.11	104	110	75-125	5	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.11	104	106	75-125	2	20	
Thallium	mg/L	ND	0.1	0.1	0.10	0.11	103	105	75-125	2	20	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

QC Batch: 758264
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92651580024, 92651580025

METHOD BLANK: 3938725 Matrix: Water
Associated Lab Samples: 92651580024, 92651580025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/27/23 17:51	
Arsenic	mg/L	ND	0.0050	0.0022	02/27/23 17:51	
Barium	mg/L	ND	0.0050	0.00067	02/27/23 17:51	
Beryllium	mg/L	ND	0.00050	0.000054	02/27/23 17:51	
Boron	mg/L	ND	0.040	0.0086	02/27/23 17:51	
Cadmium	mg/L	ND	0.00050	0.00011	02/27/23 17:51	
Chromium	mg/L	ND	0.0050	0.0011	02/27/23 17:51	
Cobalt	mg/L	ND	0.0050	0.00039	02/27/23 17:51	
Lead	mg/L	ND	0.0010	0.00089	02/27/23 17:51	
Lithium	mg/L	ND	0.030	0.00073	02/27/23 17:51	
Molybdenum	mg/L	ND	0.010	0.00074	02/27/23 17:51	
Selenium	mg/L	ND	0.0050	0.0014	02/27/23 17:51	
Thallium	mg/L	ND	0.0010	0.00018	02/27/23 17:51	

LABORATORY CONTROL SAMPLE: 3938726

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.12	116	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.10	101	80-120	
Beryllium	mg/L	0.1	0.11	106	80-120	
Boron	mg/L	1	1.1	105	80-120	
Cadmium	mg/L	0.1	0.10	103	80-120	
Chromium	mg/L	0.1	0.10	104	80-120	
Cobalt	mg/L	0.1	0.10	103	80-120	
Lead	mg/L	0.1	0.10	103	80-120	
Lithium	mg/L	0.1	0.10	104	80-120	
Molybdenum	mg/L	0.1	0.10	102	80-120	
Selenium	mg/L	0.1	0.10	102	80-120	
Thallium	mg/L	0.1	0.10	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3938727 3938728

Parameter	Units	92649235016 Result	MS 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	0.12	0.12	117	120	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.11	0.11	105	107	75-125	2	20	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3938727 3938728

Parameter	Units	92649235016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.025	0.1	0.1	0.13	0.13	104	106	75-125	2	20	
Beryllium	mg/L	ND	0.1	0.1	0.099	0.11	99	105	75-125	6	20	
Boron	mg/L	0.017J	1	1	1.0	1.1	100	105	75-125	5	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.11	104	106	75-125	2	20	
Chromium	mg/L	ND	0.1	0.1	0.099	0.10	99	102	75-125	3	20	
Cobalt	mg/L	ND	0.1	0.1	0.097	0.10	97	100	75-125	3	20	
Lead	mg/L	ND	0.1	0.1	0.096	0.10	96	101	75-125	5	20	
Lithium	mg/L	ND	0.1	0.1	0.10	0.11	100	105	75-125	5	20	
Molybdenum	mg/L	0.0070J	0.1	0.1	0.11	0.11	101	104	75-125	2	20	
Selenium	mg/L	ND	0.1	0.1	0.11	0.11	105	106	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.10	0.10	100	102	75-125	3	20	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

QC Batch: 758312
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92651576012

METHOD BLANK: 3939045 Matrix: Water
Associated Lab Samples: 92651576012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/28/23 10:25	

LABORATORY CONTROL SAMPLE: 3939046

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0026	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3939047 3939048

Parameter	Units	92651576003 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	0.0023	89	89	75-125	0	20	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

QC Batch: 758956
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92651580001, 92651580002, 92651580003, 92651580004, 92651580005, 92651580006, 92651580007, 92651580008, 92651580009, 92651580010, 92651580011, 92651580012, 92651580013, 92651580014, 92651580015, 92651580016, 92651580017, 92651580018, 92651580020

METHOD BLANK: 3942309
Matrix: Water
Associated Lab Samples: 92651580001, 92651580002, 92651580003, 92651580004, 92651580005, 92651580006, 92651580007, 92651580008, 92651580009, 92651580010, 92651580011, 92651580012, 92651580013, 92651580014, 92651580015, 92651580016, 92651580017, 92651580018, 92651580020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	03/02/23 14:05	

LABORATORY CONTROL SAMPLE: 3942310

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3942311 3942312

Parameter	Units	92651580003 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	0.0021	0.0023	83	94	75-125	12	20	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

QC Batch: 758957
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92651580021, 92651580022, 92651580023, 92651580024, 92651580025

METHOD BLANK: 3942313 Matrix: Water
Associated Lab Samples: 92651580021, 92651580022, 92651580023, 92651580024, 92651580025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	03/02/23 12:20	

LABORATORY CONTROL SAMPLE: 3942314

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3942315 3942316

Parameter	Units	92649235041 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	94	94	75-125	0	20	H1

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

QC Batch: 755473 Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92651580001, 92651580002, 92651580003, 92651580004, 92651580005, 92651580006, 92651580007, 92651580008, 92651580009, 92651580010, 92651580011, 92651580012

METHOD BLANK: 3925080 Matrix: Water
Associated Lab Samples: 92651580001, 92651580002, 92651580003, 92651580004, 92651580005, 92651580006, 92651580007, 92651580008, 92651580009, 92651580010, 92651580011, 92651580012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/13/23 16:22	

LABORATORY CONTROL SAMPLE: 3925081

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	397	99	80-120	

SAMPLE DUPLICATE: 3925082

Parameter	Units	92651537006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	116	85.0	31	10	D6

SAMPLE DUPLICATE: 3925083

Parameter	Units	92651580003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	822	839	2	10	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

QC Batch: 755730 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92651580013, 92651580014, 92651580015

METHOD BLANK: 3926329 Matrix: Water
Associated Lab Samples: 92651580013, 92651580014, 92651580015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/14/23 11:56	

LABORATORY CONTROL SAMPLE: 3926330

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	396	99	80-120	

SAMPLE DUPLICATE: 3926331

Parameter	Units	92651580013 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	190	203	7	10	

SAMPLE DUPLICATE: 3926332

Parameter	Units	92651382012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	141	138	2	10	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

QC Batch: 755982
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: 92651576012

METHOD BLANK: 3927602 Matrix: Water
Associated Lab Samples: 92651576012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/15/23 11:50	

LABORATORY CONTROL SAMPLE: 3927603

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	377	94	80-120	

SAMPLE DUPLICATE: 3927604

Parameter	Units	92651771004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	31.0	29.0	7	10	

SAMPLE DUPLICATE: 3927605

Parameter	Units	92650184006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	619	623	1	10	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

QC Batch: 755997 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92651580016, 92651580020, 92651580022, 92651580023, 92651580024, 92651580025

METHOD BLANK: 3927731 Matrix: Water
Associated Lab Samples: 92651580016, 92651580020, 92651580022, 92651580023, 92651580024, 92651580025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/15/23 18:35	

LABORATORY CONTROL SAMPLE: 3927732

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	384	96	80-120	

SAMPLE DUPLICATE: 3927733

Parameter	Units	92651576013 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	246	153	47	10	

SAMPLE DUPLICATE: 3927734

Parameter	Units	92651580022 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	582	676	15	10	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

QC Batch: 756280 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92651580017, 92651580018, 92651580021

METHOD BLANK: 3929095 Matrix: Water
Associated Lab Samples: 92651580017, 92651580018, 92651580021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/16/23 15:00	

LABORATORY CONTROL SAMPLE: 3929096

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	377	94	80-120	

SAMPLE DUPLICATE: 3929098

Parameter	Units	92651771019 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	123	119	3	10	

SAMPLE DUPLICATE: 3929113

Parameter	Units	92651771011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	169	185	9	10	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

QC Batch: 756067
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92651580001, 92651580002, 92651580003, 92651580004, 92651580005, 92651580006, 92651580007, 92651580008, 92651580009, 92651580010

METHOD BLANK: 3928180 Matrix: Water
Associated Lab Samples: 92651580001, 92651580002, 92651580003, 92651580004, 92651580005, 92651580006, 92651580007, 92651580008, 92651580009, 92651580010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/16/23 17:37	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/16/23 17:37	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/16/23 17:37	

LABORATORY CONTROL SAMPLE: 3928181

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.0	100	80-120	

LABORATORY CONTROL SAMPLE: 3928182

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.2	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3928183 3928184

Parameter	Units	92651580009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	8.2	50	50	59.3	60.4	102	104	80-120	2	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3928185 3928186

Parameter	Units	92651580010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	8.6	50	50	61.0	61.3	105	105	80-120	1	25	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

QC Batch: 756119
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92651580011, 92651580012, 92651580013, 92651580014, 92651580015

METHOD BLANK: 3928501 Matrix: Water
Associated Lab Samples: 92651580011, 92651580012, 92651580013, 92651580014, 92651580015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/17/23 11:43	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/17/23 11:43	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/17/23 11:43	

LABORATORY CONTROL SAMPLE: 3928502

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.5	101	80-120	

LABORATORY CONTROL SAMPLE: 3928503

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3928504 3928505

Parameter	Units	92651771001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	219	50	50	262	271	86	104	80-120	3	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3928506 3928507

Parameter	Units	92651771002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	242	50	50	287	284	90	83	80-120	1	25	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

QC Batch: 756264
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92651576012

METHOD BLANK: 3929037 Matrix: Water
Associated Lab Samples: 92651576012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/17/23 15:34	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/17/23 15:34	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/17/23 15:34	

LABORATORY CONTROL SAMPLE: 3929038

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.9	102	80-120	

LABORATORY CONTROL SAMPLE: 3929039

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3929040 3929041

Parameter	Units	92651382018 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	57.7	50	50	111	113	107	111	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3929042 3929043

Parameter	Units	92651382019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	26.4	50	50	78.1	79.1	103	105	80-120	1	25	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

QC Batch: 756267
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92651580016, 92651580017, 92651580018, 92651580020, 92651580021, 92651580022, 92651580023, 92651580024, 92651580025

METHOD BLANK: 3929051 Matrix: Water
Associated Lab Samples: 92651580016, 92651580017, 92651580018, 92651580020, 92651580021, 92651580022, 92651580023, 92651580024, 92651580025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/17/23 18:59	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/17/23 18:59	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/17/23 18:59	

LABORATORY CONTROL SAMPLE: 3929052

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.4	101	80-120	

LABORATORY CONTROL SAMPLE: 3929053

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.9	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3929054 3929055

Parameter	Units	92651771011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	166	50	50	229	226	126	118	80-120	2	25	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3929056 3929057

Parameter	Units	92651771012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	ND	50	50	49.0	49.2	98	98	80-120	0	25	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

QC Batch: 755348
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: 92651580001, 92651580002, 92651580003, 92651580004, 92651580005, 92651580006, 92651580007, 92651580008, 92651580009, 92651580010

METHOD BLANK: 3924712 Matrix: Water
Associated Lab Samples: 92651580001, 92651580002, 92651580003, 92651580004, 92651580005, 92651580006, 92651580007, 92651580008, 92651580009, 92651580010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/11/23 13:13	
Fluoride	mg/L	ND	0.10	0.050	02/11/23 13:13	
Sulfate	mg/L	ND	1.0	0.50	02/11/23 13:13	

LABORATORY CONTROL SAMPLE: 3924713

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.6	97	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	50	48.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3924714 3924715

Parameter	Units	92651512003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	6.1	50	50	54.1	55.5	96	99	90-110	3	10	
Fluoride	mg/L	0.086J	2.5	2.5	2.5	2.5	95	98	90-110	3	10	
Sulfate	mg/L	10.2	50	50	58.6	60.1	97	100	90-110	3	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3924716 3924717

Parameter	Units	92651580001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.0	50	50	50.9	52.4	98	101	90-110	3	10	
Fluoride	mg/L	ND	2.5	2.5	2.4	2.4	93	96	90-110	4	10	
Sulfate	mg/L	78.0	50	50	120	121	83	87	90-110	1	10	M1

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

QC Batch: 755595
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: 92651580011, 92651580012, 92651580013, 92651580014, 92651580015

METHOD BLANK: 3925880 Matrix: Water
Associated Lab Samples: 92651580011, 92651580012, 92651580013, 92651580014, 92651580015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/13/23 22:52	
Fluoride	mg/L	ND	0.10	0.050	02/13/23 22:52	
Sulfate	mg/L	ND	1.0	0.50	02/13/23 22:52	

LABORATORY CONTROL SAMPLE: 3925881

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.1	102	90-110	
Fluoride	mg/L	2.5	2.7	107	90-110	
Sulfate	mg/L	50	50.9	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3925882 3925883

Parameter	Units	92651580015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.8	50	50	53.5	56.1	99	105	90-110	5	10	
Fluoride	mg/L	0.050J	2.5	2.5	3.0	3.0	117	117	90-110	0	10	M1
Sulfate	mg/L	368	50	50	417	420	99	104	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3925884 3925885

Parameter	Units	92651415007 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	51.3	52.7	103	105	90-110	3	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	106	107	90-110	1	10	
Sulfate	mg/L	ND	50	50	51.3	53.3	102	106	90-110	4	10	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

QC Batch: 755672
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: 92651576012, 92651580016, 92651580017, 92651580018

METHOD BLANK: 3926089 Matrix: Water
Associated Lab Samples: 92651576012, 92651580016, 92651580017, 92651580018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/14/23 13:03	
Fluoride	mg/L	ND	0.10	0.050	02/14/23 13:03	
Sulfate	mg/L	ND	1.0	0.50	02/14/23 13:03	

LABORATORY CONTROL SAMPLE: 3926090

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.9	100	90-110	
Fluoride	mg/L	2.5	2.6	105	90-110	
Sulfate	mg/L	50	49.1	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3926091 3926092

Parameter	Units	92651576004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	15.1	50	50	65.5	66.8	101	103	90-110	2	10	
Fluoride	mg/L	0.070J	2.5	2.5	2.6	2.7	101	104	90-110	3	10	
Sulfate	mg/L	89.7	50	50	147	148	114	116	90-110	1	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3926093 3926094

Parameter	Units	92651614002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.9	50	50	58.0	58.3	104	105	90-110	0	10	
Fluoride	mg/L	0.11	2.5	2.5	2.8	2.8	106	108	90-110	1	10	
Sulfate	mg/L	193	50	50	243	244	101	102	90-110	0	10	

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REPORT OF LABORATORY ANALYSIS

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

QC Batch: 755677
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: 92651580020, 92651580021, 92651580022, 92651580023, 92651580024, 92651580025

METHOD BLANK: 3926115 Matrix: Water
Associated Lab Samples: 92651580020, 92651580021, 92651580022, 92651580023, 92651580024, 92651580025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/14/23 23:36	
Fluoride	mg/L	ND	0.10	0.050	02/14/23 23:36	
Sulfate	mg/L	ND	1.0	0.50	02/14/23 23:36	

LABORATORY CONTROL SAMPLE: 3926116

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.2	100	90-110	
Fluoride	mg/L	2.5	2.7	107	90-110	
Sulfate	mg/L	50	50.4	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3926117 3926118

Parameter	Units	92651580020 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	51.6	52.4	103	104	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	105	107	90-110	2	10	
Sulfate	mg/L	ND	50	50	51.2	52.2	102	104	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3926119 3926120

Parameter	Units	92651824004 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	53.9	55.9	103	107	90-110	4	10	
Fluoride	mg/L	0.27	2.5	2.5	3.0	3.1	107	112	90-110	4	10	M1
Sulfate	mg/L	15.4	50	50	66.4	68.6	102	106	90-110	3	10	

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QUALIFIERS

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

BC	The same analyte was detected in an associated blank at a concentration above 1/2 the reporting limit but below the laboratory reporting limit.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
H1	Analysis conducted outside the EPA method holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92651580001	YAT-YGWC-23S				
92651580002	YAT-YGWC-42				
92651580003	YAT-PZ-37				
92651580005	YAT-PZ-37D				
92651580006	YAT-PZ-52D				
92651580009	YAT-YGWC-38				
92651580011	YAT-YGWC-41				
92651580012	YAT-YGWC-43				
92651580013	YAT-YAMW-2				
92651580014	YAT-YAMW-4				
92651580015	YAT-YAMW-5				
92651576012	YAT-PZ-35				
92651580016	YAT-YAMW-1				
92651580018	YAT-YGWC-36A				
92651580021	YAT-YGWC-24SB				
92651580022	YAT-PZ-51				
92651580024	YAT-YGWC-49				
92651580025	YAT-YAMW-3				
92651580001	YAT-YGWC-23S	EPA 3010A	757276	EPA 6010D	757302
92651580002	YAT-YGWC-42	EPA 3010A	757276	EPA 6010D	757302
92651580003	YAT-PZ-37	EPA 3010A	757276	EPA 6010D	757302
92651580004	YAT-AMA-R6-FD-3	EPA 3010A	757276	EPA 6010D	757302
92651580005	YAT-PZ-37D	EPA 3010A	757276	EPA 6010D	757302
92651580006	YAT-PZ-52D	EPA 3010A	757276	EPA 6010D	757302
92651580007	YAT-AMA-R6-EB-1	EPA 3010A	757276	EPA 6010D	757302
92651580008	YAT-AMA-R6-FB-2	EPA 3010A	757276	EPA 6010D	757302
92651580009	YAT-YGWC-38	EPA 3010A	757276	EPA 6010D	757302
92651580010	YAT-AMA-R6-FD-2	EPA 3010A	757276	EPA 6010D	757302
92651580011	YAT-YGWC-41	EPA 3010A	757276	EPA 6010D	757302
92651580012	YAT-YGWC-43	EPA 3010A	757276	EPA 6010D	757302
92651580013	YAT-YAMW-2	EPA 3010A	757276	EPA 6010D	757302
92651580014	YAT-YAMW-4	EPA 3010A	757276	EPA 6010D	757302
92651580015	YAT-YAMW-5	EPA 3010A	757276	EPA 6010D	757302
92651576012	YAT-PZ-35	EPA 3010A	757456	EPA 6010D	757555
92651580016	YAT-YAMW-1	EPA 3010A	757680	EPA 6010D	757761
92651580017	YAT-AMA-R6-FD-1	EPA 3010A	757680	EPA 6010D	757761
92651580018	YAT-YGWC-36A	EPA 3010A	757680	EPA 6010D	757761
92651580020	YAT-AMA-R6-FB-1	EPA 3010A	757680	EPA 6010D	757761
92651580021	YAT-YGWC-24SB	EPA 3010A	757680	EPA 6010D	757761
92651580022	YAT-PZ-51	EPA 3010A	757680	EPA 6010D	757761
92651580023	YAT-AMA-R6-EB-2	EPA 3010A	757680	EPA 6010D	757761
92651580024	YAT-YGWC-49	EPA 3010A	757680	EPA 6010D	757761
92651580025	YAT-YAMW-3	EPA 3010A	757680	EPA 6010D	757761
92651580001	YAT-YGWC-23S	EPA 3005A	757801	EPA 6020B	757937
92651580002	YAT-YGWC-42	EPA 3005A	757801	EPA 6020B	757937
92651580003	YAT-PZ-37	EPA 3005A	757801	EPA 6020B	757937
92651580004	YAT-AMA-R6-FD-3	EPA 3005A	757801	EPA 6020B	757937

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(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92651580005	YAT-PZ-37D	EPA 3005A	757801	EPA 6020B	757937
92651580006	YAT-PZ-52D	EPA 3005A	757801	EPA 6020B	757937
92651580007	YAT-AMA-R6-EB-1	EPA 3005A	757801	EPA 6020B	757937
92651580008	YAT-AMA-R6-FB-2	EPA 3005A	757801	EPA 6020B	757937
92651580009	YAT-YGWC-38	EPA 3005A	757801	EPA 6020B	757937
92651580010	YAT-AMA-R6-FD-2	EPA 3005A	757801	EPA 6020B	757937
92651580011	YAT-YGWC-41	EPA 3005A	757801	EPA 6020B	757937
92651580012	YAT-YGWC-43	EPA 3005A	757801	EPA 6020B	757937
92651580013	YAT-YAMW-2	EPA 3005A	757801	EPA 6020B	757937
92651580014	YAT-YAMW-4	EPA 3005A	757801	EPA 6020B	757937
92651580015	YAT-YAMW-5	EPA 3005A	757801	EPA 6020B	757937
92651576012	YAT-PZ-35	EPA 3005A	757520	EPA 6020B	757668
92651580016	YAT-YAMW-1	EPA 3005A	757801	EPA 6020B	757937
92651580017	YAT-AMA-R6-FD-1	EPA 3005A	757801	EPA 6020B	757937
92651580018	YAT-YGWC-36A	EPA 3005A	757801	EPA 6020B	757937
92651580020	YAT-AMA-R6-FB-1	EPA 3005A	757801	EPA 6020B	757937
92651580021	YAT-YGWC-24SB	EPA 3005A	757801	EPA 6020B	757937
92651580022	YAT-PZ-51	EPA 3005A	757842	EPA 6020B	758014
92651580023	YAT-AMA-R6-EB-2	EPA 3005A	757842	EPA 6020B	758014
92651580024	YAT-YGWC-49	EPA 3005A	758264	EPA 6020B	758347
92651580025	YAT-YAMW-3	EPA 3005A	758264	EPA 6020B	758347
92651580001	YAT-YGWC-23S	EPA 7470A	758956	EPA 7470A	759042
92651580002	YAT-YGWC-42	EPA 7470A	758956	EPA 7470A	759042
92651580003	YAT-PZ-37	EPA 7470A	758956	EPA 7470A	759042
92651580004	YAT-AMA-R6-FD-3	EPA 7470A	758956	EPA 7470A	759042
92651580005	YAT-PZ-37D	EPA 7470A	758956	EPA 7470A	759042
92651580006	YAT-PZ-52D	EPA 7470A	758956	EPA 7470A	759042
92651580007	YAT-AMA-R6-EB-1	EPA 7470A	758956	EPA 7470A	759042
92651580008	YAT-AMA-R6-FB-2	EPA 7470A	758956	EPA 7470A	759042
92651580009	YAT-YGWC-38	EPA 7470A	758956	EPA 7470A	759042
92651580010	YAT-AMA-R6-FD-2	EPA 7470A	758956	EPA 7470A	759042
92651580011	YAT-YGWC-41	EPA 7470A	758956	EPA 7470A	759042
92651580012	YAT-YGWC-43	EPA 7470A	758956	EPA 7470A	759042
92651580013	YAT-YAMW-2	EPA 7470A	758956	EPA 7470A	759042
92651580014	YAT-YAMW-4	EPA 7470A	758956	EPA 7470A	759042
92651580015	YAT-YAMW-5	EPA 7470A	758956	EPA 7470A	759042
92651576012	YAT-PZ-35	EPA 7470A	758312	EPA 7470A	758407
92651580016	YAT-YAMW-1	EPA 7470A	758956	EPA 7470A	759042
92651580017	YAT-AMA-R6-FD-1	EPA 7470A	758956	EPA 7470A	759042
92651580018	YAT-YGWC-36A	EPA 7470A	758956	EPA 7470A	759042
92651580020	YAT-AMA-R6-FB-1	EPA 7470A	758956	EPA 7470A	759042
92651580021	YAT-YGWC-24SB	EPA 7470A	758957	EPA 7470A	759041
92651580022	YAT-PZ-51	EPA 7470A	758957	EPA 7470A	759041
92651580023	YAT-AMA-R6-EB-2	EPA 7470A	758957	EPA 7470A	759041
92651580024	YAT-YGWC-49	EPA 7470A	758957	EPA 7470A	759041

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(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92651580025	YAT-YAMW-3	EPA 7470A	758957	EPA 7470A	759041
92651580001	YAT-YGWC-23S	SM 2540C-2015	755473		
92651580002	YAT-YGWC-42	SM 2540C-2015	755473		
92651580003	YAT-PZ-37	SM 2540C-2015	755473		
92651580004	YAT-AMA-R6-FD-3	SM 2540C-2015	755473		
92651580005	YAT-PZ-37D	SM 2540C-2015	755473		
92651580006	YAT-PZ-52D	SM 2540C-2015	755473		
92651580007	YAT-AMA-R6-EB-1	SM 2540C-2015	755473		
92651580008	YAT-AMA-R6-FB-2	SM 2540C-2015	755473		
92651580009	YAT-YGWC-38	SM 2540C-2015	755473		
92651580010	YAT-AMA-R6-FD-2	SM 2540C-2015	755473		
92651580011	YAT-YGWC-41	SM 2540C-2015	755473		
92651580012	YAT-YGWC-43	SM 2540C-2015	755473		
92651580013	YAT-YAMW-2	SM 2540C-2015	755730		
92651580014	YAT-YAMW-4	SM 2540C-2015	755730		
92651580015	YAT-YAMW-5	SM 2540C-2015	755730		
92651576012	YAT-PZ-35	SM 2540C-2015	755982		
92651580016	YAT-YAMW-1	SM 2540C-2015	755997		
92651580017	YAT-AMA-R6-FD-1	SM 2540C-2015	756280		
92651580018	YAT-YGWC-36A	SM 2540C-2015	756280		
92651580020	YAT-AMA-R6-FB-1	SM 2540C-2015	755997		
92651580021	YAT-YGWC-24SB	SM 2540C-2015	756280		
92651580022	YAT-PZ-51	SM 2540C-2015	755997		
92651580023	YAT-AMA-R6-EB-2	SM 2540C-2015	755997		
92651580024	YAT-YGWC-49	SM 2540C-2015	755997		
92651580025	YAT-YAMW-3	SM 2540C-2015	755997		
92651580001	YAT-YGWC-23S	SM 2320B-2011	756067		
92651580002	YAT-YGWC-42	SM 2320B-2011	756067		
92651580003	YAT-PZ-37	SM 2320B-2011	756067		
92651580004	YAT-AMA-R6-FD-3	SM 2320B-2011	756067		
92651580005	YAT-PZ-37D	SM 2320B-2011	756067		
92651580006	YAT-PZ-52D	SM 2320B-2011	756067		
92651580007	YAT-AMA-R6-EB-1	SM 2320B-2011	756067		
92651580008	YAT-AMA-R6-FB-2	SM 2320B-2011	756067		
92651580009	YAT-YGWC-38	SM 2320B-2011	756067		
92651580010	YAT-AMA-R6-FD-2	SM 2320B-2011	756067		
92651580011	YAT-YGWC-41	SM 2320B-2011	756119		
92651580012	YAT-YGWC-43	SM 2320B-2011	756119		
92651580013	YAT-YAMW-2	SM 2320B-2011	756119		
92651580014	YAT-YAMW-4	SM 2320B-2011	756119		
92651580015	YAT-YAMW-5	SM 2320B-2011	756119		
92651576012	YAT-PZ-35	SM 2320B-2011	756264		
92651580016	YAT-YAMW-1	SM 2320B-2011	756267		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates AMA-R6
Pace Project No.: 92651580

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92651580017	**YAT-AMA-R6-FD-1**	SM 2320B-2011	756267		
92651580018	**YAT-YGWC-36A**	SM 2320B-2011	756267		
92651580020	**YAT-AMA-R6-FB-1**	SM 2320B-2011	756267		
92651580021	**YAT-YGWC-24SB**	SM 2320B-2011	756267		
92651580022	**YAT-PZ-51**	SM 2320B-2011	756267		
92651580023	**YAT-AMA-R6-EB-2**	SM 2320B-2011	756267		
92651580024	**YAT-YGWC-49**	SM 2320B-2011	756267		
92651580025	**YAT-YAMW-3**	SM 2320B-2011	756267		
92651580001	**YAT-YGWC-23S**	EPA 300.0 Rev 2.1 1993	755348		
92651580002	**YAT-YGWC-42**	EPA 300.0 Rev 2.1 1993	755348		
92651580003	**YAT-PZ-37**	EPA 300.0 Rev 2.1 1993	755348		
92651580004	**YAT-AMA-R6-FD-3**	EPA 300.0 Rev 2.1 1993	755348		
92651580005	**YAT-PZ-37D**	EPA 300.0 Rev 2.1 1993	755348		
92651580006	**YAT-PZ-52D**	EPA 300.0 Rev 2.1 1993	755348		
92651580007	**YAT-AMA-R6-EB-1**	EPA 300.0 Rev 2.1 1993	755348		
92651580008	**YAT-AMA-R6-FB-2**	EPA 300.0 Rev 2.1 1993	755348		
92651580009	**YAT-YGWC-38**	EPA 300.0 Rev 2.1 1993	755348		
92651580010	**YAT-AMA-R6-FD-2**	EPA 300.0 Rev 2.1 1993	755348		
92651580011	**YAT-YGWC-41**	EPA 300.0 Rev 2.1 1993	755595		
92651580012	**YAT-YGWC-43**	EPA 300.0 Rev 2.1 1993	755595		
92651580013	**YAT-YAMW-2**	EPA 300.0 Rev 2.1 1993	755595		
92651580014	**YAT-YAMW-4**	EPA 300.0 Rev 2.1 1993	755595		
92651580015	**YAT-YAMW-5**	EPA 300.0 Rev 2.1 1993	755595		
92651576012	**YAT-PZ-35**	EPA 300.0 Rev 2.1 1993	755672		
92651580016	**YAT-YAMW-1**	EPA 300.0 Rev 2.1 1993	755672		
92651580017	**YAT-AMA-R6-FD-1**	EPA 300.0 Rev 2.1 1993	755672		
92651580018	**YAT-YGWC-36A**	EPA 300.0 Rev 2.1 1993	755672		
92651580020	**YAT-AMA-R6-FB-1**	EPA 300.0 Rev 2.1 1993	755677		
92651580021	**YAT-YGWC-24SB**	EPA 300.0 Rev 2.1 1993	755677		
92651580022	**YAT-PZ-51**	EPA 300.0 Rev 2.1 1993	755677		
92651580023	**YAT-AMA-R6-EB-2**	EPA 300.0 Rev 2.1 1993	755677		
92651580024	**YAT-YGWC-49**	EPA 300.0 Rev 2.1 1993	755677		
92651580025	**YAT-YAMW-3**	EPA 300.0 Rev 2.1 1993	755677		

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

Effective Date: 11/14/2022

boratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mer

WO# : 92651580

92651580

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

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

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.1 Correction Factor: Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 2.2

USDA Regulated Soil (☐ N/A, water sample)

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

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ 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:

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

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

***Check all unpreserved Nitrates for chlorine

Project # **WO# : 92651580**

PM: BV Due Date: 02/23/23

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	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)	BOTTLE	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																												

pH Adjustment Log for Preserved Samples

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

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 2

Section A — Required Client Information:

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

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Task No:	YAT-CCR-ASSMT-202301
Purchase Order #:	
Project Name:	Plant Yates AMA-R6
Project Number:	

Section C — Invoice Information:

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

Regulatory Agency:

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test: V/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	Residual Chlorine (Y/N)
1	YAT-YGWC-23S	WG	G	2/8	1535	–	–		6	2		3						X	X	X	X	X	X	9265150
2	YAT-YAMW-1	WG	G			–	–		5	2		3						X	X	X	X	X	X	pH: 5.33 DUP
3	YAT-AMA-FD-1	WG	G			–	–		5	2		3						X	X	X	X	X	X	pH:
4	YAT-YGWC-36A	WG	G			–	–		5	2		3						X	X	X	X	X	X	pH:
5	YAT-YGWC-49	WG	G			–	–		5	2		3						X	X	X	X	X	X	pH:
6	YAT-YGWC-38	WG	G			–	–		5	2		3						X	X	X	X	X	X	pH:
7	YAT-AMA-FD-2	WG	G			–	–		5	2		3						X	X	X	X	X	X	pH:
8	YAT-YGWC-41	WG	G			–	–		5	2		3						X	X	X	X	X	X	pH:
9	YAT-YGWC-42	WG	G			–	–		5	2		3						X	X	X	X	X	X	pH:
10	YAT-YGWC-43	WG	G	2/9	1736	–	–		6	3		3						X	X	X	X	X	X	pH:
11	YAT-YAMW-2	WG	G			–	–		6	2		3						X	X	X	X	X	X	pH: 5.48 GW
12	YAT-YAMW-3	WG	G			–	–		5	2		3						X	X	X	X	X	X	pH:
						–	–		5	2		3						X	X	X	X	X	X	pH:
						–	–		5	2		3						X	X	X	X	X	X	pH:

Matrix codes: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

Residual Chlorine (Y/N): 9265150

ADDITIONAL COMMENTS

Anions Suite 300.0 (Cl, F, Sulfate)

App III Metals: Boron 6020B, Ca 6010D

Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event.

Alkalinity - report total, carbonate, and bicarbonate

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
/Arcadis	2/9/23	0855		2/9/23	0850
	2/9/23	0920	Ryan Willis / Pace	2/9/23	0920
Ryan Willis / Pace	2/9/23	1235		2/9/23	1235

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jessica Wade

SIGNATURE of SAMPLER: Jessica Wade DATE Signed: 2/9/23

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 of 2

Section A — Required Client Information:
Company: GA Power
Address: Atlanta, GA
Email To: laycoker@southernco.com
Phone: 470.620.6176 Fax:
Requested Due Date: Std TAT

Section B — Required Project Information:
Report To: SCS Contacts
Copy To: Arcadis Contacts
Task No: YAT-CCR-ASSMT-202301
Purchase Order #:
Project Name: Plant Yates AMA-R6
Project Number:

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

Regulatory Agency:
State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	Requested Analysis Filtered (Y/N): App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD (9315/9320)	Alkalinity (SM2320B)	Residual Chlorine (Y/N)	92651580
1	YAT-YAMW-4	WG	G			–	–		6	3		3							X	X	X	X	X		pH:
2	YAT-YAMW-5	WG	G			–	–		6	3		3							X	X	X	X	X		pH:
3	YAT-PZ-37	WG	G	2/8	0946	–	–		6	3		3							X	X	X	X	X		pH: 5.15 055
4	YAT-AMA-R6-FD-3	WG	G	2/8	—	–	–		6	3		3							X	X	X	X	X		pH: — 064
5	YAT-PZ-37D	WG	G	2/8	1348	–	–		6	3		3							X	X	X	X	X		pH: 7.95 056
6	YAT-PZ-51	WG	G			–	–		6	3		3							X	X	X	X	X		pH:
7	YAT-PZ-52D	WG	G	2/8	1116	–	–		6	3		3							X	X	X	X	X		pH: 6.12 060
8	YAT-PZ-35	WG	G			–	–		6	3		3							X	X	X	X	X		pH:
9	YAT-AMA-R6-EB-1	WG	G	2/8	1840	–	–		6	3		3							X	X	X	X	X		pH: — 057
10	YAT-AMA-R6-EB-2	WG	G			–	–		6	3		3							X	X	X	X	X		pH:
11	YAT-AMA-R6-FB-1	WG	G			–	–		6	3		3							X	X	X	X	X		pH:
12	YAT-AMA-R6-FB-2	WG	G	2/8	1100	–	–		6	3		3							X	X	X	X	X		pH: — 056

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS

Anions Suite 300.0 (Cl, F, Sulfate)

App III Metals: Boron 6020B, Ca 6010D

App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). **Also add Ca, Na, K for this event.**
Alkalinity - report total, carbonate, and bicarbonate

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
/Arcadis	2/9/23	0855		2/9/23	0855
	2/9/23	0920	Ryan Williams / Pace	2/9/23	0920
Ryan Williams / Pace	2/9/23	1235		2/9/23	1235

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: (Arcadis) - Jessica Ware

SIGNATURE of SAMPLER: (Arcadis)

DATE Signed: 2/9/23

SAMPLE CONDITIONS

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

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

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mech... ☐ ... ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO# : 92651580

PM: BV Due Date: 02/23/23

CLIENT: GA-GA Power

Courier: ☐ Commercial ☑ Fed Ex ☐ UPS ☐ USPS ☑ Pace ☐ Other: ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

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

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

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

Cooler Temp: 2.1 Correction Factor: Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 2.2

USDA Regulated Soil (☐ N/A, water sample)

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

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ 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:

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

Effective Date: 11/14/2022

WO# : 92651580

PM: BV Due Date: 02/23/23

CLIENT: GA-GA Power

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

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)	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)	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		2	1			1																			2				
6		2	1			1																			2				
7		2	1			1																			2				
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 Of 2

Section A – Required Client Information:

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

Section B – Required Project Information:

Report To:	SCS Contects
Copy To:	Arcadis Contacts
Task No:	YAT-CCR-ASSMT-202351
Purchase Order #:	
Project Name:	Plant Yates AMA-R6
Project Number:	

Section C – Invoice Information:

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

Regulatory Agency: —

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	Requested Analysis Filtered (Y/N): App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	Residual Chlorine (Y/N)	4260515790
1	YAT-YGWC-23S	WG	G			–	–		5	2		3						X	X	X	X	X	X			
2	YAT-YAMW-1	WG	G			–	–		5	2		3						X	X	X	X	X	X			pH:
3	YAT-AMA-FD-1	WG	G			–	–		5	2		3						X	X	X	X	X	X			pH:
4	YAT-YGWC-36A	WG	G			–	–		5	2		3						X	X	X	X	X	X			pH:
5	YAT-YGWC-49	WG	G			–	–		5	2		3						X	X	X	X	X	X			pH:
6	YAT-YGWC-38	WG	G	2/8/23	0930	–	–		5	2		3						X	X	X	X	X	X			pH:
7	~~YAT-AMA-FD-2~~ YAT-AMA-R6-FD-2	WG	G	2/8/23	—	–	–		5	2		3						X	X	X	X	X	X			pH: 5.16 009
8	YAT-YGWC-41	WG	G	2/8/23	1630	–	–		5	2		3						X	X	X	X	X	X			pH: — 010
9	YAT-YGWC-42	WG	G			–	–		5	2		3						X	X	X	X	X	X			pH: 4.69 011
10	YAT-YGWC-43	WG	G	2/8/23	1800	–	–		5	2		3						X	X	X	X	X	X			pH:
11	YAT-YAMW-2	WG	G	2/8/23	1355	–	–		5	2		3						X	X	X	X	X	X			pH: 5.40 012
12	YAT-YAMW-3	WG	G			–	–		5	2		3						X	X	X	X	X	X			pH: 5.95 013
																										pH:

ADDITIONAL COMMENTS

Antons Suite 300.0 (Cl, F, Sulfate)

App III Metals: Boron 6020B, Ca 6010D

Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se)
7040A: Mercury (Hg). Also add Ca, Na, K for this event.
Alkalinity – report total, carbonate, and bicarbonate

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
/Arcadis	2/9/23	0900		2/9/23	0900
Kim Lapszynski/AP	2/9/23	0920	Ryan Williams/Pace	2/9/23	0920
Ryan Williams/Pace	2/9/23	1235		2/9/23	1235

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kim Lapszynski

SIGNATURE of SAMPLER: DATE Signed: 2/9/23

SAMPLE CONDITIONS

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 Of 2

Section A – Required Client Information:

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

Section B – Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Task No:	YAT-CCR-ASSMT-202301
Purchase Order #:	
Project Name:	Plant Yates AMA-R6
Project Number:	

Section C – Invoice Information:

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

Regulatory Agency: —

State / Location: Georgia

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID	MATRIX CODE (use valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	Residual Chlorine (Y/N)	92651880
1	YAT-YAMW-4	WG	G	2/8/23	1152	–	–		6	3		3						X	X	X	X	X			pH: 6.49 (DL)
2	YAT-YAMW-5	WG	G	2/8/23	1058	–	–		6	3		3						X	X	X	X	X			pH: 5.67 (BL)
3	YAT-PZ-37	WG	G			–	–		6	3		3						X	X	X	X	X			pH:
4	YAT-AMA-R6-FD-3	WG	G			–	–		6	3		3						X	X	X	X	X			pH:
5	YAT-PZ-37D	WG	G			–	–		6	3		3						X	X	X	X	X			pH:
6	YAT-PZ-51	WG	G			–	–		6	3		3						X	X	X	X	X			pH:
7	YAT-PZ-52D	WG	G			–	–		6	3		3						X	X	X	X	X			pH:
8	YAT-PZ-35	WG	G			–	–		6	3		3						X	X	X	X	X			pH:
9	YAT-AMA-R6-EB-1	WG	G			–	–		6	3		3						X	X	X	X	X			pH:
10	YAT-AMA-R6-EB-2	WG	G			–	–		6	3		3						X	X	X	X	X			pH:
11	YAT-AMA-R6-FB-1	WG	G			–	–		6	3		3						X	X	X	X	X			pH:
12	YAT-AMA-R6-FB-2	WG	G			–	–		6	3		3						X	X	X	X	X			pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/9/23	0900		2/9/23	0503
App III Metals: Boron 6020B, Ca 6010D	Kim Lapszynski	2/9/23	0520	Ryan Williams / Pace	2/9/23	0920
App IV Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate	Ryan Williams / Pace	2/9/23	1235		2/9/23	1235

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: (Arcadis) - Kim Lapszynski

SIGNATURE of SAMPLER: (Arcadis) - DATE Signed: 2/9/23

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 3

Section A — Required Client Information:

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

Section B — Required Project Information:

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

Section C — Invoice Information:

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

Regulatory Agency:

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	Residual Chlorine (Y/N)	92651580
1	YAT-YGWC-23S	WG	G			--	--		5	2		3						X	X	X	X	X			pH:
2	YAT-YAMW-1	WG	G	2/9/23	1531	--	--	6.8	5	2		3						X	X	X	X	X			pH: 5.73
3	~~YAT-AMA-FD-1~~ YAT-AMA-R6-FD-1	WG	G	2/9/23	—	--	--	6.8	5	2		3						X	X	X	X	X			pH: —
4	YAT-YGWC-36A	WG	G	2/9/23	1310	--	--	6.8	5	2		3						X	X	X	X	X			pH: 5.67
5	YAT-YGWC-49	WG	G			--	--		5	2		3						X	X	X	X	X			pH:
6	YAT-YGWC-38	WG	G			--	--		5	2		3						X	X	X	X	X			pH:
7	YAT-AMA-FD-2	WG	G			--	--		5	2		3						X	X	X	X	X			pH:
8	YAT-YGWC-41	WG	G			--	--		5	2		3						X	X	X	X	X			pH:
9	YAT-YGWC-42	WG	G			--	--		5	2		3						X	X	X	X	X			pH:
10	YAT-YGWC-43	WG	G			--	--		5	2		3						X	X	X	X	X			pH:
11	YAT-YAMW-2	WG	G			--	--		5	2		3						X	X	X	X	X			pH:
12	YAT-YAMW-3	WG	G			--	--		5	2		3						X	X	X	X	X			pH:

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kim Lipsenski

SIGNATURE of SAMPLER: DATE Signed: 2/10/23

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

WO# : 92651580

PM: BV Due Date: 02/23/23

CLIENT: GA-GA Power

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 of 3

Section A — Required Client Information:

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

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Task No:	YAT-CCR-ASSMT-202301
Purchase Order #:	
Project Name:	Plant Yates AMA-R6
Project Number:	

Section C — Invoice Information:

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

Regulatory Agency: —

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (Use valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analytical Test: App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	Residual Chlorine (Y/N)
	MATRIX CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS																	Y/N					
1	YAT-YAMW-4	WG	G			–	–		6	3		3							x	x	x	x	x	pH:
2	YAT-YAMW-5	WG	G			–	–		6	3		3							x	x	x	x	x	pH:
3	YAT-PZ-37	WG	G			–	–		6	3		3							x	x	x	x	x	pH:
4	YAT-AMA-R6-FD-3	WG	G			–	–		6	3		3							x	x	x	x	x	pH:
5	YAT-PZ-37D	WG	G			–	–		6	3		3							x	x	x	x	x	pH:
6	YAT-PZ-51	WG	G			–	–		6	3		3							x	x	x	x	x	pH:
7	YAT-PZ-52D	WG	G	2/9/23	1448	–	–		6	3		3							x	x	x	x	x	pH:
8	YAT-PZ-35	WG	G			–	–		6	3		3							x	x	x	x	x	pH: 6.19
9	YAT-AMA-R6-EB-1	WG	G			–	–		6	3		3							x	x	x	x	x	pH: 5.50
10	YAT-AMA-R6-EB-2	WG	G			–	–		6	3		3							x	x	x	x	x	pH:
11	YAT-AMA-R6-FB-1	WG	G	2/9/23	1455	–	–		6	3		3							x	x	x	x	x	pH:
12	YAT-AMA-R6-FB-2	WG	G			–	–		6	3		3							x	x	x	x	x	pH: — 6.20

Residual Chlorine (Y/N): 92651580

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	(Arcadis)	2/10/23	1700	(Arcadis)	2/10/23	1200	
App III Metals: Boron 6020B, Ca 6010D	Kim Lapszynski						
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). **Also add Ca, Na, K for this event.** **Alkalinity - report total, carbonate, and bicarbonate**		2/10/23	1400		2/10/23	1400	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:	(Arcadis) - Kim Lapszynski		
SIGNATURE of SAMPLER:	(Arcadis) -	DATE Signed:	2/10/23

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

WO#: 92651580

PM: BV Due Date: 02/23/23

CLIENT: GA-GA Power

Page: 3 Of 3

Section A Required Client Information:

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

Section B Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Task No:	YAT-CCR-ASSMT-202301
Purchase Order #:	
Project Name:	Plant Yates AMA-R6
Project Number:	

Section C Invoice Information:

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

Regulatory Agency: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	Residual Chlorine (Y/N)	92651580
1	YAT-YGWC-24SB	WG	G	2/10/23	0845	–	–		6	3		3							x	x	x	x	x		pH: 5.67 DL
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/10/23	1200	/Arcadis	2/10/23	1200	
App III Metals: Boron 6020B, Ca 6010D							
App IV Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Be), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate		2/10/23	1400		2/10/23	1401	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: (Arcadis) - Kim Lapczynska

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

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

WO#: 92651580

PM: BV Due Date: 02/23/23

CLIENT: GA-GA Power

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 Of 2

Section A — Required Client Information:

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

Section B — Required Project Information:

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

Section C — Invoice Information:

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

Regulatory Agency: —

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	Residual Chlorine (Y/N)	92651580
1	YAT-YAMW-4	WG	G			–	–		6	3		3							X	X	X	X	X		pH:
2	YAT-YAMW-5	WG	G			–	–		6	3		3							X	X	X	X	X		pH:
3	YAT-PZ-37	WG	G			–	–		6	3		3							X	X	X	X	X		pH:
4	YAT-AMA-R6-FD-3	WG	G			–	–		6	3		3							X	X	X	X	X		pH:
5	YAT-PZ-37D	WG	G			–	–		6	3		3							X	X	X	X	X		pH:
6	YAT-PZ-51	WG	G	2/9	1601	–	–		6	3		3							X	X	X	X	X		pH: 5.14 022
7	YAT-PZ-52D	WG	G			–	–		6	3		3							X	X	X	X	X		pH:
8	YAT-PZ-35	WG	G			–	–		6	3		3							X	X	X	X	X		pH:
9	YAT-AMA-R6-EB-1	WG	G			–	–		6	3		3							X	X	X	X	X		pH:
10	YAT-AMA-R6-EB-2	WG	G	2/9	1725	–	–		6	3		3							X	X	X	X	X		pH:
11	YAT-AMA-R6-FB-1	WG	G			–	–		6	3		3							X	X	X	X	X		pH: — 023
12	YAT-AMA-R6-FB-2	WG	G			–	–		6	3		3							X	X	X	X	X		pH:

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:	(Arcadis): Jessica Ware	
SIGNATURE of SAMPLER:	(Arcadis):	DATE Signed: 2/10/23

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

WO#: 92651580

PM: BV Due Date: 02/23/23

CLIENT: GA-GA Power

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A – Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	laucoker@southernco.com
Phone:	470.620.6176 Fax
Requested Due Date:	5 DD TAT

Section B – Required Project Information:

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

Section C – Invoice Information:

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

Regulatory Agency:

State / Location: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	Residual Chlorine (Y/N)	92651580
1	YAT-YGWC-23S	WG	G			--	--		5	2		3						X	X	X	X	X	X		pH:
2	YAT-YAMW-1	WG	G			--	--		5	2		3						X	X	X	X	X	X		pH:
3	YAT-AMA-FD-1	WG	G			--	--		5	2		3						X	X	X	X	X	X		pH:
4	YAT-YGWC-36A	WG	G			--	--		5	2		3						X	X	X	X	X	X		pH:
5	YAT-YGWC-49	WG	G	2/9/23	1500	--	--		6	3		3						X	X	X	X	X	X		pH: 5.61 624
6	YAT-YGWC-38	WG	G			--	--		5	2		3						X	X	X	X	X	X		pH:
7	YAT-AMA-FD-2	WG	G			--	--		5	2		3						X	X	X	X	X	X		pH:
8	YAT-YGWC-41	WG	G			--	--		5	2		3						X	X	X	X	X	X		pH:
9	YAT-YGWC-42	WG	G			--	--		5	2		3						X	X	X	X	X	X		pH:
10	YAT-YGWC-43	WG	G			--	--		5	2		3						X	X	X	X	X	X		pH:
11	YAT-YAMW-2	WG	G			--	--		5	2		3						X	X	X	X	X	X		pH:
12	YAT-YAMW-3	WG	G			--	--		5	2		3						X	X	X	X	X	X		pH:

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chait (Arcadis)

SIGNATURE of SAMPLER: [signature] DATE Signed: 2/10/23

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

WO#: 92651580

PM: BV Due Date: 02/23/23

CLIENT: GA-GA Power

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : Of

Section A — Required Client Information:

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

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Task No:	YAT-CCR-ASSMT-202301
Purchase Order #:	
Project Name:	Plant Yates AMA-R6
Project Number:	

Section C — Invoice Information:

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

Regulatory Agency:

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N	Analysis Test: App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	Residual Chlorine (Y/N)	92651586
1	YAT-YGWC-23S	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
2	YAT-YAMW-1	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
3	YAT-AMA-FD-1	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
4	YAT-YGWC-36A	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
5	YAT-YGWC-49	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
6	YAT-YGWC-38	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
7	YAT-AMA-FD-2	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
8	YAT-YGWC-41	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
9	YAT-YGWC-42	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
10	YAT-YGWC-43	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
11	YAT-YAMW-2	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
12	YAT-YAMW-3	WG	G	2/9/23	1117	–	–		6 3			3							X	X	X	X	X		pH: 5.89 025

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica Ware (Arcadis)	2/10/23	1400	Charles Hunt	2/10/23	1408	
App III Metals: Boron 6020B, Ca 6010D		2/10/23	1440				
Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). **Also add Ca, Na, K for this event.** **Alkalinity – report total, carbonate, and bicarbonate**							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jessica Ware

SIGNATURE of SAMPLER: Jessica Ware DATE Signed: 2/10/23

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

Upgradient Wells

Georgia Power Co. – Plant Yates

Data Review Report

Metals, General Chemistry, and Radium Analyses

SDGs #92651382 and 92651421

Analyses Performed By:
Pace Analytical Services – Asheville, North Carolina
Pace Analytical Services – Peachtree Corners, Georgia
Pace Analytical Services – Greensburg, Pennsylvania

Report #49109R
Review Level: Tier II
Project: 30143607.3B

Summary

This Data Review Report summarizes the review of Sample Delivery Groups (SDGs) #92651382 and 92651421 for samples collected in association with the Georgia Power Company – Plant Yates. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the chain of custody form and a table summarizing the data validation qualifiers. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YAT-YGWA-1I	92651382001 92651421001	Water	2/7/2023		X	X	X
YAT-YGWA-1D	92651382002 92651421002	Water	2/7/2023		X	X	X
YAT-YGWA-2I	92651382003 92651421003	Water	2/7/2023		X	X	X
YAT-GWA-2	92651382004 92651421004	Water	2/7/2023		X	X	X
YAT-YGWA-5D	92651382005 92651421005	Water	2/7/2023		X	X	X
YAT-YGWA-20S	92651382006 92651421006	Water	2/7/2023		X	X	X
YAT-YGWA-21I	92651382007 92651421007	Water	2/7/2023		X	X	X
YAT-YGWA-17S	92651382008 92651421008	Water	2/7/2023		X	X	X
YAT-YGWA-18S	92651382009 92651421009	Water	2/7/2023		X	X	X
YAT-YGWA-18I	92651382010 92651421010	Water	2/7/2023		X	X	X
YAT-YGWA-39	92651382011 92651421011	Water	2/7/2023		X	X	X
YAT-YGWA-47	92651382012 92651421012	Water	2/8/2023		X	X	X

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YAT-YGWA-30I	92651382013 92651421013	Water	2/8/2023		X	X	X
YAT-YGWA-14S	92651382014 92651421014	Water	2/8/2023		X	X	X
YAT-YGWA-3I	92651382015 92651421015	Water	2/8/2023		X	X	X
YAT-YGWA-3D	92651382016 92651421016	Water	2/8/2023		X	X	X
YAT-YGWA-40	92651382017 92651421017	Water	2/8/2023		X	X	X
YAT-YGWA-4I	92651382018 92651421018	Water	2/9/2023		X	X	X
YAT-YGWA-5I	92651382019 92651421019	Water	2/9/2023		X	X	X

Notes:

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

Analytical Data Package Documentation

The table below evaluates the data package completeness.

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

Note:
QA = quality assurance

Inorganic Analysis Introduction

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

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

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

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

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

Metals Analyses

1. Holding Times

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

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

Note:
s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

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

Analytes were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

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

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

3.1 MS/MSD Analysis

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

The MS/MSD analysis was performed using sample YAT-YGWA-2I in association with SW-846 6010D analysis, however the concentrations of calcium and sodium in the unspiked sample were greater than four-times the spike concentration. The MS/MSD sample results were not evaluated.

The MS/MSD analysis performed using sample YAT-YGWA-21I in association with SW-846 6020B analysis exhibited recoveries within the control limits.

MS/MSD analysis was not performed using a sample from this SDG in association with SW-846 7470A analysis.

3.2 Laboratory Duplicate Analysis

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

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis in association with SW-846 6010D and SW-846 6020B. The MS/MSD recoveries exhibited acceptable RPDs.

Laboratory duplicate or MS/MSD analysis was not performed using a sample from this SDG in association with SW-846 7470A analysis.

4. Field Duplicate Analysis

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

A field duplicate sample was not collected in association with this SDG.

5. Laboratory Control Sample (LCS) Analysis

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

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

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

Data Validation Checklist for Metals

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

Notes:

%R Percent recovery

RPD Relative percent difference

General Chemistry Analyses

1. Holding Times

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

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

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

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

Analytes were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

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

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

3.1 MS/MSD Analysis

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

The MS/MSD analysis performed using samples YAT-YGWA-1I, YAT-YGWA-1D, YAT-YGWA-4I, and YAT-YGWA-5I in association with alkalinity analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed using samples YAT-YGWA-18I and YAT-YGWA-3I in association with anions analysis exhibited recoveries within the control limits.

3.2 Laboratory Duplicate Analysis

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

The laboratory duplicate analysis performed using samples YAT-YGWA-17S and YAT-YGWA-47 in association with TDS analysis exhibited an RPD or difference in the results within the control limit.

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

4. Field Duplicate Analysis

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

A field duplicate sample was not collected in association with this SDG.

5. Laboratory Control Sample (LCS) Analysis

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

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

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

Data Validation Checklist for General Chemistry

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

Notes:

%R Percent recovery

RPD Relative percent difference

Radiological Analyses

1. Holding Times

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

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

Note:
s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

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

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

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

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

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

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

Radium-228 was detected in the method blank at an activity greater than the uncertainty and MDC. The NAD was calculated for each sample. The Radium-228 results in samples YAT-GWA-2, YAT-YGWA-5D, YAT-YGWA-21I, YAT-YGWA-39, YAT-YGWA-3I, and YAT-YGWA-3D were qualified as "J" since the NAD were less than 1.96. No qualifiers were assigned to the Radium-228 results in samples YAT-YGWA-1I, YAT-YGWA-1D, YAT-YGWA-2I, YAT-YGWA-20S, YAT-YGWA-17S, YAT-YGWA-18S, YAT-YGWA-18I, YAT-YGWA-47, YAT-YGWA-30I, and YAT-YGWA-14S since the activities were less than the MDC.

3. Matrix Spike (MS)/Laboratory Duplicate Analysis

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

3.1 MS Analysis

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

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

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

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

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

Where:

x = measured concentration of the spiked sample.

x_0 = measured concentration of the unspiked sample.

c = spike concentration added.

$u^2(x)$, $u^2(x0)$, $u^2(c)$ = the squares of the respective standard uncertainties of these values.

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

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

3.2 Laboratory Duplicate Analysis

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

The numerical performance indicator for laboratory duplicates is calculated by:

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

Where:

x_1, x_2 = two measured activity concentrations.

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

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

Laboratory duplicate analysis was not performed using a sample from this SDG.

4. Field Duplicate Analysis

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

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

A field duplicate sample was not collected in association with this SDG.

5. Tracer or Carrier

Tracers and carriers are used in radiological separation methods to provide evaluation of chemical separation. Chemical yield is evaluated through the recovery of chemical species spiked into samples. Yield is evaluated

radiometrically with a tracer and gravimetrically with a carrier. A control limit of 30% to 110% is applied to each sample spiked with either a carrier and/or a tracer.

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

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

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

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

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

Where:

x = Analytical result of the LCS

c = Known concentration of the LCS

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

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

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

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

7. Isotope Identification

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

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

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

- YAT-GWA-2 – Radium-226
- YAT-YGWA-4I – Radium-228
- YAT-YGWA-1I, YAT-YGWA-1D, YAT-YGWA-2I, YAT-YGWA-20S, YAT-YGWA-17S, YAT-YGWA-18S, YAT-YGWA-18I, YAT-YGWA-47, YAT-YGWA-30I, YAT-YGWA-14S, YAT-YGWA-5I – Radium-226, Radium-228, and total Radium

8. System Performance and Overall Assessment

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

Data Validation Checklist for Radiologicals

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

Notes:

%R Percent recovery

RPD Relative percent difference

VALIDATION PERFORMED BY: Jennifer Singer

SIGNATURE: 

DATE: April 24, 2023

PEER REVIEW: Joseph C. Houser

DATE: May 8, 2023

Chain of Custody / Data Qualifier Summary Table

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A — Required Client Information:

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

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Task No:	YAT-CCR-ASSMT-292381
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C — Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Nicole D'Olera
Pace Profile #:	10840

Regulatory Agency:

State / Location: Georgia

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	92651421
1	YAT-YGWA-3S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
2	YAT-YGWA-4D	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
3	YAT-YGWA-1I	WG	G	2/7/23	1145	--	--		6	3		3							X	X	X	X	X			pH: 6.53 LOT
4	YAT-YGWA-1D	WG	G	2/7/23	1340	--	--		6	3		3							X	X	X	X	X			pH: 7.86 LOT
5	YAT-YGWA-2I	WG	G	2/7/23	1540	--	--		6	3		3							X	X	X	X	X			pH: 6.94 LOT
6	YAT-YGWA-3I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
7	YAT-YGWA-3D	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
8						--	--																			pH:
9						--	--																			pH:
10						--	--																			pH:
11						--	--																			pH:
12						--	--																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jake Swanson /Arcadis	2/8/23	0800	[signature] Arcadis	2/8/23	0800	
App III Metals: Boron 6020B, Ca 6010D; App VIII 6020B: Zn, Ag, Ni, V	[signature] /Arcadis	2/8/23	0900	Ryan Williams / Pace	2/9/23	0900	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate	Ryan Williams / Pace	2/9/23	1240				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: (Arcadis) - Jake Swanson

SIGNATURE of SAMPLER: (Arcadis) - [signature] DATE Signed: 2/8/23

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A — Required Client Information:

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

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Task No:	YAT-CCR-ASSMT-207351
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C — Invoice Information:

Attention:	Southern Co
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	~~Nicole D'Olso~~ Bonnie Very
Pace Profile #:	10840

Regulatory Agency	
State / Location	Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (use valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RaD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	9265142
1	YAT-YGWA-4I	WG	G			--	--		6	3		3							X	X	X	X	X			
2	YAT-GWA-2	WG	G	2/1/23	1145	--	--		6	3		3							X	X	X	X	X	X			pH: 5.94
3	YAT-YGWA-4I	WG	G			--	--		6	3		3							X	X	X	X	X				pH: 6.04
4	YAT-YGWA-5I	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
5	YAT-YGWA-5D	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
6	YAT-YGWA-17S	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
7	YAT-YGWA-18S	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
8	YAT-YGWA-18I	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
9	YAT-YGWA-20S	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
10	YAT-YGWA-21I	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
11	YAT-YGWA-30I	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
12	YAT-YGWA-14S	WG	G			--	--		6	3		3							X	X	X	X	X				pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Mark Chast (Arcadis)	2/8/23	0900	Ryan Williams / Pace	2/8/23	0900	
App III Metals: Boron 6020B, Ca 6010D; App IV 6020B: Zn, Ag, Ni, V	Ryan Williams / Pace	2/9/23	1240				
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event.							
Alkalinity - report total, carbonate, and bicarbonate							

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER:	Mark Chast - Arcadis		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SIGNATURE of SAMPLER: Arcadis Mark Chast	DATE Signed: 2/9/23					

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-202351	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	~~Nicole Droad~~ Connie King
Requested Due Date:	Std TAT	Project Number:		Pace Profile #:	10540

Regulatory Agency: | State / Location: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (Matrix: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	9265421
1	YAT-YGWA-47	WG	G			-	-		6	3		3						X	X	X	X	X			pH:
2	YAT-GWA-2	WG	G			-	-		6	3		3						X	X	X	X	X	X		pH:
3	YAT-YGWA-4I	WG	G			-	-		6	3		3						X	X	X	X	X			pH:
4	YAT-YGWA-5I	WG	G			-	-		6	3		3						X	X	X	X	X			pH:
5	YAT-YGWA-5D	WG	G	2/7/23	1622	-	-		6	3		3						X	X	X	X	X			pH: 6.61 005
6	YAT-YGWA-17S	WG	G			-	-		6	3		3						X	X	X	X	X			pH:
7	YAT-YGWA-18S	WG	G			-	-		6	3		3						X	X	X	X	X			pH:
8	YAT-YGWA-18I	WG	G			-	-		6	3		3						X	X	X	X	X			pH:
9	YAT-YGWA-20S	WG	G	2/7/23	1450	-	-		6	3		3						X	X	X	X	X			pH: 5.63 006
10	YAT-YGWA-21I	WG	G	2/7/23	1248	-	-		6	3		3						X	X	X	X	X			pH: 6.82 007
11	YAT-YGWA-30I	WG	G			-	-		6	3		3						X	X	X	X	X			pH:
12	YAT-YGWA-14S	WG	G			-	-		6	3		3						X	X	X	X	X			pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/8/23	0800		2/8/23	0800	
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V		2/8/23	0900	Ryan Williams / Pace	2/8/23	0960	
App IV Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate	Ryan Williams / Pace	2/8/23	1240				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kim Lapczynski

SIGNATURE of SAMPLER: [signature] DATE Signed: 2/8/23

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

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 1 Of 2

Section A — Required Client Information:

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

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Task No:	YAT-CCR-ASSMT-203351
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C — Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Nicole D'Olieo Bonnie Jang
Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test: App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	926542
1	YAT-YGWA-47	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
2	YAT-GWA-2	WG	G			--	--		6	3		3						X	X	X	X	X	X		pH:
3	YAT-YGWA-4I	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
4	YAT-YGWA-5I	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
5	YAT-YGWA-5D	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
6	YAT-YGWA-17S	WG	G	2/7/23	1116	--	--		6	3		3						X	X	X	X	X			pH: 5.47 006
7	YAT-YGWA-18S	WG	G	2/7	1348	--	--		6	3		3						X	X	X	X	X			pH: 5.03 009
8	YAT-YGWA-18I	WG	G	2/7	1231	--	--		6	3		3						X	X	X	X	X			pH: 6.00 010
9	YAT-YGWA-20S	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
10	YAT-YGWA-21I	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
11	YAT-YGWA-30I	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
12	YAT-YGWA-14S	WG	G			--	--		6	3		3						X	X	X	X	X			pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/8/23	0800	/Arcadis	2/9/23	0800	
App III Metals: Boron 6020B, Ca 6010D; App IV 6020B: Zn, Ag, Ni, V	/Arcadis	2/9/23	0900	Ryan William / Pace	2/9/23	0900	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate	Ryan William / Pace	2/8/23	1240				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jessica Ware - Arcadis

SIGNATURE of SAMPLER: Jessica Ware (Arcadis) DATE Signed: 2/8/23

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

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 2 of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ABSMT-207351	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency	
State / Location	
Georgia	

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	YAT-YGWA-39	WG	G	2/7	1615	--	--		6	3		3						X	X	X	X	X			pH: 5.49 ok
2	YAT-YGWA-40	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
3	YAT-YGWA-1I	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
4	YAT-YGWA-1D	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
5	YAT-YGWA-2I	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
6	YAT-YGWA-3I	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
7	YAT-YGWA-3D	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
8						--	--																		pH:
9						--	--																		pH:
10						--	--																		pH:
11						--	--																		
12						--	--																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica Ware / Arcadis	2/8/23	0800	[illegible] 2/8/23	2/8/23	0800	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	[illegible] / Arcadis	2/8/23	0800	Ryan William / Pace	2/9/23	0900	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate	Ryan William / Pace	2/9/23	1240				

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	(Arcadis) Jessica Ware		
SIGNATURE of SAMPLER:	(Arcadis) [signature]	DATE Signed:	2/8/23

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A — Required Client Information:

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

Section B — Required Project Information:

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

Section C — Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	~~Nicole D'Oleo~~ Brianne Vann
Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

SAMPLE ID
One Character per box. (A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	YAT-YGWA-47	WG	G	2/2/23	1702	--	--		6	3		3							X	X	X	X	X			pH: 5.22 0012
2	YAT-GWA-2	WG	G			--	--		6	3		3							X	X	X	X	X	X		pH:
3	YAT-YGWA-4I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
4	YAT-YGWA-5I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
5	YAT-YGWA-5D	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
6	YAT-YGWA-17S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
7	YAT-YGWA-18S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
8	YAT-YGWA-18I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
9	YAT-YGWA-20S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
10	YAT-YGWA-21I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
11	YAT-YGWA-30I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
12	YAT-YGWA-14S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:

GW 61382

ADDITIONAL COMMENTS

Anions Suite 300.0 (Cl, F, Sulfate)

App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V

App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). **Also add Ca, Na, K for this event.**

Alkalinity - report total, carbonate, and bicarbonate

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature] /Arcadis	2/9/23	0920	Ryan Williams / Pace	2/9/23	0920
Ryan Williams / Pace	2/9/23	1235	[signature]	2/9/23	1235

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chest - Arcadis

SIGNATURE of SAMPLER: [signature] DATE Signed: 2/9/23

SAMPLE CONDITIONS

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

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 2

Section A – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S1	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:	STD TAT	Project Number:		Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

Matrix codes: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	9605382
1	YAT-YGWA-47	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
2	YAT-GWA-2	WG	G			--	--		6	3		3							X	X	X	X	X	X			pH:
3	YAT-YGWA-4I	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
4	YAT-YGWA-5I	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
5	YAT-YGWA-5D	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
6	YAT-YGWA-17S	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
7	YAT-YGWA-18S	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
8	YAT-YGWA-18I	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
9	YAT-YGWA-20S	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
10	YAT-YGWA-21I	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
11	YAT-YGWA-30I	WG	G	2/8	1510	--	--		6	3		3							X	X	X	X	X				pH: 6.43 013
12	YAT-YGWA-14S	WG	G	2/8	1350	--	--		6	3		3							X	X	X	X	X				pH: 5.39 014

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/9/23	830	/AUS	2/9/23	0830	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	/AUS	2/9/23	920	Ryan Williams / Pace	2/9/23	0920	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). **Also add Ca, Na, K for this event.** **Alkalinity - report total, carbonate, and bicarbonate**	Ryan Williams / Pace	2/9/23	1235		2/9/23	1235	

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Jake Swanson					
SIGNATURE of SAMPLER:		DATE Signed: 2/9/23				

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 2 of 2

Section A – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S1	Address:	
Email To:	jaucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:	STD TAT	Project Number:		Pace Profile #:	10840

Requested Agency: | State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	92651382
1	YAT-YGWA-39	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
2	YAT-YGWA-40	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
3	YAT-YGWA-1I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
4	YAT-YGWA-1D	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
5	YAT-YGWA-2I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
6	YAT-YGWA-3I	WG	G	2/8	1000	--	--		6	3		3							X	X	X	X	X			pH: 7.73 OK
7	YAT-YGWA-3D	WG	G	2/8	1140	--	--		6	3		3							X	X	X	X	X			pH: 7.88 OK
8						--	--																			pH:
9						--	--																			pH:
10						--	--																			pH:
11						--	--																			
12						--	--																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/9/23	830	/AWS	2/9/23	0833	
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V	/AWS	2/9/23	0820	Ryan William /Pace	2/9/23	0900	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate	Ryan William /Pace	2/9/23	1235		2/9/23	1235	

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

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

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 1

Section A – Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	laucoker@southernco.com
Phone:	470.620.6176 Fax:
Requested Due Date:	5-10 TAT

Section B – Required Project Information:

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

Section C – Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	~~Nicole O'Dea~~ Ronnie Vans
Pace Profile #:	10840

Regulatory Agency: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 903.1/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	92651382
1	YAT-YGWA-39	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
2	YAT-YGWA-40	WG	G	2/8/23	1202	--	--		6	3		3							X	X	X	X	X			pH: 5.71 OK
3	YAT-YGWA-1I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
4	YAT-YGWA-1D	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
5	YAT-YGWA-2I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
6	YAT-YGWA-3I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
7	YAT-YGWA-3D	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
8						--	--																			pH:
9						--	--																			pH:
10						--	--																			pH:
11						--	--																			
12						--	--																			

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/9/23	0900	/Pace	2/9/23	0900	
App III Metals: Boron 6020B, Ca 6010D; App IV 6020B: Zn, Ag, Ni, V		2/9/23	0920	/Pace	2/9/23	0920	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). **Also add Ca, Na, K for this event.** **Alkalinity - report total, carbonate, and bicarbonate**	/Pace	2/9/23	1235		2/9/23	1235	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: (Arcadis) -

SIGNATURE of SAMPLER: (Arcadis) - DATE Signed: 2/9/23

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : | Of |

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-292351	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	~~Nicole D'Otero~~ Bonnie Vann
Requested Due Date:	Std TAT	Project Number:		Pace Profile #:	10840

Regulatory Agency: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	92651382
1	YAT-YGWA-47	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
2	YAT-GWA-2	WG	G			--	--		6	3		3							X	X	X	X	X	X		pH:
3	YAT-YGWA-4I	WG	G	2/1/23	0955	--	--		6	3		3							X	X	X	X	X			pH: 6.23 018
4	YAT-YGWA-5I	WG	G	2/1/23	1126	--	--		6	3		3							X	X	X	X	X			pH: 5.90 119
5	YAT-YGWA-5D	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
6	YAT-YGWA-17S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
7	YAT-YGWA-18S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
8	YAT-YGWA-18I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
9	YAT-YGWA-20S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
10	YAT-YGWA-21I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
11	YAT-YGWA-30I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
12	YAT-YGWA-14S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:

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

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Kim Lapszynski					
SIGNATURE of SAMPLER:		DATE Signed: 2/10/23				

WO#: 92651382

PM: BV Due Date: 02/22/23

CLIENT: GA-GA Power

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92651382	No qualifiers assigned						
92651421	YAT-GWA-2	SW846 9320	Radium-228	0.749 +/- 0.364	pCi/L	J	Blank contamination
	YAT-YGWA-5D	SW846 9320	Radium-228	1.68 +/- 0.524	pCi/L	J	Blank contamination
	YAT-YGWA-21I	SW846 9320	Radium-228	1.07 +/- 0.475	pCi/L	J	Blank contamination
	YAT-YGWA-39	SW846 9320	Radium-228	0.707 +/- 0.366	pCi/L	J	Blank contamination
	YAT-YGWA-3I	SW846 9320	Radium-228	0.775 +/- 0.381	pCi/L	J	Blank contamination
	YAT-YGWA-3D	SW846 9320	Radium-228	1.72 +/- 0.524	pCi/L	J	Blank contamination

Abbreviations:
pCi/L = picoCuries per liter

Qualifiers:
J = estimated result

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

April 13, 2023

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

RE: Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between February 08, 2023 and February 10, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,

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

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Noelia Gangi, Georgia Power
Geoffrey Gay, ARCADIS - Atlanta
Ben Hodges, Georgia Power-CCR
Kristen Jurinko
Laura Midkiff, Georgia Power
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Michael Smilley, Georgia Power
Becky Steever, Arcadis
Tina Sullivan, ERM
Albert Zumbuhl, Arcadis

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

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Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92651421001	**YAT-YGWA-1I**	Water	02/07/23 11:45	02/08/23 09:00
92651421002	**YAT-YGWA-1D**	Water	02/07/23 13:40	02/08/23 09:00
92651421003	**YAT-YGWA-2I**	Water	02/07/23 15:40	02/08/23 09:00
92651421004	**YAT-GWA-2**	Water	02/07/23 11:48	02/08/23 09:00
92651421005	**YAT-YGWA-5D**	Water	02/07/23 16:22	02/08/23 09:00
92651421006	**YAT-YGWA-20S**	Water	02/07/23 14:50	02/08/23 09:00
92651421007	**YAT-YGWA-21I**	Water	02/07/23 12:48	02/08/23 09:00
92651421008	**YAT-YGWA-17S**	Water	02/07/23 11:16	02/08/23 09:00
92651421009	**YAT-YGWA-18S**	Water	02/07/23 13:48	02/08/23 09:00
92651421010	**YAT-YGWA-18I**	Water	02/07/23 12:31	02/08/23 09:00
92651421011	**YAT-YGWA-39**	Water	02/07/23 16:15	02/08/23 09:00
92651421012	**YAT-YGWA-47**	Water	02/08/23 17:02	02/09/23 12:35
92651421013	**YAT-YGWA-30I**	Water	02/08/23 15:10	02/09/23 12:35
92651421014	**YAT-YGWA-14S**	Water	02/08/23 13:50	02/09/23 12:35
92651421015	**YAT-YGWA-3I**	Water	02/08/23 10:00	02/09/23 12:35
92651421016	**YAT-YGWA-3D**	Water	02/08/23 11:40	02/09/23 12:35
92651421017	**YAT-YGWA-40**	Water	02/08/23 12:02	02/09/23 12:35
92651421018	**YAT-YGWA-4I**	Water	02/09/23 09:55	02/10/23 14:00
92651421019	**YAT-YGWA-5I**	Water	02/09/23 11:26	02/10/23 14:00

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92651421001	**YAT-YGWA-1I**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421002	**YAT-YGWA-1D**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421003	**YAT-YGWA-2I**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421004	**YAT-GWA-2**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421005	**YAT-YGWA-5D**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421006	**YAT-YGWA-20S**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421007	**YAT-YGWA-21I**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421008	**YAT-YGWA-17S**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421009	**YAT-YGWA-18S**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421010	**YAT-YGWA-18I**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421011	**YAT-YGWA-39**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421012	**YAT-YGWA-47**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421013	**YAT-YGWA-30I**	EPA 9315	RMS	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421014	**YAT-YGWA-14S**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421015	**YAT-YGWA-3I**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421016	**YAT-YGWA-3D**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421017	**YAT-YGWA-40**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421018	**YAT-YGWA-4I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421019	**YAT-YGWA-5I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651421001	**YAT-YGWA-1I**					
EPA 9315	Radium-226	0.154 ± 0.213 (0.464) C:91% T:NA	pCi/L		03/02/23 08:32	
EPA 9320	Radium-228	0.507 ± 0.358 (0.686) C:76% T:84%	pCi/L		02/28/23 12:41	
Total Radium Calculation	Total Radium	0.661 ± 0.571 (1.15)	pCi/L		03/02/23 15:06	
92651421002	**YAT-YGWA-1D**					
EPA 9315	Radium-226	0.282 ± 0.218 (0.382) C:89% T:NA	pCi/L		03/02/23 08:32	
EPA 9320	Radium-228	0.638 ± 0.374 (0.676) C:78% T:86%	pCi/L		02/28/23 16:06	
Total Radium Calculation	Total Radium	0.920 ± 0.592 (1.06)	pCi/L		03/02/23 15:06	
92651421003	**YAT-YGWA-2I**					
EPA 9315	Radium-226	0.0443 ± 0.127 (0.314) C:93% T:NA	pCi/L		03/02/23 08:32	
EPA 9320	Radium-228	0.492 ± 0.308 (0.559) C:81% T:89%	pCi/L		02/28/23 16:06	
Total Radium Calculation	Total Radium	0.536 ± 0.435 (0.873)	pCi/L		03/02/23 15:06	
92651421004	**YAT-GWA-2**					
EPA 9315	Radium-226	0.254 ± 0.191 (0.314) C:94% T:NA	pCi/L		03/02/23 08:32	
EPA 9320	Radium-228	0.749 ± 0.364 (0.596) C:81% T:82%	pCi/L		02/28/23 16:06	
Total Radium Calculation	Total Radium	1.00 ± 0.555 (0.910)	pCi/L		03/02/23 15:06	

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SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651421005	**YAT-YGWA-5D**					
EPA 9315	Radium-226	2.31 ± 0.576 (0.258) C:91% T:NA	pCi/L		03/02/23 08:32	
EPA 9320	Radium-228	1.68 ± 0.524 (0.615) C:84% T:81%	pCi/L		02/28/23 16:06	
Total Radium Calculation	Total Radium	3.99 ± 1.10 (0.873)	pCi/L		03/02/23 15:06	
92651421006	**YAT-YGWA-20S**					
EPA 9315	Radium-226	0.123 ± 0.145 (0.290) C:102% T:NA	pCi/L		03/02/23 08:33	
EPA 9320	Radium-228	0.671 ± 0.421 (0.801) C:81% T:87%	pCi/L		02/28/23 16:06	
Total Radium Calculation	Total Radium	0.794 ± 0.566 (1.09)	pCi/L		03/02/23 15:06	
92651421007	**YAT-YGWA-21I**					
EPA 9315	Radium-226	0.457 ± 0.228 (0.252) C:98% T:NA	pCi/L		03/02/23 08:33	
EPA 9320	Radium-228	1.07 ± 0.475 (0.795) C:82% T:81%	pCi/L		02/28/23 16:06	
Total Radium Calculation	Total Radium	1.53 ± 0.703 (1.05)	pCi/L		03/02/23 15:06	
92651421008	**YAT-YGWA-17S**					
EPA 9315	Radium-226	-0.135 ± 0.0961 (0.402) C:94% T:NA	pCi/L		03/02/23 08:33	
EPA 9320	Radium-228	0.367 ± 0.403 (0.846) C:79% T:88%	pCi/L		02/28/23 16:06	
Total Radium Calculation	Total Radium	0.367 ± 0.499 (1.25)	pCi/L		03/02/23 15:06	

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SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651421009	**YAT-YGWA-18S**					
EPA 9315	Radium-226	0.0706 ± 0.136 (0.314) C:93% T:NA	pCi/L		03/02/23 08:33	
EPA 9320	Radium-228	0.585 ± 0.433 (0.859) C:80% T:89%	pCi/L		02/28/23 16:06	
Total Radium Calculation	Total Radium	0.656 ± 0.569 (1.17)	pCi/L		03/02/23 15:06	
92651421010	**YAT-YGWA-18I**					
EPA 9315	Radium-226	0.0453 ± 0.136 (0.339) C:87% T:NA	pCi/L		03/02/23 08:33	
EPA 9320	Radium-228	0.440 ± 0.347 (0.687) C:81% T:91%	pCi/L		02/28/23 16:07	
Total Radium Calculation	Total Radium	0.485 ± 0.483 (1.03)	pCi/L		03/02/23 15:06	
92651421011	**YAT-YGWA-39**					
EPA 9315	Radium-226	0.700 ± 0.299 (0.345) C:94% T:NA	pCi/L		03/02/23 08:33	
EPA 9320	Radium-228	0.707 ± 0.366 (0.629) C:77% T:90%	pCi/L		02/28/23 16:07	
Total Radium Calculation	Total Radium	1.41 ± 0.665 (0.974)	pCi/L		03/02/23 15:06	
92651421012	**YAT-YGWA-47**					
EPA 9315	Radium-226	0.146 ± 0.149 (0.267) C:88% T:NA	pCi/L		03/02/23 08:33	
EPA 9320	Radium-228	0.229 ± 0.339 (0.731) C:71% T:84%	pCi/L		02/28/23 16:07	
Total Radium Calculation	Total Radium	0.375 ± 0.488 (0.998)	pCi/L		03/02/23 15:06	

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SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651421013	**YAT-YGWA-30I**					
EPA 9315	Radium-226	-0.00593 ± 0.0878 (0.274) C:92% T:NA	pCi/L		03/02/23 08:33	
EPA 9320	Radium-228	0.417 ± 0.354 (0.703) C:73% T:89%	pCi/L		02/28/23 16:07	
Total Radium Calculation	Total Radium	0.417 ± 0.442 (0.977)	pCi/L		03/02/23 15:06	
92651421014	**YAT-YGWA-14S**					
EPA 9315	Radium-226	0.0964 ± 0.190 (0.439) C:85% T:NA	pCi/L		03/01/23 20:01	
EPA 9320	Radium-228	0.734 ± 0.414 (0.749) C:79% T:83%	pCi/L		02/28/23 16:07	
Total Radium Calculation	Total Radium	0.830 ± 0.604 (1.19)	pCi/L		03/02/23 15:06	
92651421015	**YAT-YGWA-3I**					
EPA 9315	Radium-226	0.402 ± 0.235 (0.311) C:93% T:NA	pCi/L		03/01/23 20:03	
EPA 9320	Radium-228	0.775 ± 0.381 (0.638) C:75% T:88%	pCi/L		02/28/23 16:07	
Total Radium Calculation	Total Radium	1.18 ± 0.616 (0.949)	pCi/L		03/02/23 15:06	
92651421016	**YAT-YGWA-3D**					
EPA 9315	Radium-226	1.02 ± 0.369 (0.322) C:91% T:NA	pCi/L		03/01/23 20:04	
EPA 9320	Radium-228	1.72 ± 0.524 (0.622) C:78% T:92%	pCi/L		02/28/23 16:07	
Total Radium Calculation	Total Radium	2.74 ± 0.893 (0.944)	pCi/L		03/02/23 15:06	

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SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651421017	**YAT-YGWA-40**					
EPA 9315	Radium-226	0.450 ± 0.200 (0.230) C:98% T:NA	pCi/L		03/03/23 09:54	
EPA 9320	Radium-228	1.11 ± 0.501 (0.817) C:78% T:85%	pCi/L		02/28/23 17:08	
Total Radium Calculation	Total Radium	1.56 ± 0.701 (1.05)	pCi/L		03/06/23 14:37	
92651421018	**YAT-YGWA-4I**					
EPA 9315	Radium-226	0.698 ± 0.253 (0.228) C:93% T:NA	pCi/L		03/03/23 09:54	
EPA 9320	Radium-228	0.419 ± 0.399 (0.815) C:75% T:88%	pCi/L		02/28/23 17:09	
Total Radium Calculation	Total Radium	1.12 ± 0.652 (1.04)	pCi/L		03/06/23 14:37	
92651421019	**YAT-YGWA-5I**					
EPA 9315	Radium-226	0.0549 ± 0.0861 (0.185) C:94% T:NA	pCi/L		03/03/23 09:54	
EPA 9320	Radium-228	0.0266 ± 0.380 (0.881) C:78% T:83%	pCi/L		02/28/23 17:09	
Total Radium Calculation	Total Radium	0.0815 ± 0.466 (1.07)	pCi/L		03/06/23 14:37	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Sample: YAT-YGWA-1I **Lab ID: 92651421001** Collected: 02/07/23 11:45 Received: 02/08/23 09:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.154 ± 0.213 (0.464) C:91% T:NA**	pCi/L	03/02/23 08:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.507 ± 0.358 (0.686) C:76% T:84%**	pCi/L	02/28/23 12:41	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.661 ± 0.571 (1.15)**	pCi/L	03/02/23 15:06	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Sample: YAT-YGWA-1D **Lab ID: 92651421002** Collected: 02/07/23 13:40 Received: 02/08/23 09:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.282 ± 0.218 (0.382) C:89% T:NA**	pCi/L	03/02/23 08:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.638 ± 0.374 (0.676) C:78% T:86%**	pCi/L	02/28/23 16:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.920 ± 0.592 (1.06)**	pCi/L	03/02/23 15:06	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Sample: YAT-YGWA-2I **Lab ID: 92651421003** Collected: 02/07/23 15:40 Received: 02/08/23 09:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0443 ± 0.127 (0.314) C:93% T:NA**	pCi/L	03/02/23 08:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.492 ± 0.308 (0.559) C:81% T:89%**	pCi/L	02/28/23 16:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.536 ± 0.435 (0.873)**	pCi/L	03/02/23 15:06	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Sample: YAT-GWA-2 **Lab ID: 92651421004** Collected: 02/07/23 11:48 Received: 02/08/23 09:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.254 ± 0.191 (0.314) C:94% T:NA**	pCi/L	03/02/23 08:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.749 ± 0.364 (0.596) C:81% T:82%**	pCi/L	02/28/23 16:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.00 ± 0.555 (0.910)**	pCi/L	03/02/23 15:06	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Sample: YAT-YGWA-5D **Lab ID: 92651421005** Collected: 02/07/23 16:22 Received: 02/08/23 09:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**2.31 ± 0.576 (0.258) C:91% T:NA**	pCi/L	03/02/23 08:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.68 ± 0.524 (0.615) C:84% T:81%**	pCi/L	02/28/23 16:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**3.99 ± 1.10 (0.873)**	pCi/L	03/02/23 15:06	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Sample: YAT-YGWA-20S **Lab ID: 92651421006** Collected: 02/07/23 14:50 Received: 02/08/23 09:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.123 ± 0.145 (0.290) C:102% T:NA**	pCi/L	03/02/23 08:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.671 ± 0.421 (0.801) C:81% T:87%**	pCi/L	02/28/23 16:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.794 ± 0.566 (1.09)**	pCi/L	03/02/23 15:06	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Sample: YAT-YGWA-21I **Lab ID: 92651421007** Collected: 02/07/23 12:48 Received: 02/08/23 09:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.457 ± 0.228 (0.252) C:98% T:NA**	pCi/L	03/02/23 08:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.07 ± 0.475 (0.795) C:82% T:81%**	pCi/L	02/28/23 16:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.53 ± 0.703 (1.05)**	pCi/L	03/02/23 15:06	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Sample: YAT-YGWA-17S **Lab ID: 92651421008** Collected: 02/07/23 11:16 Received: 02/08/23 09:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**-0.135 ± 0.0961 (0.402) C:94% T:NA**	pCi/L	03/02/23 08:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.367 ± 0.403 (0.846) C:79% T:88%**	pCi/L	02/28/23 16:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.367 ± 0.499 (1.25)**	pCi/L	03/02/23 15:06	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Sample: YAT-YGWA-18S **Lab ID: 92651421009** Collected: 02/07/23 13:48 Received: 02/08/23 09:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0706 ± 0.136 (0.314) C:93% T:NA**	pCi/L	03/02/23 08:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.585 ± 0.433 (0.859) C:80% T:89%**	pCi/L	02/28/23 16:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.656 ± 0.569 (1.17)**	pCi/L	03/02/23 15:06	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Sample: YAT-YGWA-18I **Lab ID: 92651421010** Collected: 02/07/23 12:31 Received: 02/08/23 09:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0453 ± 0.136 (0.339) C:87% T:NA**	pCi/L	03/02/23 08:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.440 ± 0.347 (0.687) C:81% T:91%**	pCi/L	02/28/23 16:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.485 ± 0.483 (1.03)**	pCi/L	03/02/23 15:06	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Sample: YAT-YGWA-39 **Lab ID: 92651421011** Collected: 02/07/23 16:15 Received: 02/08/23 09:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.700 ± 0.299 (0.345) C:94% T:NA**	pCi/L	03/02/23 08:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.707 ± 0.366 (0.629) C:77% T:90%**	pCi/L	02/28/23 16:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.41 ± 0.665 (0.974)**	pCi/L	03/02/23 15:06	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Sample: YAT-YGWA-47 **Lab ID: 92651421012** Collected: 02/08/23 17:02 Received: 02/09/23 12:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.146 ± 0.149 (0.267) C:88% T:NA**	pCi/L	03/02/23 08:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.229 ± 0.339 (0.731) C:71% T:84%**	pCi/L	02/28/23 16:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.375 ± 0.488 (0.998)**	pCi/L	03/02/23 15:06	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Sample: YAT-YGWA-30I **Lab ID: 92651421013** Collected: 02/08/23 15:10 Received: 02/09/23 12:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**-0.00593 ± 0.0878 (0.274) C:92% T:NA**	pCi/L	03/02/23 08:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.417 ± 0.354 (0.703) C:73% T:89%**	pCi/L	02/28/23 16:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.417 ± 0.442 (0.977)**	pCi/L	03/02/23 15:06	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Sample: YAT-YGWA-14S **Lab ID: 92651421014** Collected: 02/08/23 13:50 Received: 02/09/23 12:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0964 ± 0.190 (0.439) C:85% T:NA**	pCi/L	03/01/23 20:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.734 ± 0.414 (0.749) C:79% T:83%**	pCi/L	02/28/23 16:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.830 ± 0.604 (1.19)**	pCi/L	03/02/23 15:06	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Sample: YAT-YGWA-3I **Lab ID: 92651421015** Collected: 02/08/23 10:00 Received: 02/09/23 12:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.402 ± 0.235 (0.311) C:93% T:NA**	pCi/L	03/01/23 20:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.775 ± 0.381 (0.638) C:75% T:88%**	pCi/L	02/28/23 16:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.18 ± 0.616 (0.949)**	pCi/L	03/02/23 15:06	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Sample: YAT-YGWA-3D **Lab ID: 92651421016** Collected: 02/08/23 11:40 Received: 02/09/23 12:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**1.02 ± 0.369 (0.322) C:91% T:NA**	pCi/L	03/01/23 20:04	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.72 ± 0.524 (0.622) C:78% T:92%**	pCi/L	02/28/23 16:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.74 ± 0.893 (0.944)**	pCi/L	03/02/23 15:06	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Sample: YAT-YGWA-40 **Lab ID: 92651421017** Collected: 02/08/23 12:02 Received: 02/09/23 12:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.450 ± 0.200 (0.230) C:98% T:NA**	pCi/L	03/03/23 09:54	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.11 ± 0.501 (0.817) C:78% T:85%**	pCi/L	02/28/23 17:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.56 ± 0.701 (1.05)**	pCi/L	03/06/23 14:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Sample: YAT-YGWA-4I **Lab ID: 92651421018** Collected: 02/09/23 09:55 Received: 02/10/23 14:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.698 ± 0.253 (0.228) C:93% T:NA**	pCi/L	03/03/23 09:54	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.419 ± 0.399 (0.815) C:75% T:88%**	pCi/L	02/28/23 17:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.12 ± 0.652 (1.04)**	pCi/L	03/06/23 14:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Sample: YAT-YGWA-5I **Lab ID: 92651421019** Collected: 02/09/23 11:26 Received: 02/10/23 14:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0549 ± 0.0861 (0.185) C:94% T:NA**	pCi/L	03/03/23 09:54	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0266 ± 0.380 (0.881) C:78% T:83%**	pCi/L	02/28/23 17:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.0815 ± 0.466 (1.07)**	pCi/L	03/06/23 14:37	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

QC Batch: 567031
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92651421001, 92651421002, 92651421003, 92651421004, 92651421005, 92651421006, 92651421007, 92651421008, 92651421009, 92651421010, 92651421011, 92651421012, 92651421013, 92651421014, 92651421015, 92651421016

METHOD BLANK: 2753389
Matrix: Water
Associated Lab Samples: 92651421001, 92651421002, 92651421003, 92651421004, 92651421005, 92651421006, 92651421007, 92651421008, 92651421009, 92651421010, 92651421011, 92651421012, 92651421013, 92651421014, 92651421015, 92651421016

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0316 ± 0.106 (0.272) C:91% T:NA	pCi/L	03/02/23 10:00	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

QC Batch: 567129
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92651421017, 92651421018, 92651421019

METHOD BLANK: 2754449 Matrix: Water
Associated Lab Samples: 92651421017, 92651421018, 92651421019

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

QC Batch: 567128
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92651421017, 92651421018, 92651421019

METHOD BLANK: 2754448 Matrix: Water
Associated Lab Samples: 92651421017, 92651421018, 92651421019

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

QC Batch: 567032
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92651421001, 92651421002, 92651421003, 92651421004, 92651421005, 92651421006, 92651421007, 92651421008, 92651421009, 92651421010, 92651421011, 92651421012, 92651421013, 92651421014, 92651421015, 92651421016

METHOD BLANK: 2753395
Matrix: Water
Associated Lab Samples: 92651421001, 92651421002, 92651421003, 92651421004, 92651421005, 92651421006, 92651421007, 92651421008, 92651421009, 92651421010, 92651421011, 92651421012, 92651421013, 92651421014, 92651421015, 92651421016

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.623 ± 0.341 (0.611) C:84% T:91%	pCi/L	02/28/23 12:40	

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QUALIFIERS

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92651421001	YAT-YGWA-1I	EPA 9315	567031		
92651421002	YAT-YGWA-1D	EPA 9315	567031		
92651421003	YAT-YGWA-2I	EPA 9315	567031		
92651421004	YAT-GWA-2	EPA 9315	567031		
92651421005	YAT-YGWA-5D	EPA 9315	567031		
92651421006	YAT-YGWA-20S	EPA 9315	567031		
92651421007	YAT-YGWA-21I	EPA 9315	567031		
92651421008	YAT-YGWA-17S	EPA 9315	567031		
92651421009	YAT-YGWA-18S	EPA 9315	567031		
92651421010	YAT-YGWA-18I	EPA 9315	567031		
92651421011	YAT-YGWA-39	EPA 9315	567031		
92651421012	YAT-YGWA-47	EPA 9315	567031		
92651421013	YAT-YGWA-30I	EPA 9315	567031		
92651421014	YAT-YGWA-14S	EPA 9315	567031		
92651421015	YAT-YGWA-3I	EPA 9315	567031		
92651421016	YAT-YGWA-3D	EPA 9315	567031		
92651421017	YAT-YGWA-40	EPA 9315	567128		
92651421018	YAT-YGWA-4I	EPA 9315	567128		
92651421019	YAT-YGWA-5I	EPA 9315	567128		
92651421001	YAT-YGWA-1I	EPA 9320	567032		
92651421002	YAT-YGWA-1D	EPA 9320	567032		
92651421003	YAT-YGWA-2I	EPA 9320	567032		
92651421004	YAT-GWA-2	EPA 9320	567032		
92651421005	YAT-YGWA-5D	EPA 9320	567032		
92651421006	YAT-YGWA-20S	EPA 9320	567032		
92651421007	YAT-YGWA-21I	EPA 9320	567032		
92651421008	YAT-YGWA-17S	EPA 9320	567032		
92651421009	YAT-YGWA-18S	EPA 9320	567032		
92651421010	YAT-YGWA-18I	EPA 9320	567032		
92651421011	YAT-YGWA-39	EPA 9320	567032		
92651421012	YAT-YGWA-47	EPA 9320	567032		
92651421013	YAT-YGWA-30I	EPA 9320	567032		
92651421014	YAT-YGWA-14S	EPA 9320	567032		
92651421015	YAT-YGWA-3I	EPA 9320	567032		
92651421016	YAT-YGWA-3D	EPA 9320	567032		
92651421017	YAT-YGWA-40	EPA 9320	567129		
92651421018	YAT-YGWA-4I	EPA 9320	567129		
92651421019	YAT-YGWA-5I	EPA 9320	567129		
92651421001	YAT-YGWA-1I	Total Radium Calculation	571130		
92651421002	YAT-YGWA-1D	Total Radium Calculation	571130		
92651421003	YAT-YGWA-2I	Total Radium Calculation	571130		
92651421004	YAT-GWA-2	Total Radium Calculation	571130		
92651421005	YAT-YGWA-5D	Total Radium Calculation	571130		
92651421006	YAT-YGWA-20S	Total Radium Calculation	571130		
92651421007	YAT-YGWA-21I	Total Radium Calculation	571130		
92651421008	YAT-YGWA-17S	Total Radium Calculation	571130		
92651421009	YAT-YGWA-18S	Total Radium Calculation	571130		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92651421010	**YAT-YGWA-18I**	Total Radium Calculation	571130		
92651421011	**YAT-YGWA-39**	Total Radium Calculation	571130		
92651421012	**YAT-YGWA-47**	Total Radium Calculation	571130		
92651421013	**YAT-YGWA-30I**	Total Radium Calculation	571130		
92651421014	**YAT-YGWA-14S**	Total Radium Calculation	571130		
92651421015	**YAT-YGWA-3I**	Total Radium Calculation	571130		
92651421016	**YAT-YGWA-3D**	Total Radium Calculation	571130		
92651421017	**YAT-YGWA-40**	Total Radium Calculation	571751		
92651421018	**YAT-YGWA-4I**	Total Radium Calculation	571751		
92651421019	**YAT-YGWA-5I**	Total Radium Calculation	571751		

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without the written consent of Pace Analytical Services, LLC.

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

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mech ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO# : 92651421

92651421

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other: ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Date/Initials Person Examining Contents: 2/8/23 DC

Thermometer: ☑ IR Gun ID: 214

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Cooler Temp: 4.7 Correction Factor: Add/Subtract (°C): +0.1

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp Corrected (°C): 4.8

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, Hg

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-)	AG3S-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 (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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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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A — Required Client Information:

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

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Task No:	YAT-CCR-ASSMT-292381
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C — Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Nicole D'Olera
Pace Profile #:	10840

Regulatory Agency:

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	92651421
1	YAT-YGWA-3S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
2	YAT-YGWA-4D	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
3	YAT-YGWA-1I	WG	G	2/7/23	1145	--	--		6	3		3							X	X	X	X	X			pH: 6.53 DG1
4	YAT-YGWA-1D	WG	G	2/7/23	1340	--	--		6	3		3							X	X	X	X	X			pH: 7.86 DG2
5	YAT-YGWA-2I	WG	G	2/7/23	1540	--	--		6	3		3							X	X	X	X	X			pH: 6.94 DG3
6	YAT-YGWA-3I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
7	YAT-YGWA-3D	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
8						--	--																			pH:
9						--	--																			pH:
10						--	--																			pH:
11						--	--																			pH:
12						--	--																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jake Swanson /Arcadis	2/8/23	0800	[signature] Arcadis	2/8/23	0800	
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V	[signature] /Arcadis	2/8/23	0900	Ryan Williams / Pace	2/9/23	0900	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate	Ryan Williams / Pace	2/9/23	1240				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: (Arcadis) - Jake Swanson

SIGNATURE of SAMPLER: (Arcadis) - [signature] DATE Signed: 2/8/23

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

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

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mec ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO#: 92651421

PM: BV Due Date: 03/01/23

CLIENT: GA-GA Power

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other: ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 2/8/23 DW

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Thermometer: ☑ IR Gun ID: 214

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.7 Correction Factor: Add/Subtract (°C) +0.1

Cooler Temp Corrected (°C): 4.8

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, L-Hg

*Bottom half of box is to list number of bottles
**Check all unpreserved Nitrates for chlorine

Project #

WO# : 92651421

PM: BV Due Date: 03/01/23
CLIENT: GA-GA Power

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

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

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 Of 1

Section A — Required Client Information:

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

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Task No:	YAT-CCR-ASSMT-207351
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C — Invoice Information:

Attention:	Southern Co
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	~~Nicole D'Olso~~ Bonnie Young
Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (use valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RaD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	9265142
1	YAT-YGWA-4I	WG	G			--	--		6	3		3							X	X	X	X	X			
2	YAT-GWA-2	WG	G	2/1/23	1145	--	--		6	3		3							X	X	X	X	X	X		pH: 5.94
3	YAT-YGWA-4I	WG	G			--	--		6	3		3							X	X	X	X	X			pH: 6.04
4	YAT-YGWA-5I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
5	YAT-YGWA-5D	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
6	YAT-YGWA-17S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
7	YAT-YGWA-18S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
8	YAT-YGWA-15I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
9	YAT-YGWA-20S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
10	YAT-YGWA-21I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
11	YAT-YGWA-30I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
12	YAT-YGWA-14S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Mark Chast (Arcadis)	2/8/23	0900	Ryan Williams / Pace	2/8/23	0900	
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V	Ryan Williams / Pace	2/9/23	1240				
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate							

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER:	Mark Chast - Arcadis				
SIGNATURE of SAMPLER: Arcadis		DATE Signed:	2/9/23		

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

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

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO#: 92651421

PM: BV Due Date: 03/01/23

CLIENT: GA-GA Power

Courier: ☐ Commercial ☑ Fed Ex ☐ UPS ☐ USPS ☐ Other: ☐ Client ☑ Pace

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 2/8/23 CW

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Thermometer: ☑ IR Gun ID: 214

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.7 Correction Factor: Add/Subtract (°C) +0.1

Cooler Temp Corrected (°C): 4.8

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, ULHg

**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project # **WO#: 92651421**

PM: BV Due Date: 03/01/23
CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	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)-VOH/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 (NH4)2S04 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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pH Adjustment Log for Preserved Samples

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

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-202351	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	~~Nicole Pfund~~ Connie King
Requested Due Date:	Std TAT	Project Number:		Pace Profile #:	10540

Regulatory Agency: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (Data valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test: App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	92651421
1	YAT-YGWA-47	WG	G			–	–		6	3		3						X	X	X	X	X			pH:
2	YAT-GWA-2	WG	G			–	–		6	3		3						X	X	X	X	X	X		pH:
3	YAT-YGWA-4I	WG	G			–	–		6	3		3						X	X	X	X	X			pH:
4	YAT-YGWA-5I	WG	G			–	–		6	3		3						X	X	X	X	X			pH:
5	YAT-YGWA-5D	WG	G	2/7/23	1622	–	–		6	3		3						X	X	X	X	X			pH: 6.61 005
6	YAT-YGWA-17S	WG	G			–	–		6	3		3						X	X	X	X	X			pH:
7	YAT-YGWA-18S	WG	G			–	–		6	3		3						X	X	X	X	X			pH:
8	YAT-YGWA-18I	WG	G			–	–		6	3		3						X	X	X	X	X			pH:
9	YAT-YGWA-20S	WG	G	2/7/23	1450	–	–		6	3		3						X	X	X	X	X			pH: 5.63 006
10	YAT-YGWA-21I	WG	G	2/7/23	1248	–	–		6	3		3						X	X	X	X	X			pH: 6.82 007
11	YAT-YGWA-30I	WG	G			–	–		6	3		3						X	X	X	X	X			pH:
12	YAT-YGWA-14S	WG	G			–	–		6	3		3						X	X	X	X	X			pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/8/23	0800		2/8/23	0800	
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V		2/8/23	0900	Ryan Williams / Pace	2/8/23	0960	
App IV Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate	Ryan Williams / Pace	2/8/23	1240				

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Kim Lapczynski					
SIGNATURE of SAMPLER:		DATE Signed: 2/8/23				

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other: ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 2/8/23 CM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.7 Correction Factor: Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.8

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ 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 #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U 50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP3R 250 mL Plastic (NH4)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	V5GU-20 mL Scintillation vials (N/A)	DG9U 40 mL Amber Unpreserved vials (N/A)
1		2	1			1																		2	2			
2		2	1			1																		2	2			
3		2	1			1																		2	2			
4		2	1			1																		2	2			
5																								2	2			
6																												
7																												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 2

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	laucoker@southernco.com
Phone:	470.620.6176 Fax:
Requested Due Date:	Std TAT

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Task No:	YAT-CCR-ASSMT-203351
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C — Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Nicole D'Orio Bonnie Jang
Pace Profile #:	10840

Regulatory Agency: —
State / Location: Georgia

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	926542
1	YAT-YGWA-47	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
2	YAT-GWA-2	WG	G			--	--		6	3		3							X	X	X	X	X	X		pH:
3	YAT-YGWA-4I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
4	YAT-YGWA-5I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
5	YAT-YGWA-5D	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
6	YAT-YGWA-17S	WG	G	2/7/23	1116	--	--		6	3		3							X	X	X	X	X			pH: 5.47 006
7	YAT-YGWA-18S	WG	G	2/7	1348	--	--		6	3		3							X	X	X	X	X			pH: 5.03 009
8	YAT-YGWA-18I	WG	G	2/7	1231	--	--		6	3		3							X	X	X	X	X			pH: 6.00 010
9	YAT-YGWA-20S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
10	YAT-YGWA-21I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
11	YAT-YGWA-30I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
12	YAT-YGWA-14S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Anions Suite 300.0 (Cl, F, Sulfate)	[signature] /Arcadis	2/8/23	0800	[signature] /Arcadis	2/9/23	0800
App III Metals: Boron 6020B, Ca 6010D; App IV 6020B: Zn, Ag, Ni, V	[signature] /Arcadis	2/9/23	0900	Ryan William /Pace	2/9/23	0900
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). **Also add Ca, Na, K for this event.** **Alkalinity - report total, carbonate, and bicarbonate**	Ryan William /Pace	2/8/23	1240			

SAMPLER NAME AND SIGNATURE		
PRINT Name of SAMPLER:	Jessica Ware - Arcadis	
SIGNATURE of SAMPLER: [signature] (Arcadis)	DATE Signed:	2/8/23

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately

Page: 2 of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ABSMT-207351	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency	
State / Location	
Georgia	

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	YAT-YGWA-39	WG	G	2/7	1615	--	--		6	3		3						X	X	X	X	X	X			pH: 5.49 0.1
2	YAT-YGWA-40	WG	G			--	--		6	3		3						X	X	X	X	X	X			pH:
3	YAT-YGWA-1I	WG	G			--	--		6	3		3						X	X	X	X	X	X			pH:
4	YAT-YGWA-1D	WG	G			--	--		6	3		3						X	X	X	X	X	X			pH:
5	YAT-YGWA-2I	WG	G			--	--		6	3		3						X	X	X	X	X	X			pH:
6	YAT-YGWA-3I	WG	G			--	--		6	3		3						X	X	X	X	X	X			pH:
7	YAT-YGWA-3D	WG	G			--	--		6	3		3						X	X	X	X	X	X			pH:
8						--	--																			pH:
9						--	--																			pH:
10						--	--																			pH:
11						--	--																			
12						--	--																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica Ware / Arcadis	2/8/23	0800	[illegible] 2/8/23	2/8/23	0800	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	[illegible] / Arcadis	2/8/23	0800	Ryan William / Pace	2/9/23	0900	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate	Ryan William / Pace	2/9/23	1240				

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	(Arcadis) Jessica Ware					
SIGNATURE of SAMPLER:	(Arcadis) [signature]	DATE Signed: 2/8/23				

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Me ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: WO# : 92651382

92651382

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other: ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 2/8/23 DM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Thermometer: ☑ IR Gun ID: 214

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.7 Correction Factor: Add/Subtract (°C) +0.1

Cooler Temp Corrected (°C): 4.8

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

CLIENT NOTIFICATION/RESOLUTION

Lot ID of split containers:

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 # **WO#: 92651382**

PM: BV Due Date: 02/22/23

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	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)	AGGU-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	1			1																			2				
3		2	1			1																			2				
4																									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.

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO# : 92651382**

PM: BV Due Date: 02/22/23

CLIENT: GA-GA Power

Courier: ☐ Commercial ☑ Fed Ex ☐ UPS ☐ USPS ☑ Pace ☐ Other: ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 2/8/23 CM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.7 Correction Factor: Add/Subtract (°C) +0.1

Cooler Temp Corrected (°C): 4.8

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#: 92651382

PM: BV Due Date: 02/22/23

CLIENT: GA-GA Power

Item #	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA 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)
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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 ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt
	Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO# : 92651382**

PM: BV Due Date: 02/22/23

CLIENT: GA-GA Power

Courier: ☐ Commercial ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 2/8/23 CM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.7 Correction Factor: Add/Subtract (°C) +0.1

Cooler Temp Corrected (°C): 4.8

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 #

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)
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

aboratory receiving samples:

Asheville ☐ **Eden** ☐ **Greenwood** ☐ **Huntersville** ☐ **Raleigh** ☐ **Mechanicsville** ☐ **Atlanta** ☑ **Kernersville** ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

Courier: ☐ Commercial ☑ Fed Ex ☐ UPS ☐ USPS ☑ Pace ☐ Client ☐ Other:

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 2/8/23 CM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.7 **Correction Factor:** Add/Subtract (°C) +0.1

Cooler Temp Corrected (°C): 4.8

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 #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	V69T-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-)	V5GU-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 ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

.aboratory receiving samples:

Asheville ☐ **Eden** ☐ **Greenwood** ☐ **Huntersville** ☐ **Raleigh** ☐ **Mer** ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO#: 92651382

PM: BV **Due Date: 02/22/23**

CLIENT: GA-GA Power

Courier: ☐ Commercial ☑ Fed Ex ☐ UPS ☐ USPS ☑ Pace ☐ Client ☐ Other:

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 2/9/23 CAE

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Thermometer: ☑ IR Gun ID: 214

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.1 **Correction Factor:** Add/Subtract (°C) -0.1

Cooler Temp Corrected (°C): 2.0

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#: 92651382

PM: BV Due Date: 02/22/23

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

aboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO# : 92651382**

PM: BV **Due Date: 02/22/23**

CLIENT: GA-GA Power

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 2/9/23 CAR

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: 2c1 **Correction Factor:** Add/Subtract (°C) +01

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2c2

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 v02_Sample Condition Upon Receipt
	Effective Date: 11/14/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project # **WO# : 92651382**

PM: BV Due Date: 02/22/23

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	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)
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: WO#: 92651382

PM: BV Due Date: 02/22/23

CLIENT: GA-GA Power

Courier: ☐ Commercial ☑ Fed Ex ☐ UPS ☐ USPS ☑ Pace ☐ Client ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 2/9/23 CA

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.1 Correction Factor: Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.2

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ 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 #

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)	BP1U	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.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-202391	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Olier Bowers Vinny
Requested Due Date:	Standard TAT	Project Number:		Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	92651382
1	YAT-YGWA-39	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
2	YAT-YGWA-40	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
3	YAT-YGWA-1I	WG	G	2/7/23	1145	--	--		6	3		3							X	X	X	X	X			pH: 6.53 DCL
4	YAT-YGWA-1D	WG	G	2/7/23	1340	--	--		6	3		3							X	X	X	X	X			pH: 7.86 DCL
5	YAT-YGWA-2I	WG	G	2/7/23	1540	--	--		6	3		3							X	X	X	X	X			pH: 6.94 DCL
6	YAT-YGWA-3I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
7	YAT-YGWA-3D	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
8						--	--																			pH:
9						--	--																			pH:
10						--	--																			pH:
11						--	--																			
12						--	--																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jake Swanson (Arcadis	2/8/23	0800	[signature] Arc	2/8/23	0800	
App III Metals: Boron 6020B, Ca 6010D; App VIII 6020B: Zn, Ag, Ni, V	[signature] /Arc	2/8/23	0900	Ryan Williams / Pace	2/9/23	0900	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A; Mercury (Hg). **Also add Ca, Na, K for this event.** **Alkalinity - report total, carbonate, and bicarbonate**	Ryan Williams / Pace	2/9/23	1240				

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	(Arcadis) - Jake Swanson					
SIGNATURE of SAMPLER:	(Arcadis) - [signature]	DATE Signed: 2/8/23				

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 1

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	laucoker@southernco.com
Phone:	470.620.6176 Fax
Requested Due Date:	Standard TAT

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Task No:	YAT-CCR-ASSMT-2023S1
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C — Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	~~Nicole D'Oleo~~ Bonnie
Pace Profile #:	10840 Vary

Regulatory Agency: —

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	YAT-YGWA-47	WG	G			--	--		6	3		3						X	X	X	X	X			pH: 5.94
2	YAT-GWA-2	WG	G	2/1/23	1148	--	--		6	3		3						X	X	X	X	X	X		pH: 6.24
3	YAT-YGWA-4I	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
4	YAT-YGWA-5I	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
5	YAT-YGWA-5D	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
6	YAT-YGWA-17S	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
7	YAT-YGWA-18S	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
8	YAT-YGWA-18I	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
9	YAT-YGWA-20S	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
10	YAT-YGWA-21I	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
11	YAT-YGWA-30I	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
12	YAT-YGWA-14S	WG	G			--	--		6	3		3						X	X	X	X	X			pH:

9226251382

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Mark Chastain (Arcadis)	2/3/23	0900	Ryan Williams / Pace	2/3/23	0900	
App III Metals: Boron 6020B, Ca 6010D; App IV 6020B: Zn, Ag, Ni, V	Ryan Williams / Pace	2/4/23	1240				
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). **Also add Ca, Na, K for this event.** **Alkalinity - report total, carbonate, and bicarbonate**							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chastain - Arcadis

SIGNATURE of SAMPLER: Arcadis Mark Chastain DATE Signed: 2/3/23

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-202351	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	~~Nicole D'Orio~~ Connie Young
Requested Due Date:	Std TAT	Project Number:		Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N	Analyses Test: App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	92651382
1	YAT-YGWA-47	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
2	YAT-GWA-2	WG	G			--	--		6	3		3							X	X	X	X	X	X		pH:
3	YAT-YGWA-4I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
4	YAT-YGWA-5I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
5	YAT-YGWA-5D	WG	G	2/7/23	1622	--	--		6	3		3							X	X	X	X	X			pH: 6.64 005
6	YAT-YGWA-17S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
7	YAT-YGWA-18S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
8	YAT-YGWA-18I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
9	YAT-YGWA-20S	WG	G	2/7/23	1450	--	--		6	3		3							X	X	X	X	X			pH: 5.63 006
10	YAT-YGWA-21I	WG	G	2/7/23	1248	--	--		6	3		3							X	X	X	X	X			pH: 6.82 007
11	YAT-YGWA-30I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
12	YAT-YGWA-14S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Kim Lapszynski /Arcadis	2/8/23	0800		2/8/23	0800	
App III Metals: Boron 6020B, Ca 6010D; App III 6020B: Zn, Ag, Ni, V	Kim Lapszynski	2/8/23	0900	Ryan Williams / Pace	2/8/23	0906	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate	Ryan Williams / Pace	2/8/23	1240				

SAMPLER NAME AND SIGNATURE				TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Kim Lapszynski						
SIGNATURE of SAMPLER:		DATE Signed:	2/8/23				

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 2

Section A – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-202351	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager: ~~Nicole D'Oleo~~ Bonnie Wang	
Requested Due Date:	Std TAT	Project Number:		Pace Profile #:	10840

Regulatory Agency: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / H (gypsum only)	Residual Chlorine (Y/N)	92651342
1	YAT-YGWA-47	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
2	YAT-GWA-2	WG	G			--	--		6	3		3							X	X	X	X	X	X		pH:
3	YAT-YGWA-4I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
4	YAT-YGWA-5I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
5	YAT-YGWA-5D	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
6	YAT-YGWA-17S	WG	G	2/7/23	1116	--	--		6	3		3							X	X	X	X	X			pH: 5.47 DDB
7	YAT-YGWA-18S	WG	G	2/7	1348	--	--		6	3		3							X	X	X	X	X			pH: 5.03 DDB
8	YAT-YGWA-18I	WG	G	2/7	1231	--	--		6	3		3							X	X	X	X	X			pH: 6.00 DW
9	YAT-YGWA-20S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
10	YAT-YGWA-21I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
11	YAT-YGWA-30I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
12	YAT-YGWA-14S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica Ware /Arcadis	2/8/23	0800	Ryan William /Pace	2/9/23	0805	
App III Metals: Boron 6020B, Ca 6010D; App IV 6020B: Zn, Ag, Ni, V	Ryan William /Pace	2/9/23	0900	Ryan William /Pace	2/9/23	0906	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). **Also add Ca, Na, K for this event.** **Alkalinity - report total, carbonate, and bicarbonate**	Ryan William /Pace	2/8/23	1240				

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Jessica Ware - Arcadis					
SIGNATURE of SAMPLER:	Jessica Ware (Arcadis)	DATE Signed: 2/8/23				

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 2 of 2

Section A – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S1	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	9265/382
1	YAT-YGWA-39	WG	G	2/7	1615	--	--		6	3		3							X	X	X	X	X			pH: 5.49 ON
2	YAT-YGWA-40	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
3	YAT-YGWA-1I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
4	YAT-YGWA-1D	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
5	YAT-YGWA-2I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
6	YAT-YGWA-3I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
7	YAT-YGWA-3D	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
8						--	--																			pH:
9						--	--																			pH:
10						--	--																			pH:
11						--	--																			
12						--	--																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica Ware /Arcadis	2/8/23	0806	[signature] 2/8/23	2/8/23	0800	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	[signature] /Arc	2/8/23	0800	Ryan William / Pace	2/9/23	0900	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). **Also add Ca, Na, K for this event.** **Alkalinity - report total, carbonate, and bicarbonate**	Ryan William / Pace	2/8/23	1240				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: (Arcadis) Jessica Ware

SIGNATURE of SAMPLER: (Arcadis) [signature] DATE Signed: 2/8/23

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 1

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	laucoker@southernco.com
Phone:	470.620.6176 Fax
Requested Due Date:	STD TAT

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Task No:	YAT-CCR-ASSMT-2023S1
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C — Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	~~Nicole D'Oleo~~ Brianne Vann
Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	YAT-YGWA-47	WG	G	2/2/23	1702	--	--		6	3		3							X	X	X	X	X			pH: 5.22 0012
2	YAT-GWA-2	WG	G			--	--		6	3		3							X	X	X	X	X	X		pH:
3	YAT-YGWA-4I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
4	YAT-YGWA-5I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
5	YAT-YGWA-5D	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
6	YAT-YGWA-17S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
7	YAT-YGWA-18S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
8	YAT-YGWA-18I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
9	YAT-YGWA-20S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
10	YAT-YGWA-21I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
11	YAT-YGWA-30I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
12	YAT-YGWA-14S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:

Residual Chlorine (Y/N): GW61382

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	[signature] /Arcadis	2/9/23	0920	Ryan Williams / Pace	2/9/23	0920	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	Ryan Williams / Pace	2/9/23	1235	[signature]	2/9/23	1235	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Crest - Arcadis

SIGNATURE of SAMPLER: [signature] DATE Signed: 2/9/23

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 2

Section A – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S1	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:	STD TAT	Project Number:		Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	9605382
1	YAT-YGWA-47	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
2	YAT-GWA-2	WG	G			--	--		6	3		3							X	X	X	X	X	X		pH:
3	YAT-YGWA-4I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
4	YAT-YGWA-5I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
5	YAT-YGWA-5D	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
6	YAT-YGWA-17S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
7	YAT-YGWA-18S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
8	YAT-YGWA-18I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
9	YAT-YGWA-20S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
10	YAT-YGWA-21I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
11	YAT-YGWA-30I	WG	G	2/8	1510	--	--		6	3		3							X	X	X	X	X			pH: 6.43 013
12	YAT-YGWA-14S	WG	G	2/8	1350	--	--		6	3		3							X	X	X	X	X			pH: 5.39 014

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/9/23	830	/AUS	2/9/23	0830	
App III Metals: Boron 6020B, Ca 6010D; App VI 6020B: Zn, Ag, Ni, V	/AUS	2/9/23	920	Ryan Williams / Pace	2/9/23	0920	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). **Also add Ca, Na, K for this event.** **Alkalinity - report total, carbonate, and bicarbonate**	Ryan Williams / Pace	2/9/23	1235		2/9/23	1235	

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Jake Swanson					
SIGNATURE of SAMPLER:		DATE Signed: 2/9/23				

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 2 of 2

Section A – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S1	Address:	
Email To:	jaucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:	STD TAT	Project Number:		Pace Profile #:	10840

Requested Agency: | State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)				Residual Chlorine (Y/N)	12651382
1	YAT-YGWA-39	WG	G			--	--		6	3		3							X	X	X	X	X					pH:
2	YAT-YGWA-40	WG	G			--	--		6	3		3							X	X	X	X	X					pH:
3	YAT-YGWA-1I	WG	G			--	--		6	3		3							X	X	X	X	X					pH:
4	YAT-YGWA-1D	WG	G			--	--		6	3		3							X	X	X	X	X					pH:
5	YAT-YGWA-2I	WG	G			--	--		6	3		3							X	X	X	X	X					pH:
6	YAT-YGWA-3I	WG	G	2/8	1000	--	--		6	3		3							X	X	X	X	X					pH: 7.73 OK
7	YAT-YGWA-3D	WG	G	2/8	1140	--	--		6	3		3							X	X	X	X	X					pH: 7.88 OK
8						--	--																					pH:
9						--	--																					pH:
10						--	--																					pH:
11						--	--																					
12						--	--																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/4/23	830	/AWS	2/9/23	0837	
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V	/AWS	2/9/23	0820	Ryan William /Pace	2/9/23	0900	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). **Also add Ca, Na, K for this event.** **Alkalinity - report total, carbonate, and bicarbonate**	Ryan William /Pace	2/9/23	1235		2/9/23	1235	

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	(Arcadis) -	Jake Swanson	
SIGNATURE of SAMPLER:	(Arcadis) -		DATE Signed: 2/4/23

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 1

Section A – Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	laucoker@southernco.com
Phone:	470.620.6176 Fax:
Requested Due Date:	5-10 TAT

Section B – Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Task No:	YAT-CCR-ASSMT-2023S1
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C – Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	~~Nicole O'Dea~~ Romaine Vans
Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 903.1/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	92651382
1	YAT-YGWA-39	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
2	YAT-YGWA-40	WG	G	2/8/23	1202	--	--		6	3		3							X	X	X	X	X			pH: 5.71 OK
3	YAT-YGWA-1I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
4	YAT-YGWA-1D	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
5	YAT-YGWA-2I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
6	YAT-YGWA-3I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
7	YAT-YGWA-3D	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
8						--	--																			pH:
9						--	--																			pH:
10						--	--																			pH:
11						--	--																			
12						--	--																			

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/9/23	0900	/Pace	2/9/23	0900	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	/Arcadis	2/9/23	0920	/Pace	2/9/23	0920	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). **Also add Ca, Na, K for this event.** **Alkalinity - report total, carbonate, and bicarbonate**	/Pace	2/9/23	1235	/Pace	2/9/23	1235	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: (Arcadis) -

SIGNATURE of SAMPLER: (Arcadis) - DATE Signed: 2/9/23

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : | Of |

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-292351	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	~~Nicole D'Otero~~ Bonnie Vann
Requested Due Date:	Std TAT	Project Number:		Pace Profile #:	10840

Regulatory Agency: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	92651382
1	YAT-YGWA-47	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
2	YAT-GWA-2	WG	G			--	--		6	3		3							X	X	X	X	X	X		pH:
3	YAT-YGWA-4I	WG	G	2/1/23	0955	--	--		6	3		3							X	X	X	X	X			pH: 6.23 018
4	YAT-YGWA-5I	WG	G	2/1/23	1126	--	--		6	3		3							X	X	X	X	X			pH: 5.90 119
5	YAT-YGWA-5D	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
6	YAT-YGWA-17S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
7	YAT-YGWA-18S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
8	YAT-YGWA-18I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
9	YAT-YGWA-20S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
10	YAT-YGWA-21I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
11	YAT-YGWA-30I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
12	YAT-YGWA-14S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Kim Lapszynski /Arcadis	2/10/23	1200	/Arcadis	2/10/23	1200	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V							
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate	/Arcadis	2/10/23	1400		2/10/23	1400	

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Kim Lapszynski					
SIGNATURE of SAMPLER:		DATE Signed: 2/10/23				

WO#: 92651382

PM: BV Due Date: 02/22/23

CLIENT: GA-GA Power

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test:	Ra-226
Analyst:	RMS
Date:	2/23/2023
Worklist:	71466
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2753389
MB concentration:	0.032
M/B 2 Sigma CSU:	0.106
MB MDC:	0.272
MB Numerical Performance Indicator:	0.58
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS71466	LCSD71466
Count Date:	3/1/2023	3/1/2023
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.019	24.019
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.501	0.500
Target Conc. (pCi/L, g, F):	4.795	4.807
Uncertainty (Calculated):	0.058	0.058
Result (pCi/L, g, F):	4.037	3.903
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.868	0.847
Numerical Performance Indicator:	-1.71	-2.09
Percent Recovery:	84.20%	81.19%
Status vs Numerical Indicator:	Pass	Warning
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS71466	92650189021
Duplicate Sample I.D.	LCSD71466	92650189021DUP
Sample Result (pCi/L, g, F):	4.037	0.272
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.868	0.190
Sample Duplicate Result (pCi/L, g, F):	3.903	0.161
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.847	0.314
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.217	0.592
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	3.64%	51.29%
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:

3/20/23

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	JJS1
Date:	2/24/2023
Worklist:	71467
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2753395
MB concentration:	0.623
M/B 2 Sigma CSU:	0.341
MB MDC:	0.611
MB Numerical Performance Indicator:	3.59
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS71467	LCSD71467
Count Date:	2/28/2023	2/28/2023
Spike I.D.:	22-040	22-040
Decay Corrected Spike Concentration (pCi/mL):	33.400	33.400
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.803	0.802
Target Conc. (pCi/L, g, F):	4.159	4.166
Uncertainty (Calculated):	0.204	0.204
Result (pCi/L, g, F):	3.818	3.501
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.858	0.804
Numerical Performance Indicator:	-0.76	-1.57
Percent Recovery:	91.79%	84.03%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

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.:	LCS71467	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD71467	
Sample Result (pCi/L, g, F):	3.818	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.858	
Sample Duplicate Result (pCi/L, g, F):	3.501	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.804	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.528	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	8.82%	
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:
*The method blank result is below the reporting limit for this analysis and is acceptable.

LAL 3/1/23

3/1/23

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:	2/24/2023
Worklist:	71482
Matrix:	WT

Method Blank Assessment	
MB Sample ID	2754449
MB concentration:	0.353
M/B 2 Sigma CSU:	0.207
MB MDC:	0.369
MB Numerical Performance Indicator:	3.34
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS71482	LCSD71482
Count Date:	2/28/2023	2/28/2023
Spike I.D.:	22-040	22-040
Decay Corrected Spike Concentration (pCi/mL):	33.398	33.398
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.801	0.800
Target Conc. (pCi/L, g, F):	4.172	4.173
Uncertainty (Calculated):	0.204	0.204
Result (pCi/L, g, F):	3.338	3.085
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.886	0.814
Numerical Performance Indicator:	-1.80	-2.54
Percent Recovery:	80.01%	73.93%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

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.:	LCS71482	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD71482	
Sample Result (pCi/L, g, F):	3.338	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.886	
Sample Duplicate Result (pCi/L, g, F):	3.085	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.814	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.413	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	7.91%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

~~*If the lowest activity sample in this batch is greater than ten times the blank value, the blank is acceptable; otherwise this batch must be re-prepped.~~ MB activity < MDC - pass

VAL 3/6/23

3/6/23

3/6/23

Quality Control Sample Performance Assessment

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Test:	Ra-226
Analyst:	SLC
Date:	2/23/2023
Worklist:	71481
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2754448
MB concentration:	0.113
M/B 2 Sigma CSU:	0.105
MB MDC:	0.185
MB Numerical Performance Indicator:	2.11
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS71481	LCSD71481
Count Date:	3/3/2023	3/3/2023
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.019	24.019
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.500	0.507
Target Conc. (pCi/L, g, F):	4.800	4.740
Uncertainty (Calculated):	0.058	0.057
Result (pCi/L, g, F):	4.170	5.261
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.819	0.970
Numerical Performance Indicator:	-1.51	1.05
Percent Recovery:	86.87%	111.01%
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.:	LCS71481	92651421017
Duplicate Sample I.D.	LCSD71481	92651421017DUP
Sample Result (pCi/L, g, F):	4.170	0.450
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.819	0.200
Sample Duplicate Result (pCi/L, g, F):	5.261	0.232
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.970	0.144
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-1.685	1.739
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	24.39%	64.12%
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:

LAM 3/3/23

LAM3/3/23

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

March 21, 2023

Ms. Lauren Petty
Southern Company
42 Inverness Center Parkway
Birmingham, AL 35242

RE: Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between February 08, 2023 and February 10, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Noelia Gangi, Georgia Power
Geoffrey Gay, ARCADIS - Atlanta
Ben Hodges, Georgia Power-CCR
Kristen Jurinko
Laura Midkiff, Georgia Power
Alex Simpson, Arcadis
Michael Smilley, Georgia Power
Becky Steever, Arcadis
Tina Sullivan, ERM
Jessica Ware, ARCADIS - Atlanta
Albert Zumbuhl, Arcadis

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Pace Analytical Services Charlotte
South Carolina Laboratory ID: 99006
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001

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SAMPLE SUMMARY

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92651382001	**YAT-YGWA-1I**	Water	02/07/23 11:45	02/08/23 09:00
92651382002	**YAT-YGWA-1D**	Water	02/07/23 13:40	02/08/23 09:00
92651382003	**YAT-YGWA-2I**	Water	02/07/23 15:40	02/08/23 09:00
92651382004	**YAT-GWA-2**	Water	02/07/23 11:48	02/08/23 09:00
92651382005	**YAT-YGWA-5D**	Water	02/07/23 16:22	02/08/23 09:00
92651382006	**YAT-YGWA-20S**	Water	02/07/23 14:50	02/08/23 09:00
92651382007	**YAT-YGWA-21I**	Water	02/07/23 12:48	02/08/23 09:00
92651382008	**YAT-YGWA-17S**	Water	02/07/23 11:16	02/08/23 09:00
92651382009	**YAT-YGWA-18S**	Water	02/07/23 13:48	02/08/23 09:00
92651382010	**YAT-YGWA-18I**	Water	02/07/23 12:31	02/08/23 09:00
92651382011	**YAT-YGWA-39**	Water	02/07/23 16:15	02/08/23 09:00
92651382012	**YAT-YGWA-47**	Water	02/08/23 17:02	02/09/23 12:35
92651382013	**YAT-YGWA-30I**	Water	02/08/23 15:10	02/09/23 12:35
92651382014	**YAT-YGWA-14S**	Water	02/08/23 13:50	02/09/23 12:35
92651382015	**YAT-YGWA-3I**	Water	02/08/23 10:00	02/09/23 12:35
92651382016	**YAT-YGWA-3D**	Water	02/08/23 11:40	02/09/23 12:35
92651382017	**YAT-YGWA-40**	Water	02/08/23 12:02	02/09/23 12:35
92651382018	**YAT-YGWA-4I**	Water	02/09/23 09:55	02/10/23 14:00
92651382019	**YAT-YGWA-5I**	Water	02/09/23 11:26	02/10/23 14:00

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SAMPLE ANALYTE COUNT

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92651382001	**YAT-YGWA-1I**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651382002	**YAT-YGWA-1D**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651382003	**YAT-YGWA-2I**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651382004	**YAT-GWA-2**	EPA 6010D	MS	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
92651382005	**YAT-YGWA-5D**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651382006	**YAT-YGWA-20S**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651382007	**YAT-YGWA-21I**	EPA 6010D	MS	4

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		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
92651382008	**YAT-YGWA-17S**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651382009	**YAT-YGWA-18S**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651382010	**YAT-YGWA-18I**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651382011	**YAT-YGWA-39**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651382012	**YAT-YGWA-47**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651382013	**YAT-YGWA-30I**	EPA 6010D	MS	4
		EPA 6020B	CW1	13

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SAMPLE ANALYTE COUNT

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

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
92651382014	**YAT-YGWA-14S**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651382015	**YAT-YGWA-3I**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651382016	**YAT-YGWA-3D**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651382017	**YAT-YGWA-40**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651382018	**YAT-YGWA-4I**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651382019	**YAT-YGWA-5I**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3

PASI-A = Pace Analytical Services - Asheville
PASI-C = Pace Analytical Services - Charlotte
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

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Peachtree Corners, GA 30092
(770)734-4200

SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651382001	**YAT-YGWA-1I**					
	Performed by	Client			03/03/23 10:59	
	Collected By	Jake Swanson			03/03/23 10:59	
	Collected Date	02/07/23			03/03/23 10:59	
	Collected Time	11:45			03/03/23 10:59	
	pH	6.53	Std. Units		03/03/23 10:59	
EPA 6010D	Potassium	2.0	mg/L	0.20	02/21/23 16:05	
EPA 6010D	Sodium	5.6	mg/L	1.0	02/21/23 16:05	
EPA 6010D	Calcium	2.2	mg/L	1.0	02/21/23 16:05	
EPA 6010D	Magnesium	1.5	mg/L	0.050	02/21/23 16:05	
EPA 6020B	Barium	0.21	mg/L	0.0050	02/21/23 17:54	
EPA 6020B	Beryllium	0.00054	mg/L	0.00050	02/21/23 17:54	
EPA 6020B	Chromium	0.0013J	mg/L	0.0050	02/21/23 17:54	
EPA 6020B	Cobalt	0.0048J	mg/L	0.0050	02/21/23 17:54	
EPA 6020B	Lithium	0.0029J	mg/L	0.030	02/21/23 17:54	
SM 2540C-2015	Total Dissolved Solids	121	mg/L	25.0	02/10/23 20:18	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	20.4	mg/L	5.0	02/15/23 17:28	
SM 2320B-2011	Alkalinity, Total as CaCO3	20.4	mg/L	5.0	02/15/23 17:28	
EPA 300.0 Rev 2.1 1993	Chloride	1.5	mg/L	1.0	02/10/23 21:29	
EPA 300.0 Rev 2.1 1993	Fluoride	0.071J	mg/L	0.10	02/10/23 21:29	
EPA 300.0 Rev 2.1 1993	Sulfate	6.6	mg/L	1.0	02/10/23 21:29	
92651382002	**YAT-YGWA-1D**					
	Performed by	Client			03/03/23 11:00	
	Collected By	Jake Swanson			03/03/23 11:00	
	Collected Date	02/07/23			03/03/23 11:00	
	Collected Time	13:40			03/03/23 11:00	
	pH	7.86	Std. Units		03/03/23 11:00	
EPA 6010D	Potassium	4.8	mg/L	0.20	02/21/23 16:10	
EPA 6010D	Sodium	11.5	mg/L	1.0	02/21/23 16:10	
EPA 6010D	Calcium	15.0	mg/L	1.0	02/21/23 16:10	
EPA 6010D	Magnesium	1.9	mg/L	0.050	02/21/23 16:10	
EPA 6020B	Barium	0.14	mg/L	0.0050	02/21/23 18:00	
EPA 6020B	Beryllium	0.0011	mg/L	0.00050	02/21/23 18:00	
EPA 6020B	Cobalt	0.00097J	mg/L	0.0050	02/21/23 18:00	
EPA 6020B	Lithium	0.0060J	mg/L	0.030	02/21/23 18:00	
SM 2540C-2015	Total Dissolved Solids	131	mg/L	25.0	02/10/23 20:18	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	65.4	mg/L	5.0	02/15/23 17:46	
SM 2320B-2011	Alkalinity, Total as CaCO3	65.4	mg/L	5.0	02/15/23 17:46	
EPA 300.0 Rev 2.1 1993	Chloride	1.3	mg/L	1.0	02/10/23 21:44	
EPA 300.0 Rev 2.1 1993	Fluoride	0.093J	mg/L	0.10	02/10/23 21:44	
EPA 300.0 Rev 2.1 1993	Sulfate	10.6	mg/L	1.0	02/10/23 21:44	
92651382003	**YAT-YGWA-2I**					
	Performed by	Client			03/03/23 11:00	
	Collected By	Jake Swanson			03/03/23 11:00	
	Collected Date	02/07/23			03/03/23 11:00	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651382003	**YAT-YGWA-2I**					
	Collected Time	15:40			03/03/23 11:00	
	pH	6.94	Std. Units		03/03/23 11:00	
EPA 6010D	Potassium	5.1	mg/L	0.20	02/21/23 16:15	
EPA 6010D	Sodium	9.0	mg/L	1.0	02/21/23 16:15	M1
EPA 6010D	Calcium	25.6	mg/L	1.0	02/21/23 16:15	M1
EPA 6010D	Magnesium	4.1	mg/L	0.050	02/21/23 16:15	
EPA 6020B	Barium	0.0026J	mg/L	0.0050	02/21/23 18:06	
EPA 6020B	Lithium	0.0047J	mg/L	0.030	02/21/23 18:06	
EPA 6020B	Molybdenum	0.0061J	mg/L	0.010	02/21/23 18:06	
SM 2540C-2015	Total Dissolved Solids	159	mg/L	25.0	02/10/23 20:18	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	87.6	mg/L	5.0	02/15/23 18:36	
SM 2320B-2011	Alkalinity, Total as CaCO3	87.6	mg/L	5.0	02/15/23 18:36	
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	02/10/23 21:59	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	02/10/23 21:59	
EPA 300.0 Rev 2.1 1993	Sulfate	17.8	mg/L	1.0	02/10/23 21:59	
92651382004	**YAT-GWA-2**					
	Performed by	Client			03/03/23 11:01	
	Collected By	Jake Swanson			03/03/23 11:01	
	Collected Date	02/07/23			03/03/23 11:01	
	Collected Time	11:48			03/03/23 11:01	
	pH	5.94	Std. Units		03/03/23 11:01	
EPA 6010D	Potassium	9.5	mg/L	0.20	02/21/23 17:00	
EPA 6010D	Sodium	8.1	mg/L	1.0	02/21/23 17:00	
EPA 6010D	Calcium	22.3	mg/L	1.0	02/21/23 17:00	
EPA 6010D	Magnesium	19.3	mg/L	0.050	02/21/23 17:00	
EPA 6020B	Barium	0.034	mg/L	0.0050	02/21/23 18:12	
EPA 6020B	Cadmium	0.00012J	mg/L	0.00050	02/21/23 18:12	
EPA 6020B	Cobalt	0.034	mg/L	0.0050	02/21/23 18:12	
EPA 6020B	Lithium	0.0022J	mg/L	0.030	02/21/23 18:12	
EPA 6020B	Nickel	0.0096	mg/L	0.0050	02/21/23 18:12	
EPA 6020B	Zinc	0.0072J	mg/L	0.010	02/21/23 18:12	
EPA 7470A	Mercury	0.00013J	mg/L	0.00020	02/24/23 12:03	
SM 2540C-2015	Total Dissolved Solids	207	mg/L	25.0	02/10/23 20:18	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	62.4	mg/L	5.0	02/15/23 18:45	
SM 2320B-2011	Alkalinity, Total as CaCO3	62.4	mg/L	5.0	02/15/23 18:45	
EPA 300.0 Rev 2.1 1993	Chloride	6.1	mg/L	1.0	02/10/23 22:14	
EPA 300.0 Rev 2.1 1993	Fluoride	0.095J	mg/L	0.10	02/10/23 22:14	
EPA 300.0 Rev 2.1 1993	Sulfate	82.4	mg/L	1.0	02/10/23 22:14	
92651382005	**YAT-YGWA-5D**					
	Performed by	Client			03/03/23 11:05	
	Collected By	Jake Swanson			03/03/23 11:05	
	Collected Date	02/07/23			03/03/23 11:05	
	Collected Time	16:22			03/03/23 11:05	
	pH	6.64	Std. Units		03/03/23 11:05	
EPA 6010D	Potassium	3.7	mg/L	0.20	02/21/23 17:05	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651382005	**YAT-YGWA-5D**					
EPA 6010D	Sodium	9.7	mg/L	1.0	02/21/23 17:05	
EPA 6010D	Calcium	26.6	mg/L	1.0	02/21/23 17:05	
EPA 6010D	Magnesium	4.6	mg/L	0.050	02/21/23 17:05	
EPA 6020B	Arsenic	0.0030J	mg/L	0.0050	02/21/23 18:18	
EPA 6020B	Barium	0.0075	mg/L	0.0050	02/21/23 18:18	
EPA 6020B	Lithium	0.0059J	mg/L	0.030	02/21/23 18:18	
EPA 6020B	Molybdenum	0.00095J	mg/L	0.010	02/21/23 18:18	
SM 2540C-2015	Total Dissolved Solids	180	mg/L	25.0	02/10/23 20:19	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	96.5	mg/L	5.0	02/15/23 18:52	
SM 2320B-2011	Alkalinity, Total as CaCO3	96.5	mg/L	5.0	02/15/23 18:52	
EPA 300.0 Rev 2.1 1993	Chloride	3.3	mg/L	1.0	02/10/23 22:29	
EPA 300.0 Rev 2.1 1993	Fluoride	0.082J	mg/L	0.10	02/10/23 22:29	
EPA 300.0 Rev 2.1 1993	Sulfate	5.2	mg/L	1.0	02/10/23 22:29	
92651382006	**YAT-YGWA-20S**					
	Performed by	Client			03/03/23 11:05	
	Collected By	Jake Swanson			03/03/23 11:05	
	Collected Date	02/07/23			03/03/23 11:05	
	Collected Time	14:50			03/03/23 11:05	
	pH	5.63	Std. Units		03/03/23 11:05	
EPA 6010D	Potassium	0.55	mg/L	0.20	02/21/23 17:10	
EPA 6010D	Sodium	8.7	mg/L	1.0	02/21/23 17:10	
EPA 6010D	Calcium	2.4	mg/L	1.0	02/21/23 17:10	
EPA 6010D	Magnesium	0.58	mg/L	0.050	02/21/23 17:10	
EPA 6020B	Barium	0.014	mg/L	0.0050	02/21/23 18:24	
EPA 6020B	Beryllium	0.000074J	mg/L	0.00050	02/21/23 18:24	
EPA 7470A	Mercury	0.00015J	mg/L	0.00020	02/24/23 12:08	
SM 2540C-2015	Total Dissolved Solids	89.0	mg/L	25.0	02/10/23 20:19	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	23.3	mg/L	5.0	02/15/23 19:00	
SM 2320B-2011	Alkalinity, Total as CaCO3	23.3	mg/L	5.0	02/15/23 19:00	
EPA 300.0 Rev 2.1 1993	Chloride	2.9	mg/L	1.0	02/10/23 23:14	
92651382007	**YAT-YGWA-21I**					
	Performed by	Client			03/03/23 11:06	
	Collected By	Jake Swanson			03/03/23 11:06	
	Collected Date	02/07/23			03/03/23 11:06	
	Collected Time	12:48			03/03/23 11:06	
	pH	6.82	Std. Units		03/03/23 11:06	
EPA 6010D	Potassium	3.2	mg/L	0.20	02/21/23 17:14	
EPA 6010D	Sodium	20.4	mg/L	1.0	02/21/23 17:14	
EPA 6010D	Calcium	7.5	mg/L	1.0	02/21/23 17:14	
EPA 6010D	Magnesium	3.9	mg/L	0.050	02/21/23 17:14	
EPA 6020B	Arsenic	0.0028J	mg/L	0.0050	02/21/23 18:30	
EPA 6020B	Barium	0.010	mg/L	0.0050	02/21/23 18:30	
EPA 6020B	Cadmium	0.00012J	mg/L	0.00050	02/21/23 18:30	
EPA 6020B	Cobalt	0.014	mg/L	0.0050	02/21/23 18:30	
EPA 6020B	Lithium	0.0059J	mg/L	0.030	02/21/23 18:30	

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Peachtree Corners, GA 30092
(770)734-4200

SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651382007	**YAT-YGWA-21I**					
EPA 7470A	Mercury	0.00017J	mg/L	0.00020	02/24/23 12:11	
SM 2540C-2015	Total Dissolved Solids	163	mg/L	25.0	02/10/23 20:19	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	78.4	mg/L	5.0	02/15/23 19:06	
SM 2320B-2011	Alkalinity, Total as CaCO3	78.4	mg/L	5.0	02/15/23 19:06	
EPA 300.0 Rev 2.1 1993	Chloride	2.4	mg/L	1.0	02/10/23 23:28	
EPA 300.0 Rev 2.1 1993	Fluoride	0.10	mg/L	0.10	02/10/23 23:28	
EPA 300.0 Rev 2.1 1993	Sulfate	3.8	mg/L	1.0	02/10/23 23:28	
92651382008	**YAT-YGWA-17S**					
	Performed by	Client			03/03/23 11:12	
	Collected By	Jake Swanson			03/03/23 11:12	
	Collected Date	02/07/23			03/03/23 11:12	
	Collected Time	11:16			03/03/23 11:12	
	pH	5.47	Std. Units		03/03/23 11:12	
EPA 6010D	Potassium	0.41	mg/L	0.20	02/22/23 15:47	
EPA 6010D	Sodium	14.2	mg/L	1.0	02/21/23 17:19	
EPA 6010D	Calcium	2.9	mg/L	1.0	02/21/23 17:19	
EPA 6010D	Magnesium	0.98	mg/L	0.050	02/21/23 17:19	
EPA 6020B	Antimony	0.0013J	mg/L	0.0030	02/21/23 19:05	
EPA 6020B	Barium	0.017	mg/L	0.0050	02/21/23 19:05	
EPA 6020B	Beryllium	0.000096J	mg/L	0.00050	02/21/23 19:05	
EPA 6020B	Boron	0.014J	mg/L	0.040	02/21/23 19:05	
EPA 7470A	Mercury	0.00018J	mg/L	0.00020	02/24/23 12:13	
SM 2540C-2015	Total Dissolved Solids	78.0	mg/L	25.0	02/13/23 11:02	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	15.6	mg/L	5.0	02/15/23 19:14	
SM 2320B-2011	Alkalinity, Total as CaCO3	15.6	mg/L	5.0	02/15/23 19:14	
EPA 300.0 Rev 2.1 1993	Chloride	11.4	mg/L	1.0	02/10/23 23:43	
EPA 300.0 Rev 2.1 1993	Sulfate	4.9	mg/L	1.0	02/10/23 23:43	
92651382009	**YAT-YGWA-18S**					
	Performed by	Client			03/03/23 11:14	
	Collected By	Jake Swanson			03/03/23 11:14	
	Collected Date	02/07/23			03/03/23 11:14	
	Collected Time	13:48			03/03/23 11:14	
	pH	5.03	Std. Units		03/03/23 11:14	
EPA 6010D	Sodium	7.8	mg/L	1.0	02/21/23 17:24	
EPA 6010D	Calcium	0.79J	mg/L	1.0	02/21/23 17:24	
EPA 6010D	Magnesium	0.91	mg/L	0.050	02/21/23 17:24	
EPA 6010D	Potassium	0.50	mg/L	0.20	02/22/23 15:52	
EPA 6020B	Barium	0.012	mg/L	0.0050	02/21/23 19:11	
EPA 6020B	Beryllium	0.000071J	mg/L	0.00050	02/21/23 19:11	
EPA 6020B	Chromium	0.0016J	mg/L	0.0050	02/21/23 19:11	
EPA 6020B	Lithium	0.0012J	mg/L	0.030	02/21/23 19:11	
EPA 7470A	Mercury	0.00017J	mg/L	0.00020	02/24/23 12:16	
SM 2540C-2015	Total Dissolved Solids	55.0	mg/L	25.0	02/13/23 11:02	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	9.3	mg/L	5.0	02/15/23 19:20	
SM 2320B-2011	Alkalinity, Total as CaCO3	9.3	mg/L	5.0	02/15/23 19:20	

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Peachtree Corners, GA 30092
(770)734-4200

SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651382009	**YAT-YGWA-18S**					
EPA 300.0 Rev 2.1 1993	Chloride	6.4	mg/L	1.0	02/10/23 23:58	
EPA 300.0 Rev 2.1 1993	Sulfate	1.2	mg/L	1.0	02/10/23 23:58	
92651382010	**YAT-YGWA-18I**					
	Performed by	Client			03/03/23 11:16	
	Collected By	Jake Swanson			03/03/23 11:16	
	Collected Date	02/07/23			03/03/23 11:16	
	Collected Time	12:31			03/03/23 11:16	
	pH	6.00	Std. Units		03/03/23 11:16	
EPA 6010D	Potassium	0.96	mg/L	0.20	02/21/23 17:29	
EPA 6010D	Sodium	12.6	mg/L	1.0	02/21/23 17:29	
EPA 6010D	Calcium	5.5	mg/L	1.0	02/21/23 17:29	
EPA 6010D	Magnesium	3.1	mg/L	0.050	02/21/23 17:29	
EPA 6020B	Barium	0.019	mg/L	0.0050	02/21/23 19:17	
EPA 6020B	Lithium	0.0030J	mg/L	0.030	02/21/23 19:17	
EPA 7470A	Mercury	0.00013J	mg/L	0.00020	02/24/23 12:18	
SM 2540C-2015	Total Dissolved Solids	96.0	mg/L	25.0	02/13/23 11:02	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	36.0	mg/L	5.0	02/15/23 19:34	
SM 2320B-2011	Alkalinity, Total as CaCO3	36.0	mg/L	5.0	02/15/23 19:34	
EPA 300.0 Rev 2.1 1993	Chloride	7.4	mg/L	1.0	02/11/23 00:13	
EPA 300.0 Rev 2.1 1993	Sulfate	0.78J	mg/L	1.0	02/11/23 00:13	
92651382011	**YAT-YGWA-39**					
	Performed by	Client			03/03/23 11:17	
	Collected By	Jake Swanson			03/03/23 11:17	
	Collected Date	02/07/23			03/03/23 11:17	
	Collected Time	16:15			03/03/23 11:17	
	pH	5.49	Std. Units		03/03/23 11:17	
EPA 6010D	Potassium	6.6	mg/L	0.20	02/21/23 17:34	
EPA 6010D	Sodium	28.1	mg/L	1.0	02/21/23 17:34	
EPA 6010D	Calcium	16.1	mg/L	1.0	02/21/23 17:34	
EPA 6010D	Magnesium	21.7	mg/L	0.050	02/21/23 17:34	
EPA 6020B	Arsenic	0.0029J	mg/L	0.0050	02/21/23 19:23	
EPA 6020B	Barium	0.030	mg/L	0.0050	02/21/23 19:23	
EPA 6020B	Boron	0.13	mg/L	0.040	02/21/23 19:23	
EPA 6020B	Cadmium	0.00014J	mg/L	0.00050	02/21/23 19:23	
EPA 6020B	Cobalt	0.00066J	mg/L	0.0050	02/21/23 19:23	
EPA 6020B	Lithium	0.0065J	mg/L	0.030	02/21/23 19:23	
EPA 6020B	Molybdenum	0.0045J	mg/L	0.010	02/21/23 19:23	
SM 2540C-2015	Total Dissolved Solids	224	mg/L	25.0	02/13/23 11:02	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	177	mg/L	5.0	02/15/23 19:41	
SM 2320B-2011	Alkalinity, Total as CaCO3	177	mg/L	5.0	02/15/23 19:41	
EPA 300.0 Rev 2.1 1993	Chloride	5.6	mg/L	1.0	02/11/23 00:58	
EPA 300.0 Rev 2.1 1993	Fluoride	0.076J	mg/L	0.10	02/11/23 00:58	
EPA 300.0 Rev 2.1 1993	Sulfate	9.7	mg/L	1.0	02/11/23 00:58	

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(770)734-4200

SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651382012	**YAT-YGWA-47**					
	Performed by	Client			03/03/23 14:32	
	Collected By	Jake Swanson			03/03/23 14:32	
	Collected Date	02/08/23			03/03/23 14:32	
	Collected Time	17:02			03/03/23 14:32	
	pH	5.22	Std. Units		03/03/23 14:32	
EPA 6010D	Potassium	3.7	mg/L	0.20	02/21/23 17:39	
EPA 6010D	Sodium	11.4	mg/L	1.0	02/21/23 17:39	
EPA 6010D	Calcium	9.2	mg/L	1.0	02/21/23 17:39	
EPA 6010D	Magnesium	10	mg/L	0.050	02/21/23 17:39	
EPA 6020B	Barium	0.031	mg/L	0.0050	02/21/23 19:29	
EPA 6020B	Boron	0.011J	mg/L	0.040	02/21/23 19:29	
EPA 6020B	Cadmium	0.00032J	mg/L	0.00050	02/21/23 19:29	
EPA 6020B	Cobalt	0.0011J	mg/L	0.0050	02/21/23 19:29	
EPA 6020B	Lithium	0.0037J	mg/L	0.030	02/21/23 19:29	
SM 2540C-2015	Total Dissolved Solids	141	mg/L	25.0	02/14/23 12:04	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	37.8	mg/L	5.0	02/17/23 13:25	
SM 2320B-2011	Alkalinity, Total as CaCO3	37.8	mg/L	5.0	02/17/23 13:25	
EPA 300.0 Rev 2.1 1993	Chloride	3.5	mg/L	1.0	02/14/23 05:10	
EPA 300.0 Rev 2.1 1993	Fluoride	0.077J	mg/L	0.10	02/14/23 05:10	
EPA 300.0 Rev 2.1 1993	Sulfate	50.5	mg/L	1.0	02/14/23 05:10	
92651382013	**YAT-YGWA-30I**					
	Performed by	Client			03/03/23 14:39	
	Collected By	Jake Swanson			03/03/23 14:39	
	Collected Date	02/08/23			03/03/23 14:39	
	Collected Time	15:10			03/03/23 14:39	
	pH	6.43	Std. Units		03/03/23 14:39	
EPA 6010D	Potassium	0.55	mg/L	0.20	02/21/23 17:44	
EPA 6010D	Sodium	6.0	mg/L	1.0	02/21/23 17:44	
EPA 6010D	Calcium	1.3	mg/L	1.0	02/21/23 17:44	
EPA 6010D	Magnesium	0.92	mg/L	0.050	02/21/23 17:44	
EPA 6020B	Barium	0.0066	mg/L	0.0050	02/21/23 19:35	
EPA 6020B	Chromium	0.0021J	mg/L	0.0050	02/21/23 19:35	
EPA 6020B	Cobalt	0.0031J	mg/L	0.0050	02/21/23 19:35	
EPA 6020B	Lithium	0.0011J	mg/L	0.030	02/21/23 19:35	
SM 2540C-2015	Total Dissolved Solids	43.0	mg/L	25.0	02/14/23 12:05	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	15.4	mg/L	5.0	02/17/23 13:32	
SM 2320B-2011	Alkalinity, Total as CaCO3	15.4	mg/L	5.0	02/17/23 13:32	
EPA 300.0 Rev 2.1 1993	Chloride	1.6	mg/L	1.0	02/14/23 05:25	
EPA 300.0 Rev 2.1 1993	Fluoride	0.064J	mg/L	0.10	02/14/23 05:25	
EPA 300.0 Rev 2.1 1993	Sulfate	0.96J	mg/L	1.0	02/14/23 05:25	
92651382014	**YAT-YGWA-14S**					
	Performed by	Client			03/03/23 14:54	
	Collected By	Jake Swanson			03/03/23 14:54	
	Collected Date	02/08/23			03/03/23 14:54	

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Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651382014	**YAT-YGWA-14S**					
	Collected Time	13:50			03/03/23 14:54	
	pH	5.39	Std. Units		03/03/23 14:54	
EPA 6010D	Potassium	0.87	mg/L	0.20	02/21/23 17:58	
EPA 6010D	Sodium	9.5	mg/L	1.0	02/21/23 17:58	
EPA 6010D	Calcium	1.5	mg/L	1.0	02/21/23 17:58	
EPA 6010D	Magnesium	1.6	mg/L	0.050	02/21/23 17:58	
EPA 6020B	Barium	0.0089	mg/L	0.0050	02/21/23 19:41	
EPA 6020B	Beryllium	0.00022J	mg/L	0.00050	02/21/23 19:41	
EPA 6020B	Boron	0.015J	mg/L	0.040	02/21/23 19:41	
SM 2540C-2015	Total Dissolved Solids	56.0	mg/L	25.0	02/14/23 12:06	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	13.0	mg/L	5.0	02/17/23 13:37	
SM 2320B-2011	Alkalinity, Total as CaCO3	13.0	mg/L	5.0	02/17/23 13:37	
EPA 300.0 Rev 2.1 1993	Chloride	4.9	mg/L	1.0	02/14/23 05:40	
EPA 300.0 Rev 2.1 1993	Fluoride	0.059J	mg/L	0.10	02/14/23 05:40	
EPA 300.0 Rev 2.1 1993	Sulfate	6.1	mg/L	1.0	02/14/23 05:40	
92651382015	**YAT-YGWA-3I**					
	Performed by	Client			03/03/23 14:55	
	Collected By	Jake Swanson			03/03/23 14:55	
	Collected Date	02/08/23			03/03/23 14:55	
	Collected Time	10:00			03/03/23 14:55	
	pH	7.73	Std. Units		03/03/23 14:55	
EPA 6010D	Potassium	5.3	mg/L	0.20	02/21/23 18:03	
EPA 6010D	Sodium	9.4	mg/L	1.0	02/21/23 18:03	
EPA 6010D	Calcium	23.3	mg/L	1.0	02/21/23 18:03	
EPA 6010D	Magnesium	5.4	mg/L	0.050	02/21/23 18:03	
EPA 6020B	Arsenic	0.0024J	mg/L	0.0050	02/21/23 19:47	
EPA 6020B	Barium	0.0029J	mg/L	0.0050	02/21/23 19:47	
EPA 6020B	Cadmium	0.00013J	mg/L	0.00050	02/21/23 19:47	
EPA 6020B	Lithium	0.018J	mg/L	0.030	02/21/23 19:47	
EPA 6020B	Molybdenum	0.0065J	mg/L	0.010	02/21/23 19:47	
SM 2540C-2015	Total Dissolved Solids	145	mg/L	25.0	02/14/23 12:07	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	92.2	mg/L	5.0	02/17/23 13:43	
SM 2320B-2011	Alkalinity, Total as CaCO3	92.2	mg/L	5.0	02/17/23 13:43	
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	02/14/23 06:25	
EPA 300.0 Rev 2.1 1993	Fluoride	0.16	mg/L	0.10	02/14/23 06:25	
EPA 300.0 Rev 2.1 1993	Sulfate	14.7	mg/L	1.0	02/14/23 06:25	
92651382016	**YAT-YGWA-3D**					
	Performed by	Client			03/03/23 14:56	
	Collected By	Jake Swanson			03/03/23 14:56	
	Collected Date	02/08/23			03/03/23 14:56	
	Collected Time	11:40			03/03/23 14:56	
	pH	7.88	Std. Units		03/03/23 14:56	
EPA 6010D	Potassium	3.5	mg/L	0.20	02/21/23 18:08	
EPA 6010D	Sodium	9.9	mg/L	1.0	02/21/23 18:08	
EPA 6010D	Calcium	28.9	mg/L	1.0	02/21/23 18:08	

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651382016	**YAT-YGWA-3D**					
EPA 6010D	Magnesium	3.6	mg/L	0.050	02/21/23 18:08	
EPA 6020B	Arsenic	0.0030J	mg/L	0.0050	02/21/23 20:05	
EPA 6020B	Barium	0.0048J	mg/L	0.0050	02/21/23 20:05	
EPA 6020B	Lithium	0.023J	mg/L	0.030	02/21/23 20:05	
EPA 6020B	Molybdenum	0.012	mg/L	0.010	02/21/23 20:05	
SM 2540C-2015	Total Dissolved Solids	144	mg/L	25.0	02/14/23 12:07	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	106	mg/L	5.0	02/17/23 13:51	
SM 2320B-2011	Alkalinity, Total as CaCO3	106	mg/L	5.0	02/17/23 13:51	
EPA 300.0 Rev 2.1 1993	Chloride	1.2	mg/L	1.0	02/14/23 07:10	
EPA 300.0 Rev 2.1 1993	Fluoride	0.56	mg/L	0.10	02/14/23 07:10	
EPA 300.0 Rev 2.1 1993	Sulfate	7.5	mg/L	1.0	02/14/23 07:10	
92651382017	**YAT-YGWA-40**					
	Performed by	Client			03/03/23 14:57	
	Collected By	Jake Swanson			03/03/23 14:57	
	Collected Date	02/08/23			03/03/23 14:57	
	Collected Time	12:02			03/03/23 14:57	
	pH	5.71	Std. Units		03/03/23 14:57	
EPA 6010D	Potassium	2.2	mg/L	0.20	02/21/23 18:12	
EPA 6010D	Sodium	10.1	mg/L	1.0	02/21/23 18:12	
EPA 6010D	Calcium	5.9	mg/L	1.0	02/21/23 18:12	
EPA 6010D	Magnesium	3.4	mg/L	0.050	02/21/23 18:12	
EPA 6020B	Barium	0.037	mg/L	0.0050	02/21/23 20:11	
EPA 6020B	Beryllium	0.00026J	mg/L	0.00050	02/21/23 20:11	
EPA 6020B	Boron	0.057	mg/L	0.040	02/21/23 20:11	
EPA 6020B	Lithium	0.00074J	mg/L	0.030	02/21/23 20:11	
SM 2540C-2015	Total Dissolved Solids	115	mg/L	25.0	02/14/23 12:08	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	27.6	mg/L	5.0	02/17/23 14:09	
SM 2320B-2011	Alkalinity, Total as CaCO3	27.6	mg/L	5.0	02/17/23 14:09	
EPA 300.0 Rev 2.1 1993	Chloride	6.9	mg/L	1.0	02/14/23 08:10	
EPA 300.0 Rev 2.1 1993	Sulfate	17.5	mg/L	1.0	02/14/23 08:10	
92651382018	**YAT-YGWA-4I**					
	Performed by	Client			03/03/23 14:57	
	Collected By	Jake Swanson			03/03/23 14:57	
	Collected Date	02/09/23			03/03/23 14:57	
	Collected Time	09:55			03/03/23 14:57	
	pH	6.23	Std. Units		03/03/23 14:57	
EPA 6010D	Potassium	4.1	mg/L	0.20	02/21/23 18:17	
EPA 6010D	Sodium	9.9	mg/L	1.0	02/21/23 18:17	
EPA 6010D	Calcium	9.6	mg/L	1.0	02/21/23 18:17	
EPA 6010D	Magnesium	5.3	mg/L	0.050	02/21/23 18:17	
EPA 6020B	Barium	0.014	mg/L	0.0050	02/21/23 20:17	
EPA 6020B	Lithium	0.014J	mg/L	0.030	02/21/23 20:17	
SM 2540C-2015	Total Dissolved Solids	124	mg/L	25.0	02/15/23 18:40	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	57.7	mg/L	5.0	02/17/23 18:12	
SM 2320B-2011	Alkalinity, Total as CaCO3	57.7	mg/L	5.0	02/17/23 18:12	

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651382018	**YAT-YGWA-4I**					
EPA 300.0 Rev 2.1 1993	Chloride	4.5	mg/L	1.0	02/14/23 21:36	
EPA 300.0 Rev 2.1 1993	Fluoride	0.067J	mg/L	0.10	02/14/23 21:36	
EPA 300.0 Rev 2.1 1993	Sulfate	8.9	mg/L	1.0	02/14/23 21:36	
92651382019	**YAT-YGWA-5I**					
	Performed by	Client			03/03/23 14:58	
	Collected By	Jake Swanson			03/03/23 14:58	
	Collected Date	02/09/23			03/03/23 14:58	
	Collected Time	11:26			03/03/23 14:58	
	pH	5.90	Std. Units		03/03/23 14:58	
EPA 6010D	Potassium	1.6	mg/L	0.20	02/21/23 18:22	
EPA 6010D	Sodium	10.8	mg/L	1.0	02/21/23 18:22	
EPA 6010D	Calcium	2.8	mg/L	1.0	02/21/23 18:22	
EPA 6010D	Magnesium	2.7	mg/L	0.050	02/21/23 18:22	
EPA 6020B	Barium	0.019	mg/L	0.0050	02/21/23 20:23	
EPA 6020B	Chromium	0.0012J	mg/L	0.0050	02/21/23 20:23	
EPA 6020B	Lithium	0.0036J	mg/L	0.030	02/21/23 20:23	
SM 2540C-2015	Total Dissolved Solids	59.0	mg/L	25.0	02/15/23 18:40	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	26.4	mg/L	5.0	02/17/23 18:31	
SM 2320B-2011	Alkalinity, Total as CaCO3	26.4	mg/L	5.0	02/17/23 18:31	
EPA 300.0 Rev 2.1 1993	Chloride	5.0	mg/L	1.0	02/14/23 21:51	
EPA 300.0 Rev 2.1 1993	Sulfate	2.9	mg/L	1.0	02/14/23 21:51	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-1I **Lab ID: 92651382001** Collected: 02/07/23 11:45 Received: 02/08/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 10:59		
Collected By	**Jake Swanson**				1		03/03/23 10:59		
Collected Date	**02/07/23**				1		03/03/23 10:59		
Collected Time	**11:45**				1		03/03/23 10:59		
pH	**6.53**	Std. Units			1		03/03/23 10:59		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**2.0**	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 16:05	7440-09-7	
Sodium	**5.6**	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 16:05	7440-23-5	
Calcium	**2.2**	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 16:05	7440-70-2	
Magnesium	**1.5**	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 16:05	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 17:00	02/21/23 17:54	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 17:54	7440-38-2	
Barium	**0.21**	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 17:54	7440-39-3	
Beryllium	**0.00054**	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 17:54	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 17:54	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 17:54	7440-43-9	
Chromium	**0.0013J**	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 17:54	7440-47-3	
Cobalt	**0.0048J**	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 17:54	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 17:54	7439-92-1	
Lithium	**0.0029J**	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 17:54	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 17:54	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 17:54	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 17:54	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/24/23 07:00	02/24/23 11:49	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**121**	mg/L	25.0	25.0	1		02/10/23 20:18		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**20.4**	mg/L	5.0	5.0	1		02/15/23 17:28		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 17:28		
Alkalinity, Total as CaCO3	**20.4**	mg/L	5.0	5.0	1		02/15/23 17:28		

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Peachtree Corners, GA 30092
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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-1I **Lab ID: 92651382001** Collected: 02/07/23 11:45 Received: 02/08/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.5**	mg/L	1.0	0.60	1		02/10/23 21:29	16887-00-6	
Fluoride	**0.071J**	mg/L	0.10	0.050	1		02/10/23 21:29	16984-48-8	
Sulfate	**6.6**	mg/L	1.0	0.50	1		02/10/23 21:29	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-1D **Lab ID: 92651382002** Collected: 02/07/23 13:40 Received: 02/08/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 11:00		
Collected By	**Jake Swanson**				1		03/03/23 11:00		
Collected Date	**02/07/23**				1		03/03/23 11:00		
Collected Time	**13:40**				1		03/03/23 11:00		
pH	**7.86**	Std. Units			1		03/03/23 11:00		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**4.8**	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 16:10	7440-09-7	
Sodium	**11.5**	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 16:10	7440-23-5	
Calcium	**15.0**	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 16:10	7440-70-2	
Magnesium	**1.9**	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 16:10	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 17:00	02/21/23 18:00	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 18:00	7440-38-2	
Barium	**0.14**	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 18:00	7440-39-3	
Beryllium	**0.0011**	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 18:00	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 18:00	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 18:00	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 18:00	7440-47-3	
Cobalt	**0.00097J**	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 18:00	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 18:00	7439-92-1	
Lithium	**0.0060J**	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 18:00	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 18:00	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 18:00	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 18:00	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/24/23 07:00	02/24/23 11:52	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**131**	mg/L	25.0	25.0	1		02/10/23 20:18		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**65.4**	mg/L	5.0	5.0	1		02/15/23 17:46		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 17:46		
Alkalinity, Total as CaCO3	**65.4**	mg/L	5.0	5.0	1		02/15/23 17:46		

REPORT OF LABORATORY ANALYSIS

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-1D **Lab ID: 92651382002** Collected: 02/07/23 13:40 Received: 02/08/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.3**	mg/L	1.0	0.60	1		02/10/23 21:44	16887-00-6	
Fluoride	**0.093J**	mg/L	0.10	0.050	1		02/10/23 21:44	16984-48-8	
Sulfate	**10.6**	mg/L	1.0	0.50	1		02/10/23 21:44	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-2I **Lab ID: 92651382003** Collected: 02/07/23 15:40 Received: 02/08/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 11:00		
Collected By	**Jake Swanson**				1		03/03/23 11:00		
Collected Date	**02/07/23**				1		03/03/23 11:00		
Collected Time	**15:40**				1		03/03/23 11:00		
pH	**6.94**	Std. Units			1		03/03/23 11:00		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**5.1**	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 16:15	7440-09-7	
Sodium	**9.0**	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 16:15	7440-23-5	M1
Calcium	**25.6**	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 16:15	7440-70-2	M1
Magnesium	**4.1**	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 16:15	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 17:00	02/21/23 18:06	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 18:06	7440-38-2	
Barium	**0.0026J**	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 18:06	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 18:06	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 18:06	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 18:06	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 18:06	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 18:06	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 18:06	7439-92-1	
Lithium	**0.0047J**	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 18:06	7439-93-2	
Molybdenum	**0.0061J**	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 18:06	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 18:06	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 18:06	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/24/23 07:00	02/24/23 11:55	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**159**	mg/L	25.0	25.0	1		02/10/23 20:18		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**87.6**	mg/L	5.0	5.0	1		02/15/23 18:36		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 18:36		
Alkalinity, Total as CaCO3	**87.6**	mg/L	5.0	5.0	1		02/15/23 18:36		

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-2I **Lab ID: 92651382003** Collected: 02/07/23 15:40 Received: 02/08/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.1**	mg/L	1.0	0.60	1		02/10/23 21:59	16887-00-6	
Fluoride	**0.12**	mg/L	0.10	0.050	1		02/10/23 21:59	16984-48-8	
Sulfate	**17.8**	mg/L	1.0	0.50	1		02/10/23 21:59	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-GWA-2 **Lab ID: 92651382004** Collected: 02/07/23 11:48 Received: 02/08/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 11:01		
Collected By	**Jake Swanson**				1		03/03/23 11:01		
Collected Date	**02/07/23**				1		03/03/23 11:01		
Collected Time	**11:48**				1		03/03/23 11:01		
pH	**5.94**	Std. Units			1		03/03/23 11:01		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**9.5**	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 17:00	7440-09-7	
Sodium	**8.1**	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 17:00	7440-23-5	
Calcium	**22.3**	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 17:00	7440-70-2	
Magnesium	**19.3**	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 17:00	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 17:00	02/21/23 18:12	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 18:12	7440-38-2	
Barium	**0.034**	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 18:12	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 18:12	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 18:12	7440-42-8	
Cadmium	**0.00012J**	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 18:12	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 18:12	7440-47-3	
Cobalt	**0.034**	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 18:12	7440-48-4	
Copper	ND	mg/L	0.0050	0.0010	1	02/20/23 17:00	02/21/23 18:12	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 18:12	7439-92-1	
Lithium	**0.0022J**	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 18:12	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 18:12	7439-98-7	
Nickel	**0.0096**	mg/L	0.0050	0.00071	1	02/20/23 17:00	02/21/23 18:12	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 18:12	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	02/20/23 17:00	02/21/23 18:12	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 18:12	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	02/20/23 17:00	02/21/23 18:12	7440-62-2	
Zinc	**0.0072J**	mg/L	0.010	0.0070	1	02/20/23 17:00	02/21/23 18:12	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00013J**	mg/L	0.00020	0.00013	1	02/24/23 07:00	02/24/23 12:03	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**207**	mg/L	25.0	25.0	1		02/10/23 20:18		

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(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-GWA-2 **Lab ID: 92651382004** Collected: 02/07/23 11:48 Received: 02/08/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**62.4**	mg/L	5.0	5.0	1		02/15/23 18:45		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 18:45		
Alkalinity, Total as CaCO3	**62.4**	mg/L	5.0	5.0	1		02/15/23 18:45		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.1**	mg/L	1.0	0.60	1		02/10/23 22:14	16887-00-6	
Fluoride	**0.095J**	mg/L	0.10	0.050	1		02/10/23 22:14	16984-48-8	
Sulfate	**82.4**	mg/L	1.0	0.50	1		02/10/23 22:14	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-5D **Lab ID: 92651382005** Collected: 02/07/23 16:22 Received: 02/08/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 11:05		
Collected By	**Jake Swanson**				1		03/03/23 11:05		
Collected Date	**02/07/23**				1		03/03/23 11:05		
Collected Time	**16:22**				1		03/03/23 11:05		
pH	**6.64**	Std. Units			1		03/03/23 11:05		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**3.7**	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 17:05	7440-09-7	
Sodium	**9.7**	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 17:05	7440-23-5	
Calcium	**26.6**	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 17:05	7440-70-2	
Magnesium	**4.6**	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 17:05	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 17:00	02/21/23 18:18	7440-36-0	
Arsenic	**0.0030J**	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 18:18	7440-38-2	
Barium	**0.0075**	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 18:18	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 18:18	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 18:18	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 18:18	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 18:18	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 18:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 18:18	7439-92-1	
Lithium	**0.0059J**	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 18:18	7439-93-2	
Molybdenum	**0.00095J**	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 18:18	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 18:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 18:18	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/24/23 07:00	02/24/23 12:05	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**180**	mg/L	25.0	25.0	1		02/10/23 20:19		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**96.5**	mg/L	5.0	5.0	1		02/15/23 18:52		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 18:52		
Alkalinity, Total as CaCO3	**96.5**	mg/L	5.0	5.0	1		02/15/23 18:52		

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-5D **Lab ID: 92651382005** Collected: 02/07/23 16:22 Received: 02/08/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.3**	mg/L	1.0	0.60	1		02/10/23 22:29	16887-00-6	
Fluoride	**0.082J**	mg/L	0.10	0.050	1		02/10/23 22:29	16984-48-8	
Sulfate	**5.2**	mg/L	1.0	0.50	1		02/10/23 22:29	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-20S **Lab ID: 92651382006** Collected: 02/07/23 14:50 Received: 02/08/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 11:05		
Collected By	**Jake Swanson**				1		03/03/23 11:05		
Collected Date	**02/07/23**				1		03/03/23 11:05		
Collected Time	**14:50**				1		03/03/23 11:05		
pH	**5.63**	Std. Units			1		03/03/23 11:05		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**0.55**	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 17:10	7440-09-7	
Sodium	**8.7**	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 17:10	7440-23-5	
Calcium	**2.4**	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 17:10	7440-70-2	
Magnesium	**0.58**	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 17:10	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 17:00	02/21/23 18:24	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 18:24	7440-38-2	
Barium	**0.014**	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 18:24	7440-39-3	
Beryllium	**0.000074J**	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 18:24	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 18:24	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 18:24	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 18:24	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 18:24	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 18:24	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 18:24	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 18:24	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 18:24	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 18:24	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00015J**	mg/L	0.00020	0.00013	1	02/24/23 07:00	02/24/23 12:08	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**89.0**	mg/L	25.0	25.0	1		02/10/23 20:19		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**23.3**	mg/L	5.0	5.0	1		02/15/23 19:00		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 19:00		
Alkalinity, Total as CaCO3	**23.3**	mg/L	5.0	5.0	1		02/15/23 19:00		

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-20S **Lab ID: 92651382006** Collected: 02/07/23 14:50 Received: 02/08/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.9**	mg/L	1.0	0.60	1		02/10/23 23:14	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/10/23 23:14	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/10/23 23:14	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-21I **Lab ID: 92651382007** Collected: 02/07/23 12:48 Received: 02/08/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 11:06		
Collected By	**Jake Swanson**				1		03/03/23 11:06		
Collected Date	**02/07/23**				1		03/03/23 11:06		
Collected Time	**12:48**				1		03/03/23 11:06		
pH	**6.82**	Std. Units			1		03/03/23 11:06		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**3.2**	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 17:14	7440-09-7	
Sodium	**20.4**	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 17:14	7440-23-5	
Calcium	**7.5**	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 17:14	7440-70-2	
Magnesium	**3.9**	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 17:14	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 17:00	02/21/23 18:30	7440-36-0	
Arsenic	**0.0028J**	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 18:30	7440-38-2	
Barium	**0.010**	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 18:30	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 18:30	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 18:30	7440-42-8	
Cadmium	**0.00012J**	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 18:30	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 18:30	7440-47-3	
Cobalt	**0.014**	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 18:30	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 18:30	7439-92-1	
Lithium	**0.0059J**	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 18:30	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 18:30	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 18:30	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 18:30	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00017J**	mg/L	0.00020	0.00013	1	02/24/23 07:00	02/24/23 12:11	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**163**	mg/L	25.0	25.0	1		02/10/23 20:19		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**78.4**	mg/L	5.0	5.0	1		02/15/23 19:06		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 19:06		
Alkalinity, Total as CaCO3	**78.4**	mg/L	5.0	5.0	1		02/15/23 19:06		

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-21I **Lab ID: 92651382007** Collected: 02/07/23 12:48 Received: 02/08/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.4**	mg/L	1.0	0.60	1		02/10/23 23:28	16887-00-6	
Fluoride	**0.10**	mg/L	0.10	0.050	1		02/10/23 23:28	16984-48-8	
Sulfate	**3.8**	mg/L	1.0	0.50	1		02/10/23 23:28	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-17S **Lab ID: 92651382008** Collected: 02/07/23 11:16 Received: 02/08/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 11:12		
Collected By	**Jake Swanson**				1		03/03/23 11:12		
Collected Date	**02/07/23**				1		03/03/23 11:12		
Collected Time	**11:16**				1		03/03/23 11:12		
pH	**5.47**	Std. Units			1		03/03/23 11:12		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**0.41**	mg/L	0.20	0.15	1	02/20/23 17:00	02/22/23 15:47	7440-09-7	
Sodium	**14.2**	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 17:19	7440-23-5	
Calcium	**2.9**	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 17:19	7440-70-2	
Magnesium	**0.98**	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 17:19	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0013J**	mg/L	0.0030	0.00078	1	02/20/23 17:00	02/21/23 19:05	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 19:05	7440-38-2	
Barium	**0.017**	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 19:05	7440-39-3	
Beryllium	**0.000096J**	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 19:05	7440-41-7	
Boron	**0.014J**	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 19:05	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 19:05	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 19:05	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 19:05	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 19:05	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 19:05	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 19:05	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 19:05	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 19:05	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00018J**	mg/L	0.00020	0.00013	1	02/24/23 07:00	02/24/23 12:13	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**78.0**	mg/L	25.0	25.0	1		02/13/23 11:02		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**15.6**	mg/L	5.0	5.0	1		02/15/23 19:14		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 19:14		
Alkalinity, Total as CaCO3	**15.6**	mg/L	5.0	5.0	1		02/15/23 19:14		

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(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-17S **Lab ID: 92651382008** Collected: 02/07/23 11:16 Received: 02/08/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**11.4**	mg/L	1.0	0.60	1		02/10/23 23:43	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/10/23 23:43	16984-48-8	
Sulfate	**4.9**	mg/L	1.0	0.50	1		02/10/23 23:43	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-18S **Lab ID: 92651382009** Collected: 02/07/23 13:48 Received: 02/08/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 11:14		
Collected By	**Jake Swanson**				1		03/03/23 11:14		
Collected Date	**02/07/23**				1		03/03/23 11:14		
Collected Time	**13:48**				1		03/03/23 11:14		
pH	**5.03**	Std. Units			1		03/03/23 11:14		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Sodium	**7.8**	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 17:24	7440-23-5	
Calcium	**0.79J**	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 17:24	7440-70-2	
Magnesium	**0.91**	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 17:24	7439-95-4	
Potassium	**0.50**	mg/L	0.20	0.15	1	02/20/23 17:00	02/22/23 15:52	7440-09-7	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 17:00	02/21/23 19:11	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 19:11	7440-38-2	
Barium	**0.012**	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 19:11	7440-39-3	
Beryllium	**0.000071J**	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 19:11	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 19:11	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 19:11	7440-43-9	
Chromium	**0.0016J**	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 19:11	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 19:11	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 19:11	7439-92-1	
Lithium	**0.0012J**	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 19:11	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 19:11	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 19:11	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 19:11	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00017J**	mg/L	0.00020	0.00013	1	02/24/23 07:00	02/24/23 12:16	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**55.0**	mg/L	25.0	25.0	1		02/13/23 11:02		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**9.3**	mg/L	5.0	5.0	1		02/15/23 19:20		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 19:20		
Alkalinity, Total as CaCO3	**9.3**	mg/L	5.0	5.0	1		02/15/23 19:20		

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-18S **Lab ID: 92651382009** Collected: 02/07/23 13:48 Received: 02/08/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.4**	mg/L	1.0	0.60	1		02/10/23 23:58	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/10/23 23:58	16984-48-8	
Sulfate	**1.2**	mg/L	1.0	0.50	1		02/10/23 23:58	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-18I **Lab ID: 92651382010** Collected: 02/07/23 12:31 Received: 02/08/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 11:16		
Collected By	**Jake Swanson**				1		03/03/23 11:16		
Collected Date	**02/07/23**				1		03/03/23 11:16		
Collected Time	**12:31**				1		03/03/23 11:16		
pH	**6.00**	Std. Units			1		03/03/23 11:16		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**0.96**	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 17:29	7440-09-7	
Sodium	**12.6**	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 17:29	7440-23-5	
Calcium	**5.5**	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 17:29	7440-70-2	
Magnesium	**3.1**	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 17:29	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 17:00	02/21/23 19:17	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 19:17	7440-38-2	
Barium	**0.019**	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 19:17	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 19:17	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 19:17	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 19:17	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 19:17	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 19:17	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 19:17	7439-92-1	
Lithium	**0.0030J**	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 19:17	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 19:17	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 19:17	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 19:17	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00013J**	mg/L	0.00020	0.00013	1	02/24/23 07:00	02/24/23 12:18	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**96.0**	mg/L	25.0	25.0	1		02/13/23 11:02		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**36.0**	mg/L	5.0	5.0	1		02/15/23 19:34		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 19:34		
Alkalinity, Total as CaCO3	**36.0**	mg/L	5.0	5.0	1		02/15/23 19:34		

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-18I **Lab ID: 92651382010** Collected: 02/07/23 12:31 Received: 02/08/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**7.4**	mg/L	1.0	0.60	1		02/11/23 00:13	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/11/23 00:13	16984-48-8	
Sulfate	**0.78J**	mg/L	1.0	0.50	1		02/11/23 00:13	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-39 **Lab ID: 92651382011** Collected: 02/07/23 16:15 Received: 02/08/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 11:17		
Collected By	**Jake Swanson**				1		03/03/23 11:17		
Collected Date	**02/07/23**				1		03/03/23 11:17		
Collected Time	**16:15**				1		03/03/23 11:17		
pH	**5.49**	Std. Units			1		03/03/23 11:17		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**6.6**	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 17:34	7440-09-7	
Sodium	**28.1**	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 17:34	7440-23-5	
Calcium	**16.1**	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 17:34	7440-70-2	
Magnesium	**21.7**	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 17:34	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 17:00	02/21/23 19:23	7440-36-0	
Arsenic	**0.0029J**	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 19:23	7440-38-2	
Barium	**0.030**	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 19:23	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 19:23	7440-41-7	
Boron	**0.13**	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 19:23	7440-42-8	
Cadmium	**0.00014J**	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 19:23	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 19:23	7440-47-3	
Cobalt	**0.00066J**	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 19:23	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 19:23	7439-92-1	
Lithium	**0.0065J**	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 19:23	7439-93-2	
Molybdenum	**0.0045J**	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 19:23	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 19:23	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 19:23	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 09:15	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**224**	mg/L	25.0	25.0	1		02/13/23 11:02		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**177**	mg/L	5.0	5.0	1		02/15/23 19:41		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 19:41		
Alkalinity, Total as CaCO3	**177**	mg/L	5.0	5.0	1		02/15/23 19:41		

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-39 **Lab ID: 92651382011** Collected: 02/07/23 16:15 Received: 02/08/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.6**	mg/L	1.0	0.60	1		02/11/23 00:58	16887-00-6	
Fluoride	**0.076J**	mg/L	0.10	0.050	1		02/11/23 00:58	16984-48-8	
Sulfate	**9.7**	mg/L	1.0	0.50	1		02/11/23 00:58	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-47 **Lab ID: 92651382012** Collected: 02/08/23 17:02 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 14:32		
Collected By	**Jake Swanson**				1		03/03/23 14:32		
Collected Date	**02/08/23**				1		03/03/23 14:32		
Collected Time	**17:02**				1		03/03/23 14:32		
pH	**5.22**	Std. Units			1		03/03/23 14:32		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**3.7**	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 17:39	7440-09-7	
Sodium	**11.4**	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 17:39	7440-23-5	
Calcium	**9.2**	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 17:39	7440-70-2	
Magnesium	**10**	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 17:39	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 17:00	02/21/23 19:29	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 19:29	7440-38-2	
Barium	**0.031**	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 19:29	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 19:29	7440-41-7	
Boron	**0.011J**	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 19:29	7440-42-8	
Cadmium	**0.00032J**	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 19:29	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 19:29	7440-47-3	
Cobalt	**0.0011J**	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 19:29	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 19:29	7439-92-1	
Lithium	**0.0037J**	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 19:29	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 19:29	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 19:29	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 19:29	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 09:18	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**141**	mg/L	25.0	25.0	1		02/14/23 12:04		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**37.8**	mg/L	5.0	5.0	1		02/17/23 13:25		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 13:25		
Alkalinity, Total as CaCO3	**37.8**	mg/L	5.0	5.0	1		02/17/23 13:25		

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(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-47 **Lab ID: 92651382012** Collected: 02/08/23 17:02 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.5**	mg/L	1.0	0.60	1		02/14/23 05:10	16887-00-6	
Fluoride	**0.077J**	mg/L	0.10	0.050	1		02/14/23 05:10	16984-48-8	
Sulfate	**50.5**	mg/L	1.0	0.50	1		02/14/23 05:10	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-30I **Lab ID: 92651382013** Collected: 02/08/23 15:10 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 14:39		
Collected By	**Jake Swanson**				1		03/03/23 14:39		
Collected Date	**02/08/23**				1		03/03/23 14:39		
Collected Time	**15:10**				1		03/03/23 14:39		
pH	**6.43**	Std. Units			1		03/03/23 14:39		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**0.55**	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 17:44	7440-09-7	
Sodium	**6.0**	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 17:44	7440-23-5	
Calcium	**1.3**	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 17:44	7440-70-2	
Magnesium	**0.92**	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 17:44	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 17:00	02/21/23 19:35	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 19:35	7440-38-2	
Barium	**0.0066**	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 19:35	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 19:35	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 19:35	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 19:35	7440-43-9	
Chromium	**0.0021J**	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 19:35	7440-47-3	
Cobalt	**0.0031J**	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 19:35	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 19:35	7439-92-1	
Lithium	**0.0011J**	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 19:35	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 19:35	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 19:35	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 19:35	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 11:17	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**43.0**	mg/L	25.0	25.0	1		02/14/23 12:05		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**15.4**	mg/L	5.0	5.0	1		02/17/23 13:32		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 13:32		
Alkalinity, Total as CaCO3	**15.4**	mg/L	5.0	5.0	1		02/17/23 13:32		

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(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-30I **Lab ID: 92651382013** Collected: 02/08/23 15:10 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.6**	mg/L	1.0	0.60	1		02/14/23 05:25	16887-00-6	
Fluoride	**0.064J**	mg/L	0.10	0.050	1		02/14/23 05:25	16984-48-8	
Sulfate	**0.96J**	mg/L	1.0	0.50	1		02/14/23 05:25	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-14S **Lab ID: 92651382014** Collected: 02/08/23 13:50 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 14:54		
Collected By	**Jake Swanson**				1		03/03/23 14:54		
Collected Date	**02/08/23**				1		03/03/23 14:54		
Collected Time	**13:50**				1		03/03/23 14:54		
pH	**5.39**	Std. Units			1		03/03/23 14:54		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**0.87**	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 17:58	7440-09-7	
Sodium	**9.5**	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 17:58	7440-23-5	
Calcium	**1.5**	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 17:58	7440-70-2	
Magnesium	**1.6**	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 17:58	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 17:00	02/21/23 19:41	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 19:41	7440-38-2	
Barium	**0.0089**	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 19:41	7440-39-3	
Beryllium	**0.00022J**	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 19:41	7440-41-7	
Boron	**0.015J**	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 19:41	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 19:41	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 19:41	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 19:41	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 19:41	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 19:41	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 19:41	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 19:41	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 19:41	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 11:20	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**56.0**	mg/L	25.0	25.0	1		02/14/23 12:06		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**13.0**	mg/L	5.0	5.0	1		02/17/23 13:37		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 13:37		
Alkalinity, Total as CaCO3	**13.0**	mg/L	5.0	5.0	1		02/17/23 13:37		

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-14S **Lab ID: 92651382014** Collected: 02/08/23 13:50 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.9**	mg/L	1.0	0.60	1		02/14/23 05:40	16887-00-6	
Fluoride	**0.059J**	mg/L	0.10	0.050	1		02/14/23 05:40	16984-48-8	
Sulfate	**6.1**	mg/L	1.0	0.50	1		02/14/23 05:40	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-3I **Lab ID: 92651382015** Collected: 02/08/23 10:00 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 14:55		
Collected By	**Jake Swanson**				1		03/03/23 14:55		
Collected Date	**02/08/23**				1		03/03/23 14:55		
Collected Time	**10:00**				1		03/03/23 14:55		
pH	**7.73**	Std. Units			1		03/03/23 14:55		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**5.3**	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 18:03	7440-09-7	
Sodium	**9.4**	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 18:03	7440-23-5	
Calcium	**23.3**	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 18:03	7440-70-2	
Magnesium	**5.4**	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 18:03	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 17:00	02/21/23 19:47	7440-36-0	
Arsenic	**0.0024J**	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 19:47	7440-38-2	
Barium	**0.0029J**	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 19:47	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 19:47	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 19:47	7440-42-8	
Cadmium	**0.00013J**	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 19:47	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 19:47	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 19:47	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 19:47	7439-92-1	
Lithium	**0.018J**	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 19:47	7439-93-2	
Molybdenum	**0.0065J**	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 19:47	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 19:47	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 19:47	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 11:28	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**145**	mg/L	25.0	25.0	1		02/14/23 12:07		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**92.2**	mg/L	5.0	5.0	1		02/17/23 13:43		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 13:43		
Alkalinity, Total as CaCO3	**92.2**	mg/L	5.0	5.0	1		02/17/23 13:43		

REPORT OF LABORATORY ANALYSIS

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-3I **Lab ID: 92651382015** Collected: 02/08/23 10:00 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.1**	mg/L	1.0	0.60	1		02/14/23 06:25	16887-00-6	
Fluoride	**0.16**	mg/L	0.10	0.050	1		02/14/23 06:25	16984-48-8	
Sulfate	**14.7**	mg/L	1.0	0.50	1		02/14/23 06:25	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-3D **Lab ID: 92651382016** Collected: 02/08/23 11:40 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 14:56		
Collected By	**Jake Swanson**				1		03/03/23 14:56		
Collected Date	**02/08/23**				1		03/03/23 14:56		
Collected Time	**11:40**				1		03/03/23 14:56		
pH	**7.88**	Std. Units			1		03/03/23 14:56		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**3.5**	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 18:08	7440-09-7	
Sodium	**9.9**	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 18:08	7440-23-5	
Calcium	**28.9**	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 18:08	7440-70-2	
Magnesium	**3.6**	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 18:08	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 17:00	02/21/23 20:05	7440-36-0	
Arsenic	**0.0030J**	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 20:05	7440-38-2	
Barium	**0.0048J**	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 20:05	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 20:05	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 20:05	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 20:05	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 20:05	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 20:05	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 20:05	7439-92-1	
Lithium	**0.023J**	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 20:05	7439-93-2	
Molybdenum	**0.012**	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 20:05	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 20:05	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 20:05	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 11:30	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**144**	mg/L	25.0	25.0	1		02/14/23 12:07		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**106**	mg/L	5.0	5.0	1		02/17/23 13:51		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 13:51		
Alkalinity, Total as CaCO3	**106**	mg/L	5.0	5.0	1		02/17/23 13:51		

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-3D **Lab ID: 92651382016** Collected: 02/08/23 11:40 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.2**	mg/L	1.0	0.60	1		02/14/23 07:10	16887-00-6	
Fluoride	**0.56**	mg/L	0.10	0.050	1		02/14/23 07:10	16984-48-8	
Sulfate	**7.5**	mg/L	1.0	0.50	1		02/14/23 07:10	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-40 **Lab ID: 92651382017** Collected: 02/08/23 12:02 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 14:57		
Collected By	**Jake Swanson**				1		03/03/23 14:57		
Collected Date	**02/08/23**				1		03/03/23 14:57		
Collected Time	**12:02**				1		03/03/23 14:57		
pH	**5.71**	Std. Units			1		03/03/23 14:57		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**2.2**	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 18:12	7440-09-7	
Sodium	**10.1**	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 18:12	7440-23-5	
Calcium	**5.9**	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 18:12	7440-70-2	
Magnesium	**3.4**	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 18:12	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 17:00	02/21/23 20:11	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 20:11	7440-38-2	
Barium	**0.037**	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 20:11	7440-39-3	
Beryllium	**0.00026J**	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 20:11	7440-41-7	
Boron	**0.057**	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 20:11	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 20:11	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 20:11	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 20:11	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 20:11	7439-92-1	
Lithium	**0.00074J**	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 20:11	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 20:11	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 20:11	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 20:11	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 11:33	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**115**	mg/L	25.0	25.0	1		02/14/23 12:08		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**27.6**	mg/L	5.0	5.0	1		02/17/23 14:09		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 14:09		
Alkalinity, Total as CaCO3	**27.6**	mg/L	5.0	5.0	1		02/17/23 14:09		

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(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-40 **Lab ID: 92651382017** Collected: 02/08/23 12:02 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.9**	mg/L	1.0	0.60	1		02/14/23 08:10	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/14/23 08:10	16984-48-8	
Sulfate	**17.5**	mg/L	1.0	0.50	1		02/14/23 08:10	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-4I **Lab ID: 92651382018** Collected: 02/09/23 09:55 Received: 02/10/23 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 14:57		
Collected By	**Jake Swanson**				1		03/03/23 14:57		
Collected Date	**02/09/23**				1		03/03/23 14:57		
Collected Time	**09:55**				1		03/03/23 14:57		
pH	**6.23**	Std. Units			1		03/03/23 14:57		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**4.1**	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 18:17	7440-09-7	
Sodium	**9.9**	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 18:17	7440-23-5	
Calcium	**9.6**	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 18:17	7440-70-2	
Magnesium	**5.3**	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 18:17	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 17:00	02/21/23 20:17	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 20:17	7440-38-2	
Barium	**0.014**	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 20:17	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 20:17	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 20:17	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 20:17	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 20:17	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 20:17	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 20:17	7439-92-1	
Lithium	**0.014J**	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 20:17	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 20:17	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 20:17	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 20:17	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 11:35	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**124**	mg/L	25.0	25.0	1		02/15/23 18:40		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**57.7**	mg/L	5.0	5.0	1		02/17/23 18:12		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 18:12		
Alkalinity, Total as CaCO3	**57.7**	mg/L	5.0	5.0	1		02/17/23 18:12		

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-4I **Lab ID: 92651382018** Collected: 02/09/23 09:55 Received: 02/10/23 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.5**	mg/L	1.0	0.60	1		02/14/23 21:36	16887-00-6	
Fluoride	**0.067J**	mg/L	0.10	0.050	1		02/14/23 21:36	16984-48-8	
Sulfate	**8.9**	mg/L	1.0	0.50	1		02/14/23 21:36	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-5I **Lab ID: 92651382019** Collected: 02/09/23 11:26 Received: 02/10/23 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 14:58		
Collected By	**Jake Swanson**				1		03/03/23 14:58		
Collected Date	**02/09/23**				1		03/03/23 14:58		
Collected Time	**11:26**				1		03/03/23 14:58		
pH	**5.90**	Std. Units			1		03/03/23 14:58		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**1.6**	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 18:22	7440-09-7	
Sodium	**10.8**	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 18:22	7440-23-5	
Calcium	**2.8**	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 18:22	7440-70-2	
Magnesium	**2.7**	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 18:22	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 17:00	02/21/23 20:23	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 20:23	7440-38-2	
Barium	**0.019**	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 20:23	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 20:23	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 20:23	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 20:23	7440-43-9	
Chromium	**0.0012J**	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 20:23	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 20:23	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 20:23	7439-92-1	
Lithium	**0.0036J**	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 20:23	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 20:23	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 20:23	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 20:23	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 11:38	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**59.0**	mg/L	25.0	25.0	1		02/15/23 18:40		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**26.4**	mg/L	5.0	5.0	1		02/17/23 18:31		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 18:31		
Alkalinity, Total as CaCO3	**26.4**	mg/L	5.0	5.0	1		02/17/23 18:31		

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-5I **Lab ID: 92651382019** Collected: 02/09/23 11:26 Received: 02/10/23 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.0**	mg/L	1.0	0.60	1		02/14/23 21:51	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/14/23 21:51	16984-48-8	
Sulfate	**2.9**	mg/L	1.0	0.50	1		02/14/23 21:51	14808-79-8	

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 757001
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92651382001, 92651382002, 92651382003, 92651382004, 92651382005, 92651382006, 92651382007, 92651382008, 92651382009, 92651382010, 92651382011, 92651382012, 92651382013, 92651382014, 92651382015, 92651382016, 92651382017, 92651382018, 92651382019

METHOD BLANK: 3932792 Matrix: Water
Associated Lab Samples: 92651382001, 92651382002, 92651382003, 92651382004, 92651382005, 92651382006, 92651382007, 92651382008, 92651382009, 92651382010, 92651382011, 92651382012, 92651382013, 92651382014, 92651382015, 92651382016, 92651382017, 92651382018, 92651382019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/21/23 15:56	
Magnesium	mg/L	ND	0.050	0.012	02/21/23 15:56	
Potassium	mg/L	ND	0.20	0.15	02/21/23 15:56	
Sodium	mg/L	ND	1.0	0.58	02/21/23 15:56	

LABORATORY CONTROL SAMPLE: 3932793

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	100	80-120	
Magnesium	mg/L	1	1.0	101	80-120	
Potassium	mg/L	1	0.97	97	80-120	
Sodium	mg/L	1	0.98J	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3932794 3932795

Parameter	Units	92651382003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	25.6	1	1	25.6	26.5	4	88	75-125	3	20	M1
Magnesium	mg/L	4.1	1	1	4.9	5.1	87	101	75-125	3	20	
Potassium	mg/L	5.1	1	1	6.1	6.2	93	103	75-125	2	20	
Sodium	mg/L	9.0	1	1	9.7	10	65	97	75-125	3	20	M1

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 756999
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92651382001, 92651382002, 92651382003, 92651382004, 92651382005, 92651382006, 92651382007, 92651382008, 92651382009, 92651382010, 92651382011, 92651382012, 92651382013, 92651382014, 92651382015, 92651382016, 92651382017, 92651382018, 92651382019

METHOD BLANK: 3932782
Matrix: Water
Associated Lab Samples: 92651382001, 92651382002, 92651382003, 92651382004, 92651382005, 92651382006, 92651382007, 92651382008, 92651382009, 92651382010, 92651382011, 92651382012, 92651382013, 92651382014, 92651382015, 92651382016, 92651382017, 92651382018, 92651382019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/21/23 17:42	
Arsenic	mg/L	ND	0.0050	0.0022	02/21/23 17:42	
Barium	mg/L	ND	0.0050	0.00067	02/21/23 17:42	
Beryllium	mg/L	ND	0.00050	0.000054	02/21/23 17:42	
Boron	mg/L	ND	0.040	0.0086	02/21/23 17:42	
Cadmium	mg/L	ND	0.00050	0.00011	02/21/23 17:42	
Chromium	mg/L	ND	0.0050	0.0011	02/21/23 17:42	
Cobalt	mg/L	ND	0.0050	0.00039	02/21/23 17:42	
Copper	mg/L	ND	0.0050	0.0010	02/21/23 17:42	
Lead	mg/L	ND	0.0010	0.00089	02/21/23 17:42	
Lithium	mg/L	ND	0.030	0.00073	02/21/23 17:42	
Molybdenum	mg/L	ND	0.010	0.00074	02/21/23 17:42	
Nickel	mg/L	ND	0.0050	0.00071	02/21/23 17:42	
Selenium	mg/L	ND	0.0050	0.0014	02/21/23 17:42	
Silver	mg/L	ND	0.0050	0.00044	02/21/23 17:42	
Thallium	mg/L	ND	0.0010	0.00018	02/21/23 17:42	
Vanadium	mg/L	ND	0.010	0.0019	02/21/23 17:42	
Zinc	mg/L	ND	0.010	0.0070	02/21/23 17:42	

LABORATORY CONTROL SAMPLE: 3932783

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	110	80-120	
Arsenic	mg/L	0.1	0.10	102	80-120	
Barium	mg/L	0.1	0.10	104	80-120	
Beryllium	mg/L	0.1	0.11	107	80-120	
Boron	mg/L	1	1.1	106	80-120	
Cadmium	mg/L	0.1	0.10	104	80-120	
Chromium	mg/L	0.1	0.10	104	80-120	
Cobalt	mg/L	0.1	0.10	104	80-120	
Copper	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.10	101	80-120	
Lithium	mg/L	0.1	0.11	108	80-120	
Molybdenum	mg/L	0.1	0.10	105	80-120	
Nickel	mg/L	0.1	0.10	102	80-120	

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

LABORATORY CONTROL SAMPLE: 3932783

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Selenium	mg/L	0.1	0.10	103	80-120	
Silver	mg/L	0.1	0.10	104	80-120	
Thallium	mg/L	0.1	0.10	102	80-120	
Vanadium	mg/L	0.1	0.10	102	80-120	
Zinc	mg/L	0.1	0.10	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3932784 3932785

Parameter	Units	92651382007 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	106	108	75-125	1	20	
Arsenic	mg/L	0.0028J	0.1	0.1	0.10	0.10	100	100	75-125	1	20	
Barium	mg/L	0.010	0.1	0.1	0.11	0.12	103	105	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.1	0.10	0.099	100	99	75-125	1	20	
Boron	mg/L	ND	1	1	1.0	1.0	101	100	75-125	1	20	
Cadmium	mg/L	0.00012J	0.1	0.1	0.10	0.10	105	103	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.11	0.10	106	102	75-125	4	20	
Cobalt	mg/L	0.014	0.1	0.1	0.12	0.11	102	100	75-125	2	20	
Copper	mg/L	ND	0.1	0.1	0.10	0.099	103	99	75-125	4	20	
Lead	mg/L	ND	0.1	0.1	0.097	0.098	97	98	75-125	2	20	
Lithium	mg/L	0.0059J	0.1	0.1	0.11	0.11	99	100	75-125	0	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	101	103	75-125	2	20	
Nickel	mg/L	ND	0.1	0.1	0.10	0.099	103	99	75-125	4	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	0	20	
Silver	mg/L	ND	0.1	0.1	0.098	0.098	98	98	75-125	0	20	
Thallium	mg/L	ND	0.1	0.1	0.099	0.10	99	101	75-125	1	20	
Vanadium	mg/L	0.0024J	0.1	0.1	0.11	0.10	104	103	75-125	2	20	
Zinc	mg/L	0.31	0.1	0.1	0.31	0.30	-1	-11	75-125	3	20	M1

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 757772
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92651382001, 92651382002, 92651382003, 92651382004, 92651382005, 92651382006, 92651382007, 92651382008, 92651382009, 92651382010

METHOD BLANK: 3936482 Matrix: Water
Associated Lab Samples: 92651382001, 92651382002, 92651382003, 92651382004, 92651382005, 92651382006, 92651382007, 92651382008, 92651382009, 92651382010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/24/23 11:05	

LABORATORY CONTROL SAMPLE: 3936483

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0023	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3936484 3936485

Parameter	Units	92651415001 Result	MS 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	0.0021	0.0021	83	84	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 758311
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92651382011, 92651382012

METHOD BLANK: 3939038 Matrix: Water
Associated Lab Samples: 92651382011, 92651382012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/28/23 08:04	

LABORATORY CONTROL SAMPLE: 3939039

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3939040 3939041

Parameter	Units	92650181021 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	0.0023	92	93	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 758312
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92651382013, 92651382014, 92651382015, 92651382016, 92651382017, 92651382018, 92651382019

METHOD BLANK: 3939045 Matrix: Water
Associated Lab Samples: 92651382013, 92651382014, 92651382015, 92651382016, 92651382017, 92651382018, 92651382019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/28/23 10:25	

LABORATORY CONTROL SAMPLE: 3939046

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0026	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3939047 3939048

Parameter	Units	92651576003 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	0.0023	89	89	75-125	0	20	

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 755255 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92651382001, 92651382002, 92651382003, 92651382004, 92651382005, 92651382006, 92651382007

METHOD BLANK: 3924151 Matrix: Water
Associated Lab Samples: 92651382001, 92651382002, 92651382003, 92651382004, 92651382005, 92651382006, 92651382007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/10/23 20:11	

LABORATORY CONTROL SAMPLE: 3924152

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	404	101	80-120	

SAMPLE DUPLICATE: 3924153

Parameter	Units	92650830002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	98.0	99.0	1	10	

SAMPLE DUPLICATE: 3924154

Parameter	Units	92651189001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	3260	3540	8	10	

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 755432
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: 92651382008, 92651382009, 92651382010, 92651382011

METHOD BLANK: 3924925 Matrix: Water
Associated Lab Samples: 92651382008, 92651382009, 92651382010, 92651382011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/13/23 11:02	

LABORATORY CONTROL SAMPLE: 3924926

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	389	97	80-120	

SAMPLE DUPLICATE: 3924927

Parameter	Units	92651382008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	78.0	72.0	8	10	

SAMPLE DUPLICATE: 3924928

Parameter	Units	92650182022 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	489	496	1	10	

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 755730 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92651382012, 92651382013, 92651382014, 92651382015, 92651382016, 92651382017

METHOD BLANK: 3926329 Matrix: Water
Associated Lab Samples: 92651382012, 92651382013, 92651382014, 92651382015, 92651382016, 92651382017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/14/23 11:56	

LABORATORY CONTROL SAMPLE: 3926330

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	396	99	80-120	

SAMPLE DUPLICATE: 3926331

Parameter	Units	92651580013 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	190	203	7	10	

SAMPLE DUPLICATE: 3926332

Parameter	Units	92651382012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	141	138	2	10	

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 755997
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: 92651382018, 92651382019

METHOD BLANK: 3927731 Matrix: Water
Associated Lab Samples: 92651382018, 92651382019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/15/23 18:35	

LABORATORY CONTROL SAMPLE: 3927732

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	384	96	80-120	

SAMPLE DUPLICATE: 3927733

Parameter	Units	92651576013 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	246	153	47	10	

SAMPLE DUPLICATE: 3927734

Parameter	Units	92651580022 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	582	676	15	10	

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 755796
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92651382001, 92651382002

METHOD BLANK: 3926730 Matrix: Water
Associated Lab Samples: 92651382001, 92651382002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/15/23 14:32	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/15/23 14:32	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/15/23 14:32	

LABORATORY CONTROL SAMPLE: 3926731

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.4	99	80-120	

LABORATORY CONTROL SAMPLE: 3926732

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.6	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3926733 3926734

Parameter	Units	92651382001 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	20.4	50	50	69.8	70.8	99	101	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3926735 3926736

Parameter	Units	92651382002 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	65.4	50	50	117	121	102	111	80-120	4	25	

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 755797
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92651382003, 92651382004, 92651382005, 92651382006, 92651382007, 92651382008, 92651382009, 92651382010, 92651382011

METHOD BLANK: 3926737 Matrix: Water
Associated Lab Samples: 92651382003, 92651382004, 92651382005, 92651382006, 92651382007, 92651382008, 92651382009, 92651382010, 92651382011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/15/23 18:18	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/15/23 18:18	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/15/23 18:18	

LABORATORY CONTROL SAMPLE: 3926738

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.3	101	80-120	

LABORATORY CONTROL SAMPLE: 3926739

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.9	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3926740 3926741

Parameter	Units	92651415002 Result	MS 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	53.5	53.8	102	102	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3926742 3926743

Parameter	Units	92651415003 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	10.3	50	50	62.8	63.4	105	106	80-120	1	25	

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 756119
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92651382012, 92651382013, 92651382014, 92651382015, 92651382016, 92651382017

METHOD BLANK: 3928501 Matrix: Water
Associated Lab Samples: 92651382012, 92651382013, 92651382014, 92651382015, 92651382016, 92651382017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/17/23 11:43	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/17/23 11:43	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/17/23 11:43	

LABORATORY CONTROL SAMPLE: 3928502

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.5	101	80-120	

LABORATORY CONTROL SAMPLE: 3928503

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.4	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3928504 3928505

Parameter	Units	92651771001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	219	50	50	262	271	86	104	80-120	3	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3928506 3928507

Parameter	Units	92651771002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	242	50	50	287	284	90	83	80-120	1	25	

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 756264
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92651382018, 92651382019

METHOD BLANK: 3929037 Matrix: Water
Associated Lab Samples: 92651382018, 92651382019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/17/23 15:34	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/17/23 15:34	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/17/23 15:34	

LABORATORY CONTROL SAMPLE: 3929038

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.9	102	80-120	

LABORATORY CONTROL SAMPLE: 3929039

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.3	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3929040 3929041

Parameter	Units	92651382018 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	57.7	50	50	111	113	107	111	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3929042 3929043

Parameter	Units	92651382019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	26.4	50	50	78.1	79.1	103	105	80-120	1	25	

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 755105
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: 92651382001, 92651382002, 92651382003, 92651382004, 92651382005, 92651382006, 92651382007, 92651382008, 92651382009, 92651382010, 92651382011

METHOD BLANK: 3923321 Matrix: Water
Associated Lab Samples: 92651382001, 92651382002, 92651382003, 92651382004, 92651382005, 92651382006, 92651382007, 92651382008, 92651382009, 92651382010, 92651382011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/10/23 20:14	
Fluoride	mg/L	ND	0.10	0.050	02/10/23 20:14	
Sulfate	mg/L	ND	1.0	0.50	02/10/23 20:14	

LABORATORY CONTROL SAMPLE: 3923322

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.5	99	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	48.8	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3923323 3923324

Parameter	Units	92651536005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.9	50	50	53.7	54.3	100	101	90-110	1	10	
Fluoride	mg/L	0.074J	2.5	2.5	2.5	2.6	98	100	90-110	2	10	
Sulfate	mg/L	5.0	50	50	53.3	54.1	97	98	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3923325 3923326

Parameter	Units	92651382010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	7.4	50	50	55.6	56.6	97	98	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	93	96	90-110	4	10	
Sulfate	mg/L	0.78J	50	50	47.5	48.5	93	96	90-110	2	10	

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 755595
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: 92651382012, 92651382013, 92651382014

METHOD BLANK: 3925880 Matrix: Water
Associated Lab Samples: 92651382012, 92651382013, 92651382014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/13/23 22:52	
Fluoride	mg/L	ND	0.10	0.050	02/13/23 22:52	
Sulfate	mg/L	ND	1.0	0.50	02/13/23 22:52	

LABORATORY CONTROL SAMPLE: 3925881

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.1	102	90-110	
Fluoride	mg/L	2.5	2.7	107	90-110	
Sulfate	mg/L	50	50.9	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3925882 3925883

Parameter	Units	92651580015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.8	50	50	53.5	56.1	99	105	90-110	5	10	
Fluoride	mg/L	0.050J	2.5	2.5	3.0	3.0	117	117	90-110	0	10	M1
Sulfate	mg/L	368	50	50	417	420	99	104	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3925884 3925885

Parameter	Units	92651415007 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	51.3	52.7	103	105	90-110	3	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	106	107	90-110	1	10	
Sulfate	mg/L	ND	50	50	51.3	53.3	102	106	90-110	4	10	

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 755597
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: 92651382015, 92651382016, 92651382017

METHOD BLANK: 3925890 Matrix: Water
Associated Lab Samples: 92651382015, 92651382016, 92651382017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/14/23 05:55	
Fluoride	mg/L	ND	0.10	0.050	02/14/23 05:55	
Sulfate	mg/L	ND	1.0	0.50	02/14/23 05:55	

LABORATORY CONTROL SAMPLE: 3925891

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.1	104	90-110	
Fluoride	mg/L	2.5	2.7	108	90-110	
Sulfate	mg/L	50	52.3	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3925892 3925893

Parameter	Units	92651382015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.1	50	50	51.8	52.9	101	103	90-110	2	10	
Fluoride	mg/L	0.16	2.5	2.5	2.9	2.9	109	110	90-110	1	10	
Sulfate	mg/L	14.7	50	50	64.8	65.7	100	102	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3925894 3925895

Parameter	Units	92651745002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1960	50	50	1980	2000	38	74	90-110	1	10	M1
Fluoride	mg/L	ND	2.5	2.5	ND	0.77	-2	29	90-110		10	M1
Sulfate	mg/L	26.1	50	50	78.9	80.4	106	109	90-110	2	10	

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 755672
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: 92651382018, 92651382019

METHOD BLANK: 3926089 Matrix: Water
Associated Lab Samples: 92651382018, 92651382019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/14/23 13:03	
Fluoride	mg/L	ND	0.10	0.050	02/14/23 13:03	
Sulfate	mg/L	ND	1.0	0.50	02/14/23 13:03	

LABORATORY CONTROL SAMPLE: 3926090

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.9	100	90-110	
Fluoride	mg/L	2.5	2.6	105	90-110	
Sulfate	mg/L	50	49.1	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3926091 3926092

Parameter	Units	92651576004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	15.1	50	50	65.5	66.8	101	103	90-110	2	10	
Fluoride	mg/L	0.070J	2.5	2.5	2.6	2.7	101	104	90-110	3	10	
Sulfate	mg/L	89.7	50	50	147	148	114	116	90-110	1	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3926093 3926094

Parameter	Units	92651614002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.9	50	50	58.0	58.3	104	105	90-110	0	10	
Fluoride	mg/L	0.11	2.5	2.5	2.8	2.8	106	108	90-110	1	10	
Sulfate	mg/L	193	50	50	243	244	101	102	90-110	0	10	

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QUALIFIERS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92651382001	YAT-YGWA-1I				
92651382002	YAT-YGWA-1D				
92651382003	YAT-YGWA-2I				
92651382004	YAT-GWA-2				
92651382005	YAT-YGWA-5D				
92651382006	YAT-YGWA-20S				
92651382007	YAT-YGWA-21I				
92651382008	YAT-YGWA-17S				
92651382009	YAT-YGWA-18S				
92651382010	YAT-YGWA-18I				
92651382011	YAT-YGWA-39				
92651382012	YAT-YGWA-47				
92651382013	YAT-YGWA-30I				
92651382014	YAT-YGWA-14S				
92651382015	YAT-YGWA-3I				
92651382016	YAT-YGWA-3D				
92651382017	YAT-YGWA-40				
92651382018	YAT-YGWA-4I				
92651382019	YAT-YGWA-5I				
92651382001	YAT-YGWA-1I	EPA 3010A	757001	EPA 6010D	757027
92651382002	YAT-YGWA-1D	EPA 3010A	757001	EPA 6010D	757027
92651382003	YAT-YGWA-2I	EPA 3010A	757001	EPA 6010D	757027
92651382004	YAT-GWA-2	EPA 3010A	757001	EPA 6010D	757027
92651382005	YAT-YGWA-5D	EPA 3010A	757001	EPA 6010D	757027
92651382006	YAT-YGWA-20S	EPA 3010A	757001	EPA 6010D	757027
92651382007	YAT-YGWA-21I	EPA 3010A	757001	EPA 6010D	757027
92651382008	YAT-YGWA-17S	EPA 3010A	757001	EPA 6010D	757027
92651382009	YAT-YGWA-18S	EPA 3010A	757001	EPA 6010D	757027
92651382010	YAT-YGWA-18I	EPA 3010A	757001	EPA 6010D	757027
92651382011	YAT-YGWA-39	EPA 3010A	757001	EPA 6010D	757027
92651382012	YAT-YGWA-47	EPA 3010A	757001	EPA 6010D	757027
92651382013	YAT-YGWA-30I	EPA 3010A	757001	EPA 6010D	757027
92651382014	YAT-YGWA-14S	EPA 3010A	757001	EPA 6010D	757027
92651382015	YAT-YGWA-3I	EPA 3010A	757001	EPA 6010D	757027
92651382016	YAT-YGWA-3D	EPA 3010A	757001	EPA 6010D	757027
92651382017	YAT-YGWA-40	EPA 3010A	757001	EPA 6010D	757027
92651382018	YAT-YGWA-4I	EPA 3010A	757001	EPA 6010D	757027
92651382019	YAT-YGWA-5I	EPA 3010A	757001	EPA 6010D	757027
92651382001	YAT-YGWA-1I	EPA 3005A	756999	EPA 6020B	757022
92651382002	YAT-YGWA-1D	EPA 3005A	756999	EPA 6020B	757022
92651382003	YAT-YGWA-2I	EPA 3005A	756999	EPA 6020B	757022
92651382004	YAT-GWA-2	EPA 3005A	756999	EPA 6020B	757022
92651382005	YAT-YGWA-5D	EPA 3005A	756999	EPA 6020B	757022
92651382006	YAT-YGWA-20S	EPA 3005A	756999	EPA 6020B	757022
92651382007	YAT-YGWA-21I	EPA 3005A	756999	EPA 6020B	757022
92651382008	YAT-YGWA-17S	EPA 3005A	756999	EPA 6020B	757022
92651382009	YAT-YGWA-18S	EPA 3005A	756999	EPA 6020B	757022
92651382010	YAT-YGWA-18I	EPA 3005A	756999	EPA 6020B	757022

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Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92651382011	**YAT-YGWA-39**	EPA 3005A	756999	EPA 6020B	757022
92651382012	**YAT-YGWA-47**	EPA 3005A	756999	EPA 6020B	757022
92651382013	**YAT-YGWA-30I**	EPA 3005A	756999	EPA 6020B	757022
92651382014	**YAT-YGWA-14S**	EPA 3005A	756999	EPA 6020B	757022
92651382015	**YAT-YGWA-3I**	EPA 3005A	756999	EPA 6020B	757022
92651382016	**YAT-YGWA-3D**	EPA 3005A	756999	EPA 6020B	757022
92651382017	**YAT-YGWA-40**	EPA 3005A	756999	EPA 6020B	757022
92651382018	**YAT-YGWA-4I**	EPA 3005A	756999	EPA 6020B	757022
92651382019	**YAT-YGWA-5I**	EPA 3005A	756999	EPA 6020B	757022
92651382001	**YAT-YGWA-1I**	EPA 7470A	757772	EPA 7470A	757938
92651382002	**YAT-YGWA-1D**	EPA 7470A	757772	EPA 7470A	757938
92651382003	**YAT-YGWA-2I**	EPA 7470A	757772	EPA 7470A	757938
92651382004	**YAT-GWA-2**	EPA 7470A	757772	EPA 7470A	757938
92651382005	**YAT-YGWA-5D**	EPA 7470A	757772	EPA 7470A	757938
92651382006	**YAT-YGWA-20S**	EPA 7470A	757772	EPA 7470A	757938
92651382007	**YAT-YGWA-21I**	EPA 7470A	757772	EPA 7470A	757938
92651382008	**YAT-YGWA-17S**	EPA 7470A	757772	EPA 7470A	757938
92651382009	**YAT-YGWA-18S**	EPA 7470A	757772	EPA 7470A	757938
92651382010	**YAT-YGWA-18I**	EPA 7470A	757772	EPA 7470A	757938
92651382011	**YAT-YGWA-39**	EPA 7470A	758311	EPA 7470A	758406
92651382012	**YAT-YGWA-47**	EPA 7470A	758311	EPA 7470A	758406
92651382013	**YAT-YGWA-30I**	EPA 7470A	758312	EPA 7470A	758407
92651382014	**YAT-YGWA-14S**	EPA 7470A	758312	EPA 7470A	758407
92651382015	**YAT-YGWA-3I**	EPA 7470A	758312	EPA 7470A	758407
92651382016	**YAT-YGWA-3D**	EPA 7470A	758312	EPA 7470A	758407
92651382017	**YAT-YGWA-40**	EPA 7470A	758312	EPA 7470A	758407
92651382018	**YAT-YGWA-4I**	EPA 7470A	758312	EPA 7470A	758407
92651382019	**YAT-YGWA-5I**	EPA 7470A	758312	EPA 7470A	758407
92651382001	**YAT-YGWA-1I**	SM 2540C-2015	755255		
92651382002	**YAT-YGWA-1D**	SM 2540C-2015	755255		
92651382003	**YAT-YGWA-2I**	SM 2540C-2015	755255		
92651382004	**YAT-GWA-2**	SM 2540C-2015	755255		
92651382005	**YAT-YGWA-5D**	SM 2540C-2015	755255		
92651382006	**YAT-YGWA-20S**	SM 2540C-2015	755255		
92651382007	**YAT-YGWA-21I**	SM 2540C-2015	755255		
92651382008	**YAT-YGWA-17S**	SM 2540C-2015	755432		
92651382009	**YAT-YGWA-18S**	SM 2540C-2015	755432		
92651382010	**YAT-YGWA-18I**	SM 2540C-2015	755432		
92651382011	**YAT-YGWA-39**	SM 2540C-2015	755432		
92651382012	**YAT-YGWA-47**	SM 2540C-2015	755730		
92651382013	**YAT-YGWA-30I**	SM 2540C-2015	755730		
92651382014	**YAT-YGWA-14S**	SM 2540C-2015	755730		
92651382015	**YAT-YGWA-3I**	SM 2540C-2015	755730		
92651382016	**YAT-YGWA-3D**	SM 2540C-2015	755730		
92651382017	**YAT-YGWA-40**	SM 2540C-2015	755730		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92651382018	**YAT-YGWA-4I**	SM 2540C-2015	755997		
92651382019	**YAT-YGWA-5I**	SM 2540C-2015	755997		
92651382001	**YAT-YGWA-1I**	SM 2320B-2011	755796		
92651382002	**YAT-YGWA-1D**	SM 2320B-2011	755796		
92651382003	**YAT-YGWA-2I**	SM 2320B-2011	755797		
92651382004	**YAT-GWA-2**	SM 2320B-2011	755797		
92651382005	**YAT-YGWA-5D**	SM 2320B-2011	755797		
92651382006	**YAT-YGWA-20S**	SM 2320B-2011	755797		
92651382007	**YAT-YGWA-21I**	SM 2320B-2011	755797		
92651382008	**YAT-YGWA-17S**	SM 2320B-2011	755797		
92651382009	**YAT-YGWA-18S**	SM 2320B-2011	755797		
92651382010	**YAT-YGWA-18I**	SM 2320B-2011	755797		
92651382011	**YAT-YGWA-39**	SM 2320B-2011	755797		
92651382012	**YAT-YGWA-47**	SM 2320B-2011	756119		
92651382013	**YAT-YGWA-30I**	SM 2320B-2011	756119		
92651382014	**YAT-YGWA-14S**	SM 2320B-2011	756119		
92651382015	**YAT-YGWA-3I**	SM 2320B-2011	756119		
92651382016	**YAT-YGWA-3D**	SM 2320B-2011	756119		
92651382017	**YAT-YGWA-40**	SM 2320B-2011	756119		
92651382018	**YAT-YGWA-4I**	SM 2320B-2011	756264		
92651382019	**YAT-YGWA-5I**	SM 2320B-2011	756264		
92651382001	**YAT-YGWA-1I**	EPA 300.0 Rev 2.1 1993	755105		
92651382002	**YAT-YGWA-1D**	EPA 300.0 Rev 2.1 1993	755105		
92651382003	**YAT-YGWA-2I**	EPA 300.0 Rev 2.1 1993	755105		
92651382004	**YAT-GWA-2**	EPA 300.0 Rev 2.1 1993	755105		
92651382005	**YAT-YGWA-5D**	EPA 300.0 Rev 2.1 1993	755105		
92651382006	**YAT-YGWA-20S**	EPA 300.0 Rev 2.1 1993	755105		
92651382007	**YAT-YGWA-21I**	EPA 300.0 Rev 2.1 1993	755105		
92651382008	**YAT-YGWA-17S**	EPA 300.0 Rev 2.1 1993	755105		
92651382009	**YAT-YGWA-18S**	EPA 300.0 Rev 2.1 1993	755105		
92651382010	**YAT-YGWA-18I**	EPA 300.0 Rev 2.1 1993	755105		
92651382011	**YAT-YGWA-39**	EPA 300.0 Rev 2.1 1993	755105		
92651382012	**YAT-YGWA-47**	EPA 300.0 Rev 2.1 1993	755595		
92651382013	**YAT-YGWA-30I**	EPA 300.0 Rev 2.1 1993	755595		
92651382014	**YAT-YGWA-14S**	EPA 300.0 Rev 2.1 1993	755595		
92651382015	**YAT-YGWA-3I**	EPA 300.0 Rev 2.1 1993	755597		
92651382016	**YAT-YGWA-3D**	EPA 300.0 Rev 2.1 1993	755597		
92651382017	**YAT-YGWA-40**	EPA 300.0 Rev 2.1 1993	755597		
92651382018	**YAT-YGWA-4I**	EPA 300.0 Rev 2.1 1993	755672		
92651382019	**YAT-YGWA-5I**	EPA 300.0 Rev 2.1 1993	755672		

REPORT OF LABORATORY ANALYSIS

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DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Me ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO# : 92651382

92651382

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other: ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 2/8/23 DW

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.7 Correction Factor: Add/Subtract (°C) +0.1

Cooler Temp Corrected (°C): 4.8

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#: 92651382**

PM: BV Due Date: 02/22/23

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA 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	1			1																			2				
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO# : 92651382**

PM: BV Due Date: 02/22/23

CLIENT: GA-GA Power

Courier: ☐ Commercial ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 2/8/23 CM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.7 Correction Factor: Add/Subtract (°C) +0.1

Cooler Temp Corrected (°C): 4.8

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#: 92651382

PM: BV Due Date: 02/22/23
CLIENT: GA-GA Power

Item #	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA 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)
		2	1			1 ✓																		2 BPN			
0																											
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2																											

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt
	Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO# : 92651382**

PM: BV Due Date: 02/22/23

CLIENT: GA-GA Power

Courier: ☐ Commercial ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 2/8/23 CM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.7 Correction Factor: Add/Subtract (°C) +0.1

Cooler Temp Corrected (°C): 4.8

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 #

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																							
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

aboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other: ☐ Client

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 2/8/23 CM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.7 **Correction Factor:** Add/Subtract (°C) +0.1

Cooler Temp Corrected (°C): 4.8

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 #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	V69T-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-)	V5GU-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 ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

.aboratory receiving samples:

Asheville ☐ **Eden** ☐ **Greenwood** ☐ **Huntersville** ☐ **Raleigh** ☐ **Mer** ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO#: 92651382

PM: BV **Due Date: 02/22/23**

CLIENT: GA-GA Power

Courier: ☐ Commercial ☑ Fed Ex ☐ UPS ☐ USPS ☑ Pace ☐ Client ☐ Other:

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 2/9/23 CAE

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.1 **Correction Factor:** Add/Subtract (°C) +0.1

Cooler Temp Corrected (°C): 2.2

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#: 92651382

PM: BV **Due Date: 02/22/23**

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

aboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO# : 92651382**

PM: BV **Due Date: 02/22/23**

CLIENT: GA-GA Power

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 2/9/23 CAR

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: 2c1 **Correction Factor:** Add/Subtract (°C) +01

Cooler Temp Corrected (°C): 2c2

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 v02_Sample Condition Upon Receipt
	Effective Date: 11/14/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project # **WO# : 92651382**

PM: BV Due Date: 02/22/23

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	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)
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: WO#: 92651382

PM: BV Due Date: 02/22/23

CLIENT: GA-GA Power

Courier: ☐ Commercial ☑ Fed Ex ☐ UPS ☐ USPS ☑ Pace ☐ Client ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 2/9/23 CA

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.1 Correction Factor: Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.2

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ 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 #

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)	BP1U	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-202391	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Olier Barnes Vang
Requested Due Date:	Standard TAT	Project Number:		Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	92651382
1	YAT-YGWA-39	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
2	YAT-YGWA-40	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
3	YAT-YGWA-1I	WG	G	2/7/23	1145	--	--		6	3		3							X	X	X	X	X			pH: 6.53 DCJ
4	YAT-YGWA-1D	WG	G	2/7/23	1340	--	--		6	3		3							X	X	X	X	X			pH: 7.86 DCJ
5	YAT-YGWA-2I	WG	G	2/7/23	1540	--	--		6	3		3							X	X	X	X	X			pH: 6.94 DCJ
6	YAT-YGWA-3I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
7	YAT-YGWA-3D	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jake Swanson (Arcadis	2/8/23	0800	[signature] Arc	2/8/23	0800	
App III Metals: Boron 6020B, Ca 6010D; App VIII 6020B: Zn, Ag, Ni, V	[signature] /Arc	2/8/23	0900	Ryan Williams / Pace	2/9/23	0900	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A; Mercury (Hg). **Also add Ca, Na, K for this event.** **Alkalinity - report total, carbonate, and bicarbonate**	Ryan Williams / Pace	2/9/23	1240				

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	(Arcadis) - Jake Swanson					
SIGNATURE of SAMPLER:	(Arcadis) - [signature]	DATE Signed: 2/8/23				

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 1

Section A – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S1	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	~~Nicole D'Oleo~~ Bonnie
Requested Due Date:	Standard TAT	Project Number:		Pace Profile #:	10840 Vary

Regulatory Agency: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	92651382
1	YAT-YGWA-47	WG	G			--	--		6	3		3						X	X	X	X	X			pH: 5.94
2	YAT-GWA-2	WG	G	2/1/23	1148	--	--		6	3		3						X	X	X	X	X	X		pH: 6.24
3	YAT-YGWA-4I	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
4	YAT-YGWA-5I	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
5	YAT-YGWA-5D	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
6	YAT-YGWA-17S	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
7	YAT-YGWA-18S	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
8	YAT-YGWA-18I	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
9	YAT-YGWA-20S	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
10	YAT-YGWA-21I	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
11	YAT-YGWA-30I	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
12	YAT-YGWA-14S	WG	G			--	--		6	3		3						X	X	X	X	X			pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Mark Chastain (Arcadis)	2/3/23	0900	Ryan Williams / Pace	2/3/23	0900	
App III Metals: Boron 6020B, Ca 6010D; App VIII 6020B: Zn, Ag, Ni, V	Ryan Williams / Pace	2/4/23	1240				
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). **Also add Ca, Na, K for this event.** **Alkalinity – report total, carbonate, and bicarbonate**							

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	Mark Chastain - Arcadis		
SIGNATURE of SAMPLER: Arcadis	Mark Chastain	DATE Signed:	2/3/23

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-202351	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	~~Nicole D'Orio~~ Kenneth Kang
Requested Due Date:	Std TAT	Project Number:		Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test: App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	92651382
1	YAT-YGWA-47	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
2	YAT-GWA-2	WG	G			--	--		6	3		3						X	X	X	X	X	X		pH:
3	YAT-YGWA-4I	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
4	YAT-YGWA-5I	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
5	YAT-YGWA-5D	WG	G	2/7/23	1622	--	--		6	3		3						X	X	X	X	X			pH: 6.64 005
6	YAT-YGWA-17S	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
7	YAT-YGWA-18S	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
8	YAT-YGWA-18I	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
9	YAT-YGWA-20S	WG	G	2/7/23	1450	--	--		6	3		3						X	X	X	X	X			pH: 5.63 006
10	YAT-YGWA-21I	WG	G	2/7/23	1248	--	--		6	3		3						X	X	X	X	X			pH: 6.82 007
11	YAT-YGWA-30I	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
12	YAT-YGWA-14S	WG	G			--	--		6	3		3						X	X	X	X	X			pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Kim Lapszynski /Arcadis	2/8/23	0800		2/8/23	0800	
App III Metals: Boron 6020B, Ca 6010D; App III 6020B: Zn, Ag, Ni, V	Kim Lapszynski	2/8/23	0900	Ryan Williams / Pace	2/8/23	0906	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate	Ryan Williams / Pace	2/8/23	1240				

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Kim Lapszynski					
SIGNATURE of SAMPLER:		DATE Signed: 2/8/23				

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-202351	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager: ~~Nicole D'Oleo~~ Bonnie Wang	
Requested Due Date:	Std TAT	Project Number:		Pace Profile #:	10840

Regulatory Agency: State / Location: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / H (gypsum only)	Residual Chlorine (Y/N)	92651342
1	YAT-YGWA-47	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
2	YAT-GWA-2	WG	G			--	--		6	3		3							X	X	X	X	X	X		pH:
3	YAT-YGWA-4I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
4	YAT-YGWA-5I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
5	YAT-YGWA-5D	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
6	YAT-YGWA-17S	WG	G	2/7/23	1116	--	--		6	3		3							X	X	X	X	X			pH: 5.47 DDB
7	YAT-YGWA-18S	WG	G	2/7	1348	--	--		6	3		3							X	X	X	X	X			pH: 5.03 DDB
8	YAT-YGWA-18I	WG	G	2/7	1231	--	--		6	3		3							X	X	X	X	X			pH: 6.00 DW
9	YAT-YGWA-20S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
10	YAT-YGWA-21I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
11	YAT-YGWA-30I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
12	YAT-YGWA-14S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica Ware /Arcadis	2/8/23	0800	Ryan William /Pace	2/9/23	0805	
App III Metals: Boron 6020B, Ca 6010D; App IV 6020B: Zn, Ag, Ni, V	Ryan William /Pace	2/9/23	0900	Ryan William /Pace	2/9/23	0906	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). **Also add Ca, Na, K for this event.** **Alkalinity - report total, carbonate, and bicarbonate**	Ryan William /Pace	2/8/23	1240				

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Jessica Ware - Arcadis					
SIGNATURE of SAMPLER:	Jessica Ware (Arcadis)	DATE Signed: 2/8/23				

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 2 of 2

Section A – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S1	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	9265/382
1	YAT-YGWA-39	WG	G	2/7	1615	--	--		6	3		3							X	X	X	X	X			pH: 5.49 ON
2	YAT-YGWA-40	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
3	YAT-YGWA-1I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
4	YAT-YGWA-1D	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
5	YAT-YGWA-2I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
6	YAT-YGWA-3I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
7	YAT-YGWA-3D	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
8						--	--																			pH:
9						--	--																			pH:
10						--	--																			pH:
11						--	--																			
12						--	--																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica Ware /Arcadis	2/8/23	0806	[signature] 2/8/23	2/8/23	0800	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	[signature] /Arc	2/8/23	0800	Ryan William / Pace	2/9/23	0900	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). **Also add Ca, Na, K for this event.** **Alkalinity - report total, carbonate, and bicarbonate**	Ryan William / Pace	2/9/23	1240				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: (Arcadis) Jessica Ware

SIGNATURE of SAMPLER: (Arcadis) [signature] DATE Signed: 2/8/23

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 1

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	laucoker@southernco.com
Phone:	470.620.6176 Fax
Requested Due Date:	STD TAT

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Task No:	YAT-CCR-ASSMT-2023S1
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C — Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	~~Nicole D'Oleo~~ Brianne Vann
Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	YAT-YGWA-47	WG	G	2/2/23	1702	--	--		6	3		3							X	X	X	X	X			pH: 5.22 0012
2	YAT-GWA-2	WG	G			--	--		6	3		3							X	X	X	X	X	X		pH:
3	YAT-YGWA-4I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
4	YAT-YGWA-5I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
5	YAT-YGWA-5D	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
6	YAT-YGWA-17S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
7	YAT-YGWA-18S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
8	YAT-YGWA-18I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
9	YAT-YGWA-20S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
10	YAT-YGWA-21I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
11	YAT-YGWA-30I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
12	YAT-YGWA-14S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:

Matrix codes: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

GW61382

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	[signature] /Arcadis	2/9/23	0920	Ryan Williams / Pace	2/9/23	0920	
App III Metals: Boron 6020B, Ca 6010D; App VIII 6020B: Zn, Ag, Ni, V	Ryan Williams / Pace	2/9/23	1235	[signature]	2/9/23	1235	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Crest - Arcadis

SIGNATURE of SAMPLER: [signature] DATE Signed: 2/9/23

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 2

Section A – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S1	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:	STD TAT	Project Number:		Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

Matrix codes: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	9605382
1	YAT-YGWA-47	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
2	YAT-GWA-2	WG	G			--	--		6	3		3							X	X	X	X	X	X			pH:
3	YAT-YGWA-4I	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
4	YAT-YGWA-5I	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
5	YAT-YGWA-5D	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
6	YAT-YGWA-17S	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
7	YAT-YGWA-18S	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
8	YAT-YGWA-18I	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
9	YAT-YGWA-20S	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
10	YAT-YGWA-21I	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
11	YAT-YGWA-30I	WG	G	2/8	1510	--	--		6	3		3							X	X	X	X	X				pH: 6.43 013
12	YAT-YGWA-14S	WG	G	2/8	1350	--	--		6	3		3							X	X	X	X	X				pH: 5.39 014

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/9/23	830	/AUS	2/9/23	0830	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	/AUS	2/9/23	920	Ryan Williams / Pace	2/9/23	0920	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). **Also add Ca, Na, K for this event.** **Alkalinity - report total, carbonate, and bicarbonate**	Ryan Williams / Pace	2/9/23	1235		2/9/23	1235	

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Jake Swanson					
SIGNATURE of SAMPLER:		DATE Signed: 2/9/23				

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 2 of 2

Section A – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S1	Address:	
Email To:	jaucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:	STD TAT	Project Number:		Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	12651382
1	YAT-YGWA-39	WG	G			--	--		6	3		3							X	X	X	X	X			
2	YAT-YGWA-40	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
3	YAT-YGWA-1I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
4	YAT-YGWA-1D	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
5	YAT-YGWA-2I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
6	YAT-YGWA-3I	WG	G	2/8	1000	--	--		6	3		3							X	X	X	X	X			pH:
7	YAT-YGWA-3D	WG	G	2/8	1140	--	--		6	3		3							X	X	X	X	X			pH:
8						--	--																			pH:
9						--	--																			pH:
10						--	--																			pH:
11						--	--																			
12						--	--																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/9/23	820	/AWS	2/9/23	0827	
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V	/AWS	2/9/23	0820	Ryan William /Pace	2/9/23	0900	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate	Ryan William /Pace	2/9/23	1235		2/9/23	1235	

SAMPLER NAME AND SIGNATURE				TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	(Arcadis) - Jake Swanson						
SIGNATURE of SAMPLER:	(Arcadis) -	DATE Signed:	2/4/23				

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 1

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	laucoker@southernco.com
Phone:	470.620.6176 Fax:
Requested Due Date:	5-10 TAT

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Task No:	YAT-CCR-ASSMT-2023S1
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C — Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	~~Nicole O'Dea~~ Ronnie Vans
Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

Requested Analyses Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 903.1/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	92651382
1	YAT-YGWA-39	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
2	YAT-YGWA-40	WG	G	2/8/23	1202	--	--		6	3		3							X	X	X	X	X			pH: 5.71 OK
3	YAT-YGWA-1I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
4	YAT-YGWA-1D	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
5	YAT-YGWA-2I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
6	YAT-YGWA-3I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
7	YAT-YGWA-3D	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
8						--	--																			pH:
9						--	--																			pH:
10						--	--																			pH:
11						--	--																			
12						--	--																			

Matrix codes: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/9/23	0900	/Pace	2/9/23	0900	
App III Metals: Boron 6020B, Ca 6010D; App IV 6020B: Zn, Ag, Ni, V	/Arcadis	2/9/23	0920	/Pace	2/9/23	0920	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). **Also add Ca, Na, K for this event.** **Alkalinity - report total, carbonate, and bicarbonate**	/Pace	2/9/23	1235	/Pace	2/9/23	1235	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: (Arcadis) -

SIGNATURE of SAMPLER: (Arcadis) - DATE Signed: 2/9/23

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : | Of |

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-292351	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	~~Nicole D'Otero~~ Bonnie Vang
Requested Due Date:	Std TAT	Project Number:		Pace Profile #:	10840

Regulatory Agency: Georgia

State / Location

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	92651382
1	YAT-YGWA-47	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
2	YAT-GWA-2	WG	G			--	--		6	3		3							X	X	X	X	X	X		pH:
3	YAT-YGWA-4I	WG	G	2/1/23	0955	--	--		6	3		3							X	X	X	X	X			pH: 6.23 018
4	YAT-YGWA-5I	WG	G	2/1/23	1126	--	--		6	3		3							X	X	X	X	X			pH: 5.90 119
5	YAT-YGWA-5D	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
6	YAT-YGWA-17S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
7	YAT-YGWA-18S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
8	YAT-YGWA-18I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
9	YAT-YGWA-20S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
10	YAT-YGWA-21I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
11	YAT-YGWA-30I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
12	YAT-YGWA-14S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Kim Lapszynski /Arcadis	2/10/23	1200	/Arcadis	2/10/23	1200	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V							
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate	/Arcadis	2/10/23	1400		2/10/23	1400	

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Kim Lapszynski					
SIGNATURE of SAMPLER:		DATE Signed: 2/10/23				

WO# : 92651382

PM: BV Due Date: 02/22/23

CLIENT: GA-GA Power

August 2023

Georgia Power Co. – Plant Yates

Data Review Report

Metals, General Chemistry, and Radium Analyses

SDGs #92683384 and 92683386

Analyses Performed By:
Pace Analytical Services – Asheville, North Carolina
Pace Analytical Services – Peachtree Corners, Georgia
Pace Analytical Services – Greensburg, Pennsylvania

Report #51403R
Review Level: Tier II
Project: 30143622.3B, 30143623.3B, 30143625.3B, and 30143626.3B

Summary

This Data Review Report summarizes the review of Sample Delivery Groups (SDGs) #92683384 and 92683386 for samples collected in association with the Georgia Power Company – Plant Yates. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the chain of custody form and a table summarizing the data validation qualifiers. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YAT-YGWC-23S	92683384001 92683386001	Water	8/16/2023		X	X	X
YAT-YGWC-38	92683384002 92683386002	Water	8/16/2023		X	X	X
YAT-AMA-R6-FD-2	92683384003 92683386003	Water	8/16/2023	YAT-YGWC-38	X	X	X
YAT-YGWC-41	92683384004 92683386004	Water	8/16/2023		X	X	X
YAT-YAMW-4	92683384005 92683386005	Water	8/16/2023		X	X	X
YAT-YAMW-5	92683384006 92683386006	Water	8/16/2023		X	X	X
YAT-AMA-R6-EB-2	92683384007 92683386007	Water	8/16/2023		X	X	X
YAT-AMA-R6-FB-2	92683384008 92683386008	Water	8/16/2023		X	X	X
YAT-YGWC-42	92683384009 92683386009	Water	8/16/2023		X	X	X
YAT-YGWC-43	92683384010 92683386010	Water	8/16/2023		X	X	X
YAT-YAMW-3	92683384011 92683386011	Water	8/16/2023		X	X	X
YAT-PZ-51	92683384012 92683386012	Water	8/16/2023		X	X	X

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YAT-AMA-R6-EB-1	92683384013 92683386013	Water	8/16/2023		X	X	X
YAT-YAMW-1	92683384014 92683386014	Water	8/16/2023		X	X	X
YAT-AMA-FD-1	92683384015 92683386015	Water	8/16/2023	YAT-YAMW-1	X	X	X
YAT-YGWC-36A	92683384016 92683386016	Water	8/16/2023		X	X	X
YAT-YGWC-49	92683384017 92683386017	Water	8/16/2023		X	X	X
YAT-PZ-35	92683384018 92683386018	Water	8/16/2023		X	X	X
YAT-YGWC-24SB	92683384019 92683386019	Water	8/16/2023		X	X	X
YAT-PZ-37D	92683384020 92683386020	Water	8/16/2023		X	X	X
YAT-PZ-37	92683384021 92683386021	Water	8/17/2023		X	X	X
YAT-AMA-R6-FD-3	92683384022 92683386022	Water	8/17/2023	YAT-PZ-37	X	X	X
YAT-PZ-52D	92683384023 92683386023	Water	8/17/2023		X	X	X
YAT-AMA-R6-FB-1	92683384024 92683386024	Water	8/17/2023		X	X	X
YAT-YAMW-2	92683384025 92683386025	Water	8/17/2023		X	X	X
YAT-YGWC-50	92683384026 92683386026	Water	8/17/2023		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 and mercury analysis for samples YAT-AMA-R6-EB-1, YAT-YAMW-1, YAT-AMA-FD-1, YAT-YGWC-36A, YAT-YGWC-49, YAT-PZ-35, YAT-YGWC-24SB, YAT-PZ-37D, YAT-PZ-37, YAT-AMA-R6-FD-3, YAT-PZ-52D, YAT-AMA-R6-FB-1, YAT-YAMW-2, and YAT-YGWC-50 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-YAMW-2	Boron (FB)	Detected sample results >RL and <BAL	“UB” at detected sample result

Notes:
FB = Field blank
RL = Reporting limit

3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS/MSD Analysis

All metal analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater.

The MS/MSD analysis was performed using sample YAT-YGWC-23S in association with SW-846 6010D. The concentration of calcium in the unspiked sample was 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 sample YAT-YGWC-42 in association with SW-846 6020B analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed using sample YAT-AMA-R6-EB-1 in association with SW-846 7470A analysis exhibited recoveries within the control limits.

3.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one times the RL is applied for water matrices.

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis. The MS/MSD recoveries exhibited acceptable RPDs.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 35% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-YAMW-1 / YAT-AMA-FD-1	Calcium	28.7	27.3	5.0%
	Barium	0.092	0.090	2.2%
	Boron	0.55	0.54	1.8%
	Beryllium	0.00028 J	0.00030 J	AC
	Cadmium	0.00021 J	0.00023 J	
	Cobalt	0.0027 J	0.0025 J	

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
	Lithium	0.016 J	0.016 J	
	Selenium	0.0046 J	0.0042 J	
YAT-YGWC-38 / YAT-AMA-R6-FD-2	Calcium	50.9	49.9	2.0%
	Boron	3.7	3.7	0.0%
	Selenium	0.053	0.051	3.8%
	Barium	0.015	0.016	AC
	Beryllium	0.0018	0.0018	
	Cadmium	0.00074	0.00070	
	Lithium	0.0058 J	0.0057 J	
YAT-PZ-37 / YAT-AMA-R6-FD-3	Calcium	101	101	0.0%
	Boron	9.5	9.4	1.1%
	Selenium	0.15	0.15	0.0%
	Barium	0.023	0.023	AC
	Beryllium	0.0012	0.0012	
	Cadmium	0.00085	0.00084	
	Cobalt	0.0027 J	0.0020 J	
	Lithium	0.016 J	0.015 J	

Note:
AC = Acceptable

The differences in the results between the parent sample YAT-YAMW-1 and field duplicate sample YAT-AMA-FD-1 were acceptable.

The differences in the results between the parent sample YAT-YGWC-38 and field duplicate sample YAT-AMA-R6-FD-2 were acceptable.

The differences in the results between the parent sample YAT-PZ-37 and field duplicate sample YAT-AMA-R6-FD-3 were acceptable.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for Metals

METALS: SW-846 6010D/6020B/7470A	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES) Inductively Coupled Plasma-Mass Spectrometry (ICP-MS) Atomic Absorption – Manual Cold Vapor (CV)					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X	X		
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Laboratory Duplicate (RPD)	X				X
Field Duplicate (RPD)		X		X	

Notes:

%R Percent recovery

RPD Relative percent difference

General Chemistry Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
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-YGWC-23S YAT-YGWC-38 YAT-AMA-R6-FD-2 YAT-YGWC-41 YAT-YAMW-4	TDS (EB)	Detected sample results >RL and <BAL	"UB" at detected sample result

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 sample YAT-PZ-37D in association with anions analysis exhibited recoveries within the control limits. The concentration of sulfate in the unspiked sample was greater than four-times the spike concentration, hence, the MS/MSD sample results for sulfate were not evaluated.

The MS/MSD analysis performed using sample YAT-AMA-R6-FB-1 in association with anions analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed on sample location YAT-YGWC-43 exhibited recoveries within control limits with the exception of the following analyte presented in the table below.

Sample Location	Analyte	MS Recovery	MSD Recovery
YAT-YGWC-43	Fluoride	> 125%	> 125%

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 using samples YAT-AMA-R6-EB-2 in association with TDS analysis exhibited an RPD or difference in the results within the control limit.

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis in association with anions. The MS/MSD recoveries exhibited acceptable RPDs.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 35% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-YAMW-1 / YAT-AMA-FD-1	TDS	363	358	1.4%
	Chloride	4.9	4.9	AC
	Sulfate	151	154	2.0%
YAT-YGWC-38 / YAT-AMA-R6-FD-2	TDS	460 U	436 U	AC
	Chloride	3.7	3.7	
	Sulfate	227	226	0.4%
YAT-PZ-37 / YAT-AMA-R6-FD-3	TDS	938	941	0.4%
	Chloride	4.1	4.3	AC
	Sulfate	459	469	2.2%

Note:
AC = Acceptable

The differences in the results between the parent sample YAT-YAMW-1 and field duplicate sample YAT-AMA-FD-1 were acceptable.

The differences in the results between the parent sample YAT-YGWC-38 and field duplicate sample YAT-AMA-R6-FD-2 were acceptable.

The differences in the results between the parent sample YAT-PZ-37 and field duplicate sample YAT-AMA-R6-FD-3 were acceptable.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for General Chemistry

General Chemistry: 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 was 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.

Radium-228 was detected in the field blank YAT-AMA-R6-FB-2 at an activity greater than the uncertainty and MDC. The NAD was calculated for each sample. The Radium-228 result in sample YAT-YGWC-41 was qualified as "J" since the NAD was less than 1.96. No qualifiers were assigned to the Radium-228 results in samples YAT-YGWC-23S, YAT-YGWC-38, YAT-AMA-R6-FD-2, YAT-YAMW-4, and YAT-YAMW-5 since the activities were less than the MDC.

Radium-228 was detected in the method blank associated with batch 611591 at an activity greater than the uncertainty and MDC. The NAD was calculated for each sample. The Radium-228 result in sample YAT-YGWC-50 was qualified as "J" since the NAD was less than 1.96. No qualifiers were assigned to the Radium-228 results in samples YAT-AMA-R6-FB-1 and YAT-YAMW-2 since the activities were less than the MDC.

3. Matrix Spike (MS)/Laboratory Duplicate Analysis

MS and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS Analysis

MS samples are not typically analyzed for gamma spectral content due to the inability of the laboratory to homogenize spike material with the sample.

If performed, the spike analysis must exhibit a percent recovery within the control limits of 70% to 130%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits.

In the event the recovery is outside of this limit, a numerical indicator to make assessments is calculated, with a limit of < ±3 sigma for either.

The numerical performance indicator for a matrix spike sample is calculated by:

$$Z_{MS} = \frac{x - x_0 - c}{\sqrt{u^2(x) + u^2(x_0) + u^2(c)}}$$

Where:

x = measured concentration of the spiked sample.

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-YGWC-50 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-FD-1	Radium-226	0.172 ± 0.220 U	0.340 ± 0.309 U	AC
	Radium-228	0.403 ± 0.286 U	0.555 ± 0.347 U	
	Total Radium	0.575 ± 0.506 U	0.895 ± 0.656 U	
YAT-YGWC-38 / YAT-AMA-R6-FD-2	Radium-226	0.381 ± 0.257 U	0.304 ± 0.283 U	AC
	Radium-228	0.236 ± 0.298 U	0.347 ± 0.300 U	
	Total Radium	0.617 ± 0.555 U	0.651 ± 0.583 U	
YAT-PZ-37 / YAT-AMA-R6-FD-3	Radium-226	1.01 ± 0.503	1.34 ± 0.559	AC
	Radium-228	0.892 ± 0.434	0.453 ± 0.385 U	
	Total Radium	1.90 ± 0.937	1.79 ± 0.944	

Note:
AC = Acceptable

The differences in the results between the parent sample YAT-YAMW-1 and field duplicate sample YAT-AMA-FD-1 were acceptable.

The differences in the results between the parent sample YAT-YGWC-38 and field duplicate sample YAT-AMA-R6-FD-2 were acceptable.

The differences in the results between the parent sample YAT-PZ-37 and field duplicate sample YAT-AMA-R6-FD-3 were acceptable.

5. Tracer or Carrier

Tracers and carriers are used in radiological separation methods to provide evaluation of chemical separation. Chemical yield is evaluated through the recovery of chemical species spiked into samples. Yield is evaluated radiometrically with a tracer and gravimetrically with a carrier. A control limit of 30% to 110% is applied to each sample spiked with either a carrier and/or a tracer.

The tracer and carrier analyses exhibited recoveries within the control limits.

6. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS/LCSD analysis must exhibit a percent recovery between the control limits of 60% to 135%. In the event the recovery is outside of this limit, a numerical indicator to make assessments is calculated, with a limit of +/- 3 sigma.

The numerical performance indicator for a laboratory control sample is calculated by:

$$Z_{LCS} = \frac{x - c}{\sqrt{u^2(x) + u^2(c)}}$$

Where:

x = Analytical result of the LCS

c = Known concentration of the LCS

$u^2(x)$ = combined standard uncertainty of the result squared.

$u^2(c)$ = combined standard uncertainty of the LCS value squared.

LCS performance is acceptable when the numerical performance indicator calculation yields a value between ±3 sigma. Warning limits have been established as ±2 sigma.

The LCS/LCSD analysis exhibited recoveries within the control limits.

7. Isotope Identification

For sample results to be considered “non-detect”, evaluate data based on the following two criteria. If either one of these criteria is true, the sample result is considered “non-detect”.

1. Sample result is less than the uncertainty and less than the MDC/MDA; or
2. Sample has an uncertainty greater than the result (or indistinguishable from background) or result falls between its uncertainty and its MDC/MDA.

Based on the above criteria sample results should be considered non-detect as follows:

- YAT-YGWC-41 – Radium-226
- YAT-AMA-R6-FD-3 – Radium-228
- YAT-AMA-R6-FB-2 and YAT-YGWC-50 – Radium-226 and total Radium
- YAT-YGWC-23S, YAT-YGWC-38, YAT-AMA-R6-FD-2, YAT-YAMW-4, YAT-YAMW-5, YAT-AMA-R6-EB-2, YAT-YGWC-42, YAT-PZ-51, YAT-AMA-R6-EB-1, YAT-YAMW-1, YAT-AMA-FD-1, YAT-YGWC-36A, YAT-YGWC-49, YAT-PZ-35, YAT-YGWC-24SB, YAT-AMA-R6-FB-1, and YAT-YAMW-2 – Radium-226, Radium-228, and total Radium

8. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for Radiologicals

Radiologicals: SW-846 9315/9320	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		X		X	
Activity, +/- uncertainty, MDC/MDA		X		X	
Blanks					
A. Method Blanks		X	X		
B. Equipment/Field Blanks		X	X		
Carrier (Surrogate) %R		X		X	
Tracer (Surrogate) %R		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS) %R	X				X
Matrix Spike Duplicate (MSD) %R	X				X
MS/MSD Precision (RPD)	X				X
Laboratory Duplicate (RPD)		X		X	
Field Duplicate (RPD)		X		X	

Notes:

%R Percent recovery

RPD Relative percent difference

VALIDATION PERFORMED BY: Jennifer Singer

SIGNATURE: 

DATE: October 4, 2023

PEER REVIEW: Joseph C. Houser

DATE: October 19, 2023

Chain of Custody / Data Qualifier Summary Table

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	jtucker@southernco.com
Phone:	470.620.6176 Fax
Requested Due Date:	Standard

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Task No:	YAT-CCR-ASSMT-202352
Purchase Order #:	
Project Name:	Plant Yates AMA-R6
Project Number:	

Section C — Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Bonnie Vang
Pace Profile #:	10840 - 10561 - 4

Regulatory Agency: —

State / Location: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	92683364
1	YAT-YGWC-23S	WG	G	8/16/23	1205	--	--		6	2		3							X	X	X	X		
2	YAT-YAMW-1	WG	G			--	--		5	2		3							X	X	X	X		
3	YAT-AMA-FD-1	WG	G			--	--		5	2		3							X	X	X	X		
4	YAT-YGWC-36A	WG	G			--	--		5	2		3							X	X	X	X		
5	YAT-YGWC-49	WG	G			--	--		5	2		3							X	X	X	X		
6	YAT-YGWC-38	WG	G	8/16/23	1020	--	--		6	2		3							X	X	X	X		
7	YAT-AMA-R6-FD-2	WG	G	8/16/23	--	--	--		6	2		3							X	X	X	X		
8	YAT-YGWC-41	WG	G	8/16/23	1455	--	--		6	2		3							X	X	X	X		
9	YAT-YGWC-42	WG	G			--	--		5	2		3							X	X	X	X		
10	YAT-YGWC-43	WG	G			--	--		5	2		3							X	X	X	X		
11	YAT-YAMW-2	WG	G			--	--		5	2		3							X	X	X	X		
12	YAT-YAMW-3	WG	G			--	--		5	2		3							X	X	X	X		

Residual Chlorine (Y/N): 001, 003, 004

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/17/23	0800		8/17/23	0800
App III Metals: Boron 6020B, Ca 6010D	/Arcadis	8/17/23	0955	Lynn Williams / Pace	8/17/23	0955
App IV Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg).	Lynn Williams / Pace	8/17/23	1254		8-17	1254

SAMPLE CONDITIONS: TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tom Lapsynski

SIGNATURE of SAMPLER: [signature] DATE Signed: 8/17/23

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S2	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax:	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	Brittany Young
Requested Due Date:	Standard	Project Number:		Pace Profile #:	10840

Regulatory Agency: —
State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	92663384
1	YAT-YAMW-4	WG	G	8/16/23	1648	–	–		6	2		4						X	X	X	X			005
2	YAT-YAMW-5	WG	G	8/16/23	1308	–	–		6	2		4						X	X	X	X			1120
3	YAT-PZ-37	WG	G			–	–		6	2		4						X	X	X	X			
4	YAT-AMA-R6-FD-3	WG	G			–	–		6	2		4						X	X	X	X			
5	YAT-PZ-37D	WG	G			–	–		6	2		4						X	X	X	X			
6	YAT-PZ-51	WG	G			–	–		6	2		4						X	X	X	X			
7	YAT-PZ-52D	WG	G			–	–		6	2		4						X	X	X	X			
8	YAT-PZ-35	WG	G			–	–		6	2		4						X	X	X	X			
9	YAT-AMA-R6-EB-1	WG	G			–	–		6	2		4						X	X	X	X			
10	YAT-AMA-R6-EB-2	WG	G	8/16/23	1730	–	–		6	2		4						X	X	X	X			1107
11	YAT-AMA-R6-FB-1	WG	G			–	–		6	2		4						X	X	X	X			
12	YAT-AMA-R6-FB-2	WG	G	8/16/23	1055	–	–		6	2		4						X	X	X	X			0950

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/17/23	0800		8/17/23	0800	
App III Metals: Boron 6020B, Ca 6010D	/Arcadis	8/17/23	0955	Kyra Williams /Pace	8/17/23	0955	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Kyra Williams /Pace	8/17/23	1254		8/17	1254	

SAMPLER NAME AND SIGNATURE				TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	(Arcadis) - Kim Lapsynski						
SIGNATURE of SAMPLER:	(Arcadis) -	DATE Signed:	8/17/23				

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S2	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax:	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	Bonnie Vang
Requested Due Date:	Standard	Project Number:		Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)
	MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS																						
1	YAT-YGWC-23S	WG	G			--	--		5	2		3							X	X	X	X	
2	YAT-YAMW-1	WG	G			--	--		5	2		3							X	X	X	X	
3	YAT-AMA-FD-1	WG	G			--	--		5	2		3							X	X	X	X	
4	YAT-YGWC-36A	WG	G			--	--		5	2		3							X	X	X	X	
5	YAT-YGWC-49	WG	G			--	--		5	2		3							X	X	X	X	
6	YAT-YGWC-38	WG	G			--	--		5	2		3							X	X	X	X	
7	YAT-AMA-R6-FD-2	WG	G			--	--		5	2		3							X	X	X	X	
8	YAT-YGWC-41	WG	G			--	--		5	2		3							X	X	X	X	
9	YAT-YGWC-42	WG	G	8/16	1759	--	--		5	2		HNO3							X	X	X	X	1109
10	YAT-YGWC-43	WG	G	8/16	1158	--	--		5	2		HNO3							X	X	X	X	1210
11	YAT-YAMW-2	WG	G			--	--		5	2		3							X	X	X	X	
12	YAT-YAMW-3	WG	G	8/16	1640	--	--		5	2		HNO3							X	X	X	X	1311

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/17/23	0800	/Arcadis	8/17/23	0800	
App III Metals: Boron 6020B, Ca 6010D	/Arcadis	8/17/23	0955	Ryan Williams/Pace	8/17/23	0955	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg).	Ryan Williams/Pace	8/17/23	1254		8-17	1254	

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Jessica Ware					
SIGNATURE of SAMPLER:		DATE Signed: 8/17/23				

926833B4

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-202352	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax:	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	Bonnie Yang
Requested Due Date:	Standard	Project Number:		Pace Profile #:	1084D

Regulatory Agency
State / Location
Georgia

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N	Analyses Test: App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	12683384
1	YAT-YAMW-4	WG	G			--	--		6	2		4							X	X	X	X		
2	YAT-YAMW-5	WG	G			--	--		6	2		4							X	X	X	X		
3	YAT-PZ-37	WG	G			--	--		6	2		4							X	X	X	X		
4	YAT-AMA-R6-FD-3	WG	G			--	--		6	2		4							X	X	X	X		
5	YAT-PZ-37D	WG	G			--	--		6	2		4							X	X	X	X		
6	YAT-PZ-51	WG	G	8/16	1047	--	--		6	2		4							X	X	X	X		012
7	YAT-PZ-52D	WG	G			--	--		6	2		4							X	X	X	X		
8	YAT-PZ-35	WG	G			--	--		6	2		4							X	X	X	X		
9	YAT-AMA-R6-EB-1	WG	G	8/16	1753	--	--		6	2		4							X	X	X	X		013
10	YAT-AMA-R6-EB-2	WG	G			--	--		6	2		4							X	X	X	X		
11	YAT-AMA-R6-FB-1	WG	G			--	--		6	2		4							X	X	X	X		
12	YAT-AMA-R6-FB-2	WG	G			--	--		6	2		4							X	X	X	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica Ware /Arcadis	8/17/23	0800	[illegible] Arcadis	8/17/23	0830	
App III Metals: Boron 6020B, Ca 6010D	[illegible] Arcadis	8/17/23	0955	Rhyan Williams /Pace	8/17/23	0955	
App IV Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg).	Rhyan Williams /Pace	8/17/23	1254	[illegible]	8-19	1254	

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	(Arcadis) Jessica Ware		
SIGNATURE of SAMPLER:	(Arcadis) [signature]	DATE Signed:	8/17/23

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 3

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S2	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates AMA-R6	Pace Project Manager	Bonnie Vang
Requested Due Date:	Standard	Project Number:		Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB, C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	
1	YAT-YGWC-23S	WG	G			--	--		5	2		3							X	X	X	X		92683384
2	YAT-YAMW-1	WG	G	8/10/23	1055	--	--		5	2		3							X	X	X	X		014
3	YAT-AMA-FD-1	WG	G	8/10/23	-	--	--		5	2		3							X	X	X	X		015
4	YAT-YGWC-36A	WG	G	8/10/23	1735	--	--		5	2		3							X	X	X	X		016
5	YAT-YGWC-49	WG	G	8/11/23	1618	--	--		5	2		3							X	X	X	X		017
6	YAT-YGWC-38	WG	G			--	--		5	2		3							X	X	X	X		
7	YAT-AMA-R6-FD-2	WG	G			--	--		5	2		3							X	X	X	X		
8	YAT-YGWC-41	WG	G			--	--		5	2		3							X	X	X	X		
9	YAT-YGWC-42	WG	G			--	--		5	2		3							X	X	X	X		
10	YAT-YGWC-43	WG	G			--	--		5	2		3							X	X	X	X		
11	YAT-YAMW-2	WG	G			--	--		5	2		3							X	X	X	X		
12	YAT-YAMW-3	WG	G			--	--		5	2		3							X	X	X	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/10/23	0957	Ryan Williams / Pace	8/12/23	0955	
App III Metals: Boron 6020B, Ca 6010D	Ryan Williams / Pace	8/12/23	1254		8-12	1254	
App IV Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg).							

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Mark Chastain				
SIGNATURE of SAMPLER:	DATE Signed: 8/10/23				

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S2	Address:	
Email To:	laycoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax:	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	
Requested Due Date:	Standard	Project Number:		Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N	Analyses Test: App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	
1	YAT-YAMW-4	WG	G			—	—		6	2		4							X	X	X	X		
2	YAT-YAMW-5	WG	G			—	—		6	2		4							X	X	X	X		
3	YAT-PZ-37	WG	G			—	—		6	2		4							X	X	X	X		
4	YAT-AMA-R6-FD-3	WG	G			—	—		6	2		4							X	X	X	X		
5	YAT-PZ-37D	WG	G			—	—		6	2		4							X	X	X	X		
6	YAT-PZ-51	WG	G			—	—		6	2		4							X	X	X	X		
7	YAT-PZ-52D	WG	G			—	—		6	2		4							X	X	X	X		
8	YAT-PZ-35	WG	G	8/16/23	1204	—	—		6	2		4							X	X	X	X		9268373B4
9	YAT-AMA-R6-EB-1	WG	G			—	—		6	2		4							X	X	X	X		0/8
10	YAT-AMA-R6-EB-2	WG	G			—	—		6	2		4							X	X	X	X		
11	YAT-AMA-R6-FB-1	WG	G			—	—		6	2		4							X	X	X	X		
12	YAT-AMA-R6-FB-2	WG	G			—	—		6	2		4							X	X	X	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	(Arcadis)	8/17/23	0955	Ryan William / Pace	8/17/23	0955	
App III Metals: Boron 6020B, Ca 6010D	Ryan William / Pace	8/17/23	1259		8-17	1254	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg).							

SAMPLER NAME AND SIGNATURE				TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	(Arcadis) -	Mark Chesl					
SIGNATURE of SAMPLER	(Arcadis) -		DATE Signed: 8/17/23				

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S2	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	
Requested Due Date:	Standard	Project Number		Pace Profile #:	10840

Regulatory Agency
State / Location
Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Cat, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	92685384
1	YAT-YGWC-24SB	WG	G	9/11/23	1503	--	--		8	2		4							X	X	X	X		014
2	YAT-YGWC-50	WG	G			--	--		6	2		4							X	X	X	X		
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/17/23	0955	Ryan Williams / Pace	8/17/23	0955	
App III Metals: Boron 6020B, Ca 6010D	Ryan Williams / Pace	8/17/23	1254		8-17	1254	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg).							

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	(Arcadis) - Mark Chesnut		
SIGNATURE of SAMPLER:	(Arcadis) -	DATE Signed:	8/17/23

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-202352	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	Bonnie Hay
Requested Due Date:	Standard	Project Number:		Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	926833B4
1	YAT-YAMW-4	WG	G			--	--		6	2		4							X	X	X	X		
2	YAT-YAMW-5	WG	G			--	--		6	2		4							X	X	X	X		
3	YAT-PZ-37	WG	G			--	--		6	2		4							X	X	X	X		
4	YAT-AMA-R6-FD-3	WG	G			--	--		6	2		4							X	X	X	X		
5	YAT-PZ-37D	WG	G	8/17/23	1720	--	--		6	2		4							X	X	X	X		020
6	YAT-PZ-51	WG	G			--	--		6	2		4							X	X	X	X		
7	YAT-PZ-52D	WG	G			--	--		6	2		4							X	X	X	X		
8	YAT-PZ-35	WG	G			--	--		6	2		4							X	X	X	X		
9	YAT-AMA-R6-EB-1	WG	G			--	--		6	2		4							X	X	X	X		
10	YAT-AMA-R6-EB-2	WG	G			--	--		6	2		4							X	X	X	X		
11	YAT-AMA-R6-FB-1	WG	G			--	--		6	2		4							X	X	X	X		
12	YAT-AMA-R6-FB-2	WG	G			--	--		6	2		4							X	X	X	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/17/23	0830	/Arcadis	8/17/23	0830	
App III Metals: Boron 6020B, Ca 6010D	Arcadis	8/18/23	0955	Ryan Williams /PM	8/17/23	0955	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg).	Ryan Williams /Pm	8/17/23	1254		8-17	1254	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: (Arcadis) - Mike Swanson

SIGNATURE of SAMPLER: (Arcadis) -

DATE Signed: 8/16/23

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : Of

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co
Address:	Atlanta GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S2	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470 620.6176 Fax	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	Bonnie Vang
Requested Due Date:	Standard TAT	Project Number:		Pace Profile #:	10840

Regulatory Agency: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals + Ca Na K	Cl, F SO4	TDS 2540C	RAD 9315/9320	Residual Chlorine Y/N	
1	YAT-YAMW-4	WG	G			--	--		6	2		4							X	X	X	X		
2	YAT-YAMW-5	WG	G			--	--		6	2		4							X	X	X	X		
3	YAT-PZ-37	WG	G	8/17/23	1020	--	--		6	2		4							X	X	X	X		021
4	YAT-AMA-R6-FD-3	WG	G	8/17/23	—	--	--		6	2		4							X	X	X	X		022
5	YAT-PZ-37D	WG	G			--	--		6	2		4							X	X	X	X		
6	YAT-PZ-51	WG	G			--	--		6	2		4							X	X	X	X		
7	YAT-PZ-52D	WG	G	8/17/23	1420	--	--		6	2		4							X	X	X	X		023
8	YAT-PZ-35	WG	G			--	--		6	2		4							X	X	X	X		
9	YAT-AMA-R6-EB-1	WG	G			--	--		6	2		4							X	X	X	X		
10	YAT-AMA-R6-EB-2	WG	G			--	--		6	2		4							X	X	X	X		
11	YAT-AMA-R6-FB-1	WG	G			--	--		6	2		4							X	X	X	X		
12	YAT-AMA-R6-FB-2	WG	G			--	--		6	2		4							X	X	X	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/17/23	1540	/Arcadis	8/17/23	1540	
App III Metals: Boron 6020B, Ca 6010D	/Arcadis	8/18/23	1105	/Pace	8/18/23	1105	
App IV Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: (Arcadis) - Jake Swanson

SIGNATURE of SAMPLER: (Arcadis) -

DATE Signed 8/17/23

TEMP in C | Received on Ice Y/N | Custody Sealed Cooler (Y/N) | Samples Intact Y/N

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : Of

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S2	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	Bonnie Young
Requested Due Date:	Standard TAT	Project Number		Pace Profile #:	10840

Regulatory Agency

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 903.0/9320	Residual Chlorine (Y/N)	92683384
1	YAT-YAMW-4	WG	G			--	--		6	2		4							X	X	X	X		
2	YAT-YAMW-5	WG	G			--	--		6	2		4							X	X	X	X		
3	YAT-PZ-37	WG	G			--	--		6	2		4							X	X	X	X		
4	YAT-AMA-R6-FD-3	WG	G			--	--		6	2		4							X	X	X	X		
5	YAT-PZ-37D	WG	G			--	--		6	2		4							X	X	X	X		
6	YAT-PZ-51	WG	G			--	--		6	2		4							X	X	X	X		
7	YAT-PZ-52D	WG	G			--	--		6	2		4							X	X	X	X		
8	YAT-PZ-35	WG	G			--	--		6	2		4							X	X	X	X		
9	YAT-AMA-R6-EB-1	WG	G			--	--		6	2		4							X	X	X	X		
10	YAT-AMA-R6-EB-2	WG	G			--	--		6	2		4							X	X	X	X		
11	YAT-AMA-R6-FB-1	WG	G	8/17/23	1155	--	--		6	2		4							X	X	X	X		024
12	YAT-AMA-R6-FB-2	WG	G			--	--		6	2		4							X	X	X	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/17/23	~~1155~~		8/17	1430	
App III Metals Boron 6020B, Ca 6010D	Arcadis	8/18/23	~~1105~~ 1105		8/18/23	1105	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg).							

SAMPLER NAME AND SIGNATURE				
PRINT Name of SAMPLER:	(Arcadis) -	Kim Lapszynski		
SIGNATURE of SAMPLER:	(Arcadis) -		DATE Signed	8/17/23

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : Of

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S2	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	Bonnie Vang
Requested Due Date:	Standard TAT	Project Number:		Pace Profile #:	10840

Regulatory Agency
State / Location
Georgia

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 93159320	Residual Chlorine (Y/N)	
	Requested Analysis Filtered (Y/N)																							92683384
1	YAT-YGWC-23S	WG	G			--	--		5	2		3							X	X	X	X		
2	YAT-YAMW-1	WG	G			--	--		5	2		3							X	X	X	X		
3	YAT-AMA-FD-1	WG	G			--	--		5	2		3							X	X	X	X		
4	YAT-YGWC-36A	WG	G			--	--		5	2		3							X	X	X	X		
5	YAT-YGWC-49	WG	G			--	--		5	2		3							X	X	X	X		
6	YAT-YGWC-38	WG	G			--	--		5	2		3							X	X	X	X		
7	YAT-AMA-R6-FD-2	WG	G			--	--		5	2		3							X	X	X	X		
8	YAT-YGWC-41	WG	G			--	--		5	2		3							X	X	X	X		
9	YAT-YGWC-42	WG	G			--	--		5	2		3							X	X	X	X		
10	YAT-YGWC-43	WG	G			--	--		5	2		3							X	X	X	X		
11	YAT-YAMW-2	WG	G	8/17/23	1230	--	--	6	5	2		3							X	X	X	X		025
12	YAT-YAMW-3	WG	G			--	--		5	2		3							X	X	X	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/17/23	1540	Arcadis	8/17/23	1540	
App III Metals: Boron 6020B, Ca 6010D	Arcadis	8/18/23	1105		8/18/23	1105	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg).							

SAMPLER NAME AND SIGNATURE				
PRINT Name of SAMPLER:	Jake Swanson			
SIGNATURE of SAMPLER:		DATE Signed:	8/17/23	

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-202352	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	Bonnie Young
Requested Due Date:	Standard TAT	Project Number:		Pace Profile #:	10840

Page : Of

Regulatory Agency
State / Location
Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	92683384
1	YAT-YGWC-24SB	WG	G			--	--		6	2		4							X	X	X	X		
2	YAT-YGWC-50	WG	G	8/17/23	1150	--	--		6	2		4							X	X	X	X		026
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/17/23	1430		8/17/23	1430	
App III Metals. Boron 6020B, Ca 6010D		8/18/23	1105		8/18/23	1105	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg).							

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	(Arcadis) -	Kim Lapczynski	
SIGNATURE of SAMPLER:	(Arcadis) -		DATE Signed: 8/17/23

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92683384	YAT-YGWC-23S	SM2540C	TDS	170	mg/L	UB	Blank contamination
	YAT-YGWC-38	SM2540C	TDS	460	mg/L	UB	Blank contamination
	YAT-AMA-R6-FD-2	SM2540C	TDS	436	mg/L	UB	Blank contamination
	YAT-YGWC-41	SM2540C	TDS	266	mg/L	UB	Blank contamination
	YAT-YAMW-4	SM2540C	TDS	416	mg/L	UB	Blank contamination
	YAT-YGWC-43	USEPA 300.0	Fluoride	0.062	mg/L	J	MS %R, MSD %R
	YAT-YAMW-2	SW846 6020B	Boron	0.040	mg/L	UB	Blank contamination
92683386	YAT-YGWC-41	SW846 9320	Radium-228	0.892 +/- 0.386	pCi/L	J	Blank contamination
	YAT-YGWC-50	SW846 9320	Radium-228	0.666 +/- 0.372	pCi/L	J	Blank contamination

Abbreviations:

%R = percent recovery

mg/L = milligrams per liter

MS = matrix spike
MSD = matrix spike duplicate
pCi/L = picoCuries per liter

Qualifiers:

J = estimated result

UB = not detected due to blank contamination

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

September 12, 2023

Lauren Hartley
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Plant Yates AMA-R6
Pace Project No.: 92683384

Dear Lauren Hartley:

Enclosed are the analytical results for sample(s) received by the laboratory between August 17, 2023 and August 18, 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)875-9092
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: Plant Yates AMA-R6
Pace Project No.: 92683384

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

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92683384001	**YAT-YGWC-23S**	Water	08/16/23 12:05	08/17/23 09:55
92683384002	**YAT-YGWC-38**	Water	08/16/23 10:20	08/17/23 09:55
92683384003	**YAT-AMA-R6-FD-2**	Water	08/16/23 00:00	08/17/23 09:55
92683384004	**YAT-YGWC-41**	Water	08/16/23 14:55	08/17/23 09:55
92683384005	**YAT-YAMW-4**	Water	08/16/23 16:48	08/17/23 09:55
92683384006	**YAT-YAMW-5**	Water	08/16/23 13:08	08/17/23 09:55
92683384007	**YAT-AMA-R6-EB-2**	Water	08/16/23 17:30	08/17/23 09:55
92683384008	**YAT-AMA-R6-FB-2**	Water	08/16/23 10:55	08/17/23 09:55
92683384009	**YAT-YGWC-42**	Water	08/16/23 17:59	08/17/23 09:55
92683384010	**YAT-YGWC-43**	Water	08/16/23 11:58	08/17/23 09:55
92683384011	**YAT-YAMW-3**	Water	08/16/23 16:40	08/17/23 09:55
92683384012	**YAT-PZ-51**	Water	08/16/23 10:47	08/17/23 09:55
92683384013	**YAT-AMA-R6-EB-1**	Water	08/16/23 17:53	08/17/23 09:55
92683384014	**YAT-YAMW-1**	Water	08/16/23 10:55	08/17/23 09:55
92683384015	**YAT-AMA-FD-1**	Water	08/16/23 00:00	08/17/23 09:55
92683384016	**YAT-YGWC-36A**	Water	08/16/23 17:35	08/17/23 09:55
92683384017	**YAT-YGWC-49**	Water	08/16/23 16:18	08/17/23 09:55
92683384018	**YAT-PZ-35**	Water	08/16/23 12:04	08/17/23 09:55
92683384019	**YAT-YGWC-24SB**	Water	08/16/23 15:03	08/17/23 09:55
92683384020	**YAT-PZ-37D**	Water	08/16/23 17:20	08/17/23 09:55
92683384021	**YAT-PZ-37**	Water	08/17/23 10:20	08/18/23 11:05
92683384022	**YAT-AMA-R6-FD-3**	Water	08/17/23 00:00	08/18/23 11:05
92683384023	**YAT-PZ-52D**	Water	08/17/23 14:20	08/18/23 11:05
92683384024	**YAT-AMA-R6-FB-1**	Water	08/17/23 11:55	08/18/23 11:05
92683384025	**YAT-YAMW-2**	Water	08/17/23 12:30	08/18/23 11:05
92683384026	**YAT-YGWC-50**	Water	08/17/23 11:50	08/18/23 11:05

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92683384001	**YAT-YGWC-23S**	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	MT1	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92683384002	**YAT-YGWC-38**	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	MT1	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92683384003	**YAT-AMA-R6-FD-2**	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	MT1	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92683384004	**YAT-YGWC-41**	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	MT1	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92683384005	**YAT-YAMW-4**	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	MT1	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92683384006	**YAT-YAMW-5**	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	MT1	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92683384007	**YAT-AMA-R6-EB-2**	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	MT1	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92683384008	**YAT-AMA-R6-FB-2**	EPA 6010D	MS	1
		EPA 6020B	CW1	13

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	MT1	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92683384009	**YAT-YGWC-42**	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	MT1	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92683384010	**YAT-YGWC-43**	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	MT1	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92683384011	**YAT-YAMW-3**	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	MT1	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92683384012	**YAT-PZ-51**	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	MT1	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92683384013	**YAT-AMA-R6-EB-1**	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		SM 2540C-2015	DL1	1
		EPA 7470A	BM	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92683384014	**YAT-YAMW-1**	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		SM 2540C-2015	DL1	1
		EPA 7470A	BM	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92683384015	**YAT-AMA-FD-1**	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		SM 2540C-2015	DL1	1
		EPA 7470A	BM	1

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 300.0 Rev 2.1 1993	JCM	3
92683384016	**YAT-YGWC-36A**	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		SM 2540C-2015	DL1	1
		EPA 7470A	BM	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92683384017	**YAT-YGWC-49**	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		SM 2540C-2015	DL1	1
		EPA 7470A	BM	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92683384018	**YAT-PZ-35**	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		SM 2540C-2015	DL1	1
		EPA 7470A	BM	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92683384019	**YAT-YGWC-24SB**	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		SM 2540C-2015	DL1	1
		EPA 7470A	BM	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92683384020	**YAT-PZ-37D**	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		SM 2540C-2015	DL1	1
		EPA 7470A	BM	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92683384021	**YAT-PZ-37**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		SM 2540C-2015	DL1	1
		EPA 7470A	BM	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92683384022	**YAT-AMA-R6-FD-3**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		SM 2540C-2015	DL1	1
		EPA 7470A	BM	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92683384023	**YAT-PZ-52D**	EPA 6010D	DRB	1

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SAMPLE ANALYTE COUNT

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 6020B	CW1	13
		SM 2540C-2015	DL1	1
		EPA 7470A	BM	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92683384024	**YAT-AMA-R6-FB-1**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		SM 2540C-2015	DL1	1
		EPA 7470A	BM	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92683384025	**YAT-YAMW-2**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		SM 2540C-2015	DL1	1
		EPA 7470A	BM	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92683384026	**YAT-YGWC-50**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		SM 2540C-2015	DL1	1
		EPA 7470A	BM	1
		EPA 300.0 Rev 2.1 1993	CDC	3

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

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SUMMARY OF DETECTION

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92683384001	**YAT-YGWC-23S**					
EPA 6010D	Calcium	11.2	mg/L	1.0	08/29/23 23:11	M1
EPA 6020B	Barium	0.052	mg/L	0.0050	08/28/23 19:51	
EPA 6020B	Beryllium	0.00020J	mg/L	0.00050	08/28/23 19:51	
EPA 6020B	Boron	1.2	mg/L	0.040	08/28/23 19:51	
EPA 6020B	Lithium	0.0024J	mg/L	0.030	08/28/23 19:51	
EPA 6020B	Selenium	0.030	mg/L	0.0050	08/28/23 19:51	
SM 2540C-2015	Total Dissolved Solids	170	mg/L	25.0	08/22/23 16:01	
EPA 300.0 Rev 2.1 1993	Chloride	2.7	mg/L	1.0	08/19/23 21:13	
EPA 300.0 Rev 2.1 1993	Sulfate	69.3	mg/L	1.0	08/19/23 21:13	
92683384002	**YAT-YGWC-38**					
EPA 6010D	Calcium	50.9	mg/L	1.0	08/29/23 23:42	
EPA 6020B	Barium	0.015	mg/L	0.0050	08/28/23 20:09	
EPA 6020B	Beryllium	0.0018	mg/L	0.00050	08/28/23 20:09	
EPA 6020B	Boron	3.7	mg/L	0.040	08/28/23 20:09	
EPA 6020B	Cadmium	0.00074	mg/L	0.00050	08/28/23 20:09	
EPA 6020B	Lithium	0.0058J	mg/L	0.030	08/28/23 20:09	
EPA 6020B	Selenium	0.053	mg/L	0.0050	08/28/23 20:09	
SM 2540C-2015	Total Dissolved Solids	460	mg/L	25.0	08/22/23 16:01	
EPA 300.0 Rev 2.1 1993	Chloride	3.7	mg/L	1.0	08/19/23 21:28	
EPA 300.0 Rev 2.1 1993	Sulfate	227	mg/L	5.0	08/20/23 04:40	
92683384003	**YAT-AMA-R6-FD-2**					
EPA 6010D	Calcium	49.9	mg/L	1.0	08/29/23 23:47	
EPA 6020B	Barium	0.016	mg/L	0.0050	08/28/23 20:15	
EPA 6020B	Beryllium	0.0018	mg/L	0.00050	08/28/23 20:15	
EPA 6020B	Boron	3.7	mg/L	0.040	08/28/23 20:15	
EPA 6020B	Cadmium	0.00070	mg/L	0.00050	08/28/23 20:15	
EPA 6020B	Lithium	0.0057J	mg/L	0.030	08/28/23 20:15	
EPA 6020B	Selenium	0.051	mg/L	0.0050	08/28/23 20:15	
SM 2540C-2015	Total Dissolved Solids	436	mg/L	25.0	08/22/23 16:02	
EPA 300.0 Rev 2.1 1993	Chloride	3.7	mg/L	1.0	08/19/23 21:43	
EPA 300.0 Rev 2.1 1993	Sulfate	226	mg/L	5.0	08/20/23 04:55	
92683384004	**YAT-YGWC-41**					
EPA 6010D	Calcium	13.5	mg/L	1.0	08/29/23 23:52	
EPA 6020B	Barium	0.020	mg/L	0.0050	08/28/23 20:21	
EPA 6020B	Beryllium	0.0012	mg/L	0.00050	08/28/23 20:21	
EPA 6020B	Boron	3.1	mg/L	0.040	08/28/23 20:21	
EPA 6020B	Lithium	0.0021J	mg/L	0.030	08/28/23 20:21	
EPA 6020B	Selenium	0.023	mg/L	0.0050	08/28/23 20:21	
SM 2540C-2015	Total Dissolved Solids	266	mg/L	25.0	08/22/23 16:02	
EPA 300.0 Rev 2.1 1993	Chloride	3.7	mg/L	1.0	08/19/23 21:57	
EPA 300.0 Rev 2.1 1993	Sulfate	104	mg/L	2.0	08/20/23 05:12	
92683384005	**YAT-YAMW-4**					
EPA 6010D	Calcium	11.9	mg/L	1.0	08/29/23 23:57	
EPA 6020B	Barium	0.0031J	mg/L	0.0050	08/28/23 20:27	
EPA 6020B	Boron	3.2	mg/L	0.040	08/28/23 20:27	

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SUMMARY OF DETECTION

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92683384005	**YAT-YAMW-4**					
EPA 6020B	Lithium	0.033	mg/L	0.030	08/28/23 20:27	
EPA 6020B	Molybdenum	0.0074J	mg/L	0.010	08/28/23 20:27	
EPA 6020B	Selenium	0.019	mg/L	0.0050	08/28/23 20:27	
SM 2540C-2015	Total Dissolved Solids	416	mg/L	25.0	08/22/23 16:03	
EPA 300.0 Rev 2.1 1993	Chloride	1.4	mg/L	1.0	08/19/23 22:12	
EPA 300.0 Rev 2.1 1993	Sulfate	177	mg/L	4.0	08/20/23 06:12	
92683384006	**YAT-YAMW-5**					
EPA 6010D	Calcium	51.0	mg/L	1.0	08/30/23 00:03	
EPA 6020B	Barium	0.036	mg/L	0.0050	08/28/23 20:33	
EPA 6020B	Beryllium	0.00011J	mg/L	0.00050	08/28/23 20:33	
EPA 6020B	Boron	6.4	mg/L	0.040	08/28/23 20:33	
EPA 6020B	Cadmium	0.00022J	mg/L	0.00050	08/28/23 20:33	
EPA 6020B	Lithium	0.014J	mg/L	0.030	08/28/23 20:33	
EPA 6020B	Selenium	0.054	mg/L	0.0050	08/28/23 20:33	
SM 2540C-2015	Total Dissolved Solids	716	mg/L	25.0	08/22/23 16:04	
EPA 300.0 Rev 2.1 1993	Chloride	3.6	mg/L	1.0	08/19/23 22:27	
EPA 300.0 Rev 2.1 1993	Sulfate	343	mg/L	7.0	08/20/23 06:26	
92683384007	**YAT-AMA-R6-EB-2**					
EPA 6020B	Boron	0.079	mg/L	0.040	08/28/23 20:39	
SM 2540C-2015	Total Dissolved Solids	97.0	mg/L	25.0	08/22/23 16:04	
92683384008	**YAT-AMA-R6-FB-2**					
EPA 6020B	Boron	0.030J	mg/L	0.040	08/28/23 20:45	
92683384009	**YAT-YGWC-42**					
EPA 6010D	Calcium	69.2	mg/L	1.0	08/30/23 00:18	
EPA 6020B	Barium	0.024	mg/L	0.0050	08/29/23 22:48	
EPA 6020B	Beryllium	0.000057J	mg/L	0.00050	08/29/23 22:48	
EPA 6020B	Boron	7.1	mg/L	1.0	09/01/23 15:29	
EPA 6020B	Cobalt	0.0014J	mg/L	0.0050	08/29/23 22:48	
EPA 6020B	Lithium	0.054	mg/L	0.030	08/29/23 22:48	
EPA 6020B	Molybdenum	0.00096J	mg/L	0.010	08/29/23 22:48	
EPA 6020B	Selenium	0.019	mg/L	0.0050	08/29/23 22:48	
SM 2540C-2015	Total Dissolved Solids	904	mg/L	25.0	08/22/23 16:05	
EPA 300.0 Rev 2.1 1993	Chloride	2.8	mg/L	1.0	08/19/23 23:12	
EPA 300.0 Rev 2.1 1993	Sulfate	451	mg/L	9.0	08/20/23 06:41	
92683384010	**YAT-YGWC-43**					
EPA 6010D	Calcium	10.7	mg/L	1.0	08/30/23 00:34	
EPA 6020B	Antimony	0.0026J	mg/L	0.0030	08/29/23 23:12	
EPA 6020B	Barium	0.029	mg/L	0.0050	08/29/23 23:12	
EPA 6020B	Beryllium	0.00034J	mg/L	0.00050	08/29/23 23:12	
EPA 6020B	Boron	2.8	mg/L	0.40	09/01/23 15:42	
EPA 6020B	Cobalt	0.00046J	mg/L	0.0050	08/29/23 23:12	
EPA 6020B	Lithium	0.015J	mg/L	0.030	08/29/23 23:12	
EPA 6020B	Molybdenum	0.0019J	mg/L	0.010	08/29/23 23:12	
SM 2540C-2015	Total Dissolved Solids	356	mg/L	25.0	08/22/23 16:06	

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SUMMARY OF DETECTION

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92683384010	**YAT-YGWC-43**					
EPA 300.0 Rev 2.1 1993	Chloride	2.3	mg/L	1.0	08/19/23 23:57	
EPA 300.0 Rev 2.1 1993	Fluoride	0.062J	mg/L	0.10	08/19/23 23:57	M1
EPA 300.0 Rev 2.1 1993	Sulfate	151	mg/L	3.0	08/20/23 06:57	M1
92683384011	**YAT-YAMW-3**					
EPA 6010D	Calcium	21.4	mg/L	1.0	08/30/23 00:39	
EPA 6020B	Barium	0.026	mg/L	0.0050	08/29/23 23:18	
EPA 6020B	Beryllium	0.00017J	mg/L	0.00050	08/29/23 23:18	
EPA 6020B	Boron	5.0	mg/L	0.40	09/01/23 15:46	
EPA 6020B	Cadmium	0.00048J	mg/L	0.00050	08/29/23 23:18	
EPA 6020B	Cobalt	0.14	mg/L	0.0050	08/29/23 23:18	
EPA 6020B	Lithium	0.040	mg/L	0.030	08/29/23 23:18	
EPA 6020B	Molybdenum	0.0084J	mg/L	0.010	08/29/23 23:18	
EPA 6020B	Selenium	0.0075	mg/L	0.0050	08/29/23 23:18	
SM 2540C-2015	Total Dissolved Solids	587	mg/L	25.0	08/22/23 16:06	
EPA 300.0 Rev 2.1 1993	Chloride	2.2	mg/L	1.0	08/20/23 00:42	
EPA 300.0 Rev 2.1 1993	Fluoride	0.081J	mg/L	0.10	08/20/23 00:42	
EPA 300.0 Rev 2.1 1993	Sulfate	240	mg/L	5.0	08/20/23 07:42	
92683384012	**YAT-PZ-51**					
EPA 6010D	Calcium	52.0	mg/L	1.0	08/30/23 00:44	
EPA 6020B	Barium	0.014	mg/L	0.0050	08/29/23 23:24	
EPA 6020B	Beryllium	0.0028	mg/L	0.00050	08/29/23 23:24	
EPA 6020B	Boron	7.1	mg/L	0.40	09/01/23 15:50	
EPA 6020B	Cadmium	0.0017	mg/L	0.00050	08/29/23 23:24	
EPA 6020B	Cobalt	0.0056	mg/L	0.0050	08/29/23 23:24	
EPA 6020B	Lithium	0.0048J	mg/L	0.030	08/29/23 23:24	
EPA 6020B	Selenium	0.024	mg/L	0.0050	08/29/23 23:24	
SM 2540C-2015	Total Dissolved Solids	612	mg/L	25.0	08/22/23 16:07	
EPA 300.0 Rev 2.1 1993	Chloride	4.1	mg/L	1.0	08/20/23 00:57	
EPA 300.0 Rev 2.1 1993	Fluoride	0.097J	mg/L	0.10	08/20/23 00:57	
EPA 300.0 Rev 2.1 1993	Sulfate	309	mg/L	7.0	08/20/23 07:56	
92683384013	**YAT-AMA-R6-EB-1**					
EPA 6020B	Boron	0.0096J	mg/L	0.040	08/31/23 15:29	
92683384014	**YAT-YAMW-1**					
EPA 6010D	Calcium	28.7	mg/L	1.0	08/30/23 00:54	
EPA 6020B	Barium	0.092	mg/L	0.0050	08/29/23 23:47	
EPA 6020B	Beryllium	0.00028J	mg/L	0.00050	08/29/23 23:47	
EPA 6020B	Boron	0.55	mg/L	0.040	09/01/23 15:54	
EPA 6020B	Cadmium	0.00021J	mg/L	0.00050	08/29/23 23:47	
EPA 6020B	Cobalt	0.0027J	mg/L	0.0050	08/29/23 23:47	
EPA 6020B	Lithium	0.016J	mg/L	0.030	08/29/23 23:47	
EPA 6020B	Selenium	0.0046J	mg/L	0.0050	08/29/23 23:47	
SM 2540C-2015	Total Dissolved Solids	363	mg/L	25.0	08/22/23 16:08	
EPA 300.0 Rev 2.1 1993	Chloride	4.9	mg/L	1.0	08/20/23 01:27	
EPA 300.0 Rev 2.1 1993	Sulfate	151	mg/L	3.0	08/20/23 08:12	

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SUMMARY OF DETECTION

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92683384015	**YAT-AMA-FD-1**					
EPA 6010D	Calcium	27.3	mg/L	1.0	08/30/23 00:59	
EPA 6020B	Barium	0.090	mg/L	0.0050	08/29/23 23:53	
EPA 6020B	Beryllium	0.00030J	mg/L	0.00050	08/29/23 23:53	
EPA 6020B	Boron	0.54	mg/L	0.040	09/01/23 15:58	
EPA 6020B	Cadmium	0.00023J	mg/L	0.00050	08/29/23 23:53	
EPA 6020B	Cobalt	0.0025J	mg/L	0.0050	08/29/23 23:53	
EPA 6020B	Lithium	0.016J	mg/L	0.030	08/29/23 23:53	
EPA 6020B	Selenium	0.0042J	mg/L	0.0050	08/29/23 23:53	
SM 2540C-2015	Total Dissolved Solids	358	mg/L	25.0	08/22/23 16:08	
EPA 300.0 Rev 2.1 1993	Chloride	4.9	mg/L	1.0	08/20/23 01:42	
EPA 300.0 Rev 2.1 1993	Sulfate	154	mg/L	3.0	08/20/23 08:27	
92683384016	**YAT-YGWC-36A**					
EPA 6010D	Calcium	20.0	mg/L	1.0	08/30/23 01:05	
EPA 6020B	Barium	0.19	mg/L	0.0050	08/29/23 23:59	
EPA 6020B	Beryllium	0.0011	mg/L	0.00050	08/29/23 23:59	
EPA 6020B	Boron	0.058	mg/L	0.040	09/01/23 16:03	
EPA 6020B	Lithium	0.0014J	mg/L	0.030	08/29/23 23:59	
EPA 6020B	Selenium	0.0032J	mg/L	0.0050	08/29/23 23:59	
SM 2540C-2015	Total Dissolved Solids	234	mg/L	25.0	08/22/23 16:09	
EPA 300.0 Rev 2.1 1993	Chloride	4.9	mg/L	1.0	08/20/23 01:57	
EPA 300.0 Rev 2.1 1993	Sulfate	93.9	mg/L	1.0	08/20/23 01:57	
92683384017	**YAT-YGWC-49**					
EPA 6010D	Calcium	11.1	mg/L	1.0	08/30/23 01:10	
EPA 6020B	Barium	0.058	mg/L	0.0050	08/30/23 00:05	
EPA 6020B	Beryllium	0.00011J	mg/L	0.00050	08/30/23 00:05	
EPA 6020B	Boron	0.012J	mg/L	0.040	08/30/23 00:05	
EPA 6020B	Chromium	0.0017J	mg/L	0.0050	08/30/23 00:05	
EPA 6020B	Lithium	0.0030J	mg/L	0.030	08/30/23 00:05	
EPA 6020B	Selenium	0.0062	mg/L	0.0050	08/30/23 00:05	
SM 2540C-2015	Total Dissolved Solids	159	mg/L	25.0	08/23/23 17:29	
EPA 300.0 Rev 2.1 1993	Chloride	3.8	mg/L	1.0	08/20/23 02:12	
EPA 300.0 Rev 2.1 1993	Sulfate	63.8	mg/L	1.0	08/20/23 02:12	
92683384018	**YAT-PZ-35**					
EPA 6010D	Calcium	21.5	mg/L	1.0	08/30/23 01:15	
EPA 6020B	Barium	0.18	mg/L	0.0050	08/30/23 00:11	
EPA 6020B	Beryllium	0.0011	mg/L	0.00050	08/30/23 00:11	
EPA 6020B	Boron	0.13	mg/L	0.040	09/01/23 16:19	
EPA 6020B	Cadmium	0.00020J	mg/L	0.00050	08/30/23 00:11	
EPA 6020B	Lithium	0.0026J	mg/L	0.030	08/30/23 00:11	
EPA 6020B	Selenium	0.0039J	mg/L	0.0050	08/30/23 00:11	
SM 2540C-2015	Total Dissolved Solids	256	mg/L	25.0	08/23/23 17:29	
EPA 300.0 Rev 2.1 1993	Chloride	4.9	mg/L	1.0	08/20/23 02:57	
EPA 300.0 Rev 2.1 1993	Sulfate	107	mg/L	2.0	08/20/23 09:30	
92683384019	**YAT-YGWC-24SB**					
EPA 6010D	Calcium	2.2	mg/L	1.0	08/30/23 01:21	

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SUMMARY OF DETECTION

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92683384019	**YAT-YGWC-24SB**					
EPA 6020B	Barium	0.025	mg/L	0.0050	08/30/23 00:17	
EPA 6020B	Beryllium	0.000096J	mg/L	0.00050	08/30/23 00:17	
SM 2540C-2015	Total Dissolved Solids	68.0	mg/L	25.0	08/23/23 17:29	
EPA 300.0 Rev 2.1 1993	Chloride	8.1	mg/L	1.0	08/20/23 03:12	
92683384020	**YAT-PZ-37D**					
EPA 6010D	Calcium	67.5	mg/L	1.0	08/30/23 01:36	
EPA 6020B	Barium	0.021	mg/L	0.0050	08/30/23 00:23	
EPA 6020B	Boron	0.75	mg/L	0.040	09/01/23 16:23	
EPA 6020B	Lithium	0.0095J	mg/L	0.030	08/30/23 00:23	
EPA 6020B	Molybdenum	0.0040J	mg/L	0.010	08/30/23 00:23	
SM 2540C-2015	Total Dissolved Solids	505	mg/L	25.0	08/23/23 17:30	
EPA 300.0 Rev 2.1 1993	Chloride	14.8	mg/L	1.0	08/19/23 13:31	
EPA 300.0 Rev 2.1 1993	Fluoride	0.23	mg/L	0.10	08/19/23 13:31	
EPA 300.0 Rev 2.1 1993	Sulfate	210	mg/L	4.0	08/20/23 03:33	M1
92683384021	**YAT-PZ-37**					
EPA 6010D	Calcium	101	mg/L	1.0	08/31/23 00:34	
EPA 6020B	Barium	0.023	mg/L	0.0050	08/30/23 00:29	
EPA 6020B	Beryllium	0.0012	mg/L	0.00050	08/30/23 00:29	
EPA 6020B	Boron	9.5	mg/L	0.40	09/01/23 16:27	
EPA 6020B	Cadmium	0.00085	mg/L	0.00050	08/30/23 00:29	
EPA 6020B	Cobalt	0.0027J	mg/L	0.0050	08/30/23 00:29	
EPA 6020B	Lithium	0.016J	mg/L	0.030	08/30/23 00:29	
EPA 6020B	Selenium	0.15	mg/L	0.0050	08/30/23 00:29	
SM 2540C-2015	Total Dissolved Solids	938	mg/L	25.0	08/23/23 17:34	
EPA 300.0 Rev 2.1 1993	Chloride	4.1	mg/L	1.0	08/23/23 03:15	
EPA 300.0 Rev 2.1 1993	Sulfate	459	mg/L	9.0	08/23/23 08:55	
92683384022	**YAT-AMA-R6-FD-3**					
EPA 6010D	Calcium	101	mg/L	1.0	08/31/23 00:50	
EPA 6020B	Barium	0.023	mg/L	0.0050	08/30/23 00:35	
EPA 6020B	Beryllium	0.0012	mg/L	0.00050	08/30/23 00:35	
EPA 6020B	Boron	9.4	mg/L	0.40	09/01/23 16:31	
EPA 6020B	Cadmium	0.00084	mg/L	0.00050	08/30/23 00:35	
EPA 6020B	Cobalt	0.0020J	mg/L	0.0050	08/30/23 00:35	
EPA 6020B	Lithium	0.015J	mg/L	0.030	08/30/23 00:35	
EPA 6020B	Selenium	0.15	mg/L	0.0050	08/30/23 00:35	
SM 2540C-2015	Total Dissolved Solids	941	mg/L	25.0	08/23/23 17:35	
EPA 300.0 Rev 2.1 1993	Chloride	4.3	mg/L	1.0	08/23/23 03:30	
EPA 300.0 Rev 2.1 1993	Sulfate	469	mg/L	10.0	08/23/23 09:09	
92683384023	**YAT-PZ-52D**					
EPA 6010D	Calcium	22.1	mg/L	1.0	08/31/23 00:55	
EPA 6020B	Barium	0.011	mg/L	0.0050	08/30/23 00:41	
EPA 6020B	Beryllium	0.000086J	mg/L	0.00050	08/30/23 00:41	
EPA 6020B	Boron	1.9	mg/L	0.40	09/01/23 16:35	
EPA 6020B	Cobalt	0.0031J	mg/L	0.0050	08/30/23 00:41	
EPA 6020B	Lead	0.0014	mg/L	0.0010	08/30/23 00:41	

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SUMMARY OF DETECTION

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92683384023	**YAT-PZ-52D**					
EPA 6020B	Lithium	0.029J	mg/L	0.030	08/30/23 00:41	
EPA 6020B	Molybdenum	0.0030J	mg/L	0.010	08/30/23 00:41	
EPA 6020B	Selenium	0.011	mg/L	0.0050	08/30/23 00:41	
SM 2540C-2015	Total Dissolved Solids	600	mg/L	25.0	08/23/23 17:35	
EPA 300.0 Rev 2.1 1993	Chloride	1.8	mg/L	1.0	08/23/23 04:14	
EPA 300.0 Rev 2.1 1993	Fluoride	0.059J	mg/L	0.10	08/23/23 04:14	
EPA 300.0 Rev 2.1 1993	Sulfate	289	mg/L	6.0	08/23/23 09:24	
92683384024	**YAT-AMA-R6-FB-1**					
EPA 6020B	Boron	0.016J	mg/L	0.040	08/30/23 00:59	
92683384025	**YAT-YAMW-2**					
EPA 6010D	Calcium	1.4	mg/L	1.0	08/31/23 01:05	
EPA 6020B	Barium	0.0092	mg/L	0.0050	08/30/23 01:05	
EPA 6020B	Beryllium	0.000069J	mg/L	0.00050	08/30/23 01:05	
EPA 6020B	Boron	0.040	mg/L	0.040	09/01/23 16:43	
EPA 6020B	Cobalt	0.0053	mg/L	0.0050	08/30/23 01:05	
SM 2540C-2015	Total Dissolved Solids	55.0	mg/L	25.0	08/24/23 14:16	
EPA 300.0 Rev 2.1 1993	Chloride	2.7	mg/L	1.0	08/23/23 05:14	
EPA 300.0 Rev 2.1 1993	Sulfate	6.6	mg/L	1.0	08/23/23 05:14	
92683384026	**YAT-YGWC-50**					
EPA 6010D	Calcium	229	mg/L	5.0	08/31/23 01:16	
EPA 6020B	Barium	0.022	mg/L	0.0050	08/30/23 01:17	
EPA 6020B	Beryllium	0.0047	mg/L	0.00050	08/30/23 01:17	
EPA 6020B	Boron	20.1	mg/L	0.20	09/01/23 16:48	
EPA 6020B	Cadmium	0.018	mg/L	0.00050	08/30/23 01:17	
EPA 6020B	Cobalt	0.0086	mg/L	0.0050	08/30/23 01:17	
EPA 6020B	Lead	0.00020J	mg/L	0.0010	08/30/23 01:17	
EPA 6020B	Lithium	0.0033J	mg/L	0.030	08/30/23 01:17	
EPA 6020B	Selenium	0.0018J	mg/L	0.0050	08/30/23 01:17	
SM 2540C-2015	Total Dissolved Solids	2010	mg/L	25.0	08/24/23 14:17	
EPA 300.0 Rev 2.1 1993	Chloride	9.4	mg/L	1.0	08/23/23 05:28	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	08/23/23 05:28	
EPA 300.0 Rev 2.1 1993	Sulfate	1140	mg/L	22.0	08/23/23 10:08	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

Sample: YAT-YGWC-23S **Lab ID: 92683384001** Collected: 08/16/23 12:05 Received: 08/17/23 09:55 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	**11.2**	mg/L	1.0	0.12	1	08/29/23 14:36	08/29/23 23:11	7440-70-2	M1
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	08/24/23 10:16	08/28/23 19:51	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/24/23 10:16	08/28/23 19:51	7440-38-2	
Barium	**0.052**	mg/L	0.0050	0.00067	1	08/24/23 10:16	08/28/23 19:51	7440-39-3	
Beryllium	**0.00020J**	mg/L	0.00050	0.000054	1	08/24/23 10:16	08/28/23 19:51	7440-41-7	
Boron	**1.2**	mg/L	0.040	0.0086	1	08/24/23 10:16	08/28/23 19:51	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/24/23 10:16	08/28/23 19:51	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/24/23 10:16	08/28/23 19:51	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/24/23 10:16	08/28/23 19:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/24/23 10:16	08/28/23 19:51	7439-92-1	
Lithium	**0.0024J**	mg/L	0.030	0.00073	1	08/24/23 10:16	08/28/23 19:51	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/24/23 10:16	08/28/23 19:51	7439-98-7	
Selenium	**0.030**	mg/L	0.0050	0.0014	1	08/24/23 10:16	08/28/23 19:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/24/23 10:16	08/28/23 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	08/28/23 10:00	08/28/23 13:18	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**170**	mg/L	25.0	25.0	1		08/22/23 16:01		
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		08/19/23 21:13	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/19/23 21:13	16984-48-8	
Sulfate	**69.3**	mg/L	1.0	0.50	1		08/19/23 21:13	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

Sample: YAT-YGWC-38 **Lab ID: 92683384002** Collected: 08/16/23 10:20 Received: 08/17/23 09:55 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	**50.9**	mg/L	1.0	0.12	1	08/29/23 14:36	08/29/23 23:42	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	0.0012	1	08/24/23 10:16	08/28/23 20:09	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/24/23 10:16	08/28/23 20:09	7440-38-2	
Barium	**0.015**	mg/L	0.0050	0.00067	1	08/24/23 10:16	08/28/23 20:09	7440-39-3	
Beryllium	**0.0018**	mg/L	0.00050	0.000054	1	08/24/23 10:16	08/28/23 20:09	7440-41-7	
Boron	**3.7**	mg/L	0.040	0.0086	1	08/24/23 10:16	08/28/23 20:09	7440-42-8	
Cadmium	**0.00074**	mg/L	0.00050	0.00011	1	08/24/23 10:16	08/28/23 20:09	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/24/23 10:16	08/28/23 20:09	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/24/23 10:16	08/28/23 20:09	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/24/23 10:16	08/28/23 20:09	7439-92-1	
Lithium	**0.0058J**	mg/L	0.030	0.00073	1	08/24/23 10:16	08/28/23 20:09	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/24/23 10:16	08/28/23 20:09	7439-98-7	
Selenium	**0.053**	mg/L	0.0050	0.0014	1	08/24/23 10:16	08/28/23 20:09	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/24/23 10:16	08/28/23 20:09	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	08/28/23 10:00	08/28/23 13:26	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**460**	mg/L	25.0	25.0	1		08/22/23 16:01		
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		08/19/23 21:28	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/19/23 21:28	16984-48-8	
Sulfate	**227**	mg/L	5.0	2.5	5		08/20/23 04:40	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

Sample: YAT-AMA-R6-FD-2 **Lab ID: 92683384003** Collected: 08/16/23 00:00 Received: 08/17/23 09:55 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	**49.9**	mg/L	1.0	0.12	1	08/29/23 14:36	08/29/23 23:47	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	08/24/23 10:16	08/28/23 20:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/24/23 10:16	08/28/23 20:15	7440-38-2	
Barium	**0.016**	mg/L	0.0050	0.00067	1	08/24/23 10:16	08/28/23 20:15	7440-39-3	
Beryllium	**0.0018**	mg/L	0.00050	0.000054	1	08/24/23 10:16	08/28/23 20:15	7440-41-7	
Boron	**3.7**	mg/L	0.040	0.0086	1	08/24/23 10:16	08/28/23 20:15	7440-42-8	
Cadmium	**0.00070**	mg/L	0.00050	0.00011	1	08/24/23 10:16	08/28/23 20:15	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/24/23 10:16	08/28/23 20:15	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/24/23 10:16	08/28/23 20:15	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/24/23 10:16	08/28/23 20:15	7439-92-1	
Lithium	**0.0057J**	mg/L	0.030	0.00073	1	08/24/23 10:16	08/28/23 20:15	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/24/23 10:16	08/28/23 20:15	7439-98-7	
Selenium	**0.051**	mg/L	0.0050	0.0014	1	08/24/23 10:16	08/28/23 20:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/24/23 10:16	08/28/23 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	08/28/23 10:00	08/28/23 13:28	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**436**	mg/L	25.0	25.0	1		08/22/23 16:02		
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		08/19/23 21:43	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/19/23 21:43	16984-48-8	
Sulfate	**226**	mg/L	5.0	2.5	5		08/20/23 04:55	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

Sample: YAT-YGWC-41 **Lab ID: 92683384004** Collected: 08/16/23 14:55 Received: 08/17/23 09:55 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	**13.5**	mg/L	1.0	0.12	1	08/29/23 14:36	08/29/23 23:52	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	0.0012	1	08/24/23 10:16	08/28/23 20:21	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/24/23 10:16	08/28/23 20:21	7440-38-2	
Barium	**0.020**	mg/L	0.0050	0.00067	1	08/24/23 10:16	08/28/23 20:21	7440-39-3	
Beryllium	**0.0012**	mg/L	0.00050	0.000054	1	08/24/23 10:16	08/28/23 20:21	7440-41-7	
Boron	**3.1**	mg/L	0.040	0.0086	1	08/24/23 10:16	08/28/23 20:21	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/24/23 10:16	08/28/23 20:21	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/24/23 10:16	08/28/23 20:21	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/24/23 10:16	08/28/23 20:21	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/24/23 10:16	08/28/23 20:21	7439-92-1	
Lithium	**0.0021J**	mg/L	0.030	0.00073	1	08/24/23 10:16	08/28/23 20:21	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/24/23 10:16	08/28/23 20:21	7439-98-7	
Selenium	**0.023**	mg/L	0.0050	0.0014	1	08/24/23 10:16	08/28/23 20:21	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/24/23 10:16	08/28/23 20:21	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	08/28/23 10:00	08/28/23 13:31	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**266**	mg/L	25.0	25.0	1		08/22/23 16:02		
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		08/19/23 21:57	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/19/23 21:57	16984-48-8	
Sulfate	**104**	mg/L	2.0	1.0	2		08/20/23 05:12	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

Sample: YAT-YAMW-4 **Lab ID: 92683384005** Collected: 08/16/23 16:48 Received: 08/17/23 09:55 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	**11.9**	mg/L	1.0	0.12	1	08/29/23 14:36	08/29/23 23:57	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	08/24/23 10:16	08/28/23 20:27	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/24/23 10:16	08/28/23 20:27	7440-38-2	
Barium	**0.0031J**	mg/L	0.0050	0.00067	1	08/24/23 10:16	08/28/23 20:27	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/24/23 10:16	08/28/23 20:27	7440-41-7	
Boron	**3.2**	mg/L	0.040	0.0086	1	08/24/23 10:16	08/28/23 20:27	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/24/23 10:16	08/28/23 20:27	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/24/23 10:16	08/28/23 20:27	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/24/23 10:16	08/28/23 20:27	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/24/23 10:16	08/28/23 20:27	7439-92-1	
Lithium	**0.033**	mg/L	0.030	0.00073	1	08/24/23 10:16	08/28/23 20:27	7439-93-2	
Molybdenum	**0.0074J**	mg/L	0.010	0.00074	1	08/24/23 10:16	08/28/23 20:27	7439-98-7	
Selenium	**0.019**	mg/L	0.0050	0.0014	1	08/24/23 10:16	08/28/23 20:27	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/24/23 10:16	08/28/23 20:27	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	08/28/23 10:00	08/28/23 13:33	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**416**	mg/L	25.0	25.0	1		08/22/23 16:03		
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		08/19/23 22:12	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/19/23 22:12	16984-48-8	
Sulfate	**177**	mg/L	4.0	2.0	4		08/20/23 06:12	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

Sample: YAT-YAMW-5 **Lab ID: 92683384006** Collected: 08/16/23 13:08 Received: 08/17/23 09:55 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	**51.0**	mg/L	1.0	0.12	1	08/29/23 14:36	08/30/23 00:03	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	0.0012	1	08/24/23 10:16	08/28/23 20:33	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/24/23 10:16	08/28/23 20:33	7440-38-2	
Barium	**0.036**	mg/L	0.0050	0.00067	1	08/24/23 10:16	08/28/23 20:33	7440-39-3	
Beryllium	**0.00011J**	mg/L	0.00050	0.000054	1	08/24/23 10:16	08/28/23 20:33	7440-41-7	
Boron	**6.4**	mg/L	0.040	0.0086	1	08/24/23 10:16	08/28/23 20:33	7440-42-8	
Cadmium	**0.00022J**	mg/L	0.00050	0.00011	1	08/24/23 10:16	08/28/23 20:33	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/24/23 10:16	08/28/23 20:33	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/24/23 10:16	08/28/23 20:33	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/24/23 10:16	08/28/23 20:33	7439-92-1	
Lithium	**0.014J**	mg/L	0.030	0.00073	1	08/24/23 10:16	08/28/23 20:33	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/24/23 10:16	08/28/23 20:33	7439-98-7	
Selenium	**0.054**	mg/L	0.0050	0.0014	1	08/24/23 10:16	08/28/23 20:33	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/24/23 10:16	08/28/23 20:33	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	08/28/23 10:00	08/28/23 13:36	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**716**	mg/L	25.0	25.0	1		08/22/23 16:04		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.6**	mg/L	1.0	0.60	1		08/19/23 22:27	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/19/23 22:27	16984-48-8	
Sulfate	**343**	mg/L	7.0	3.5	7		08/20/23 06:26	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

Sample: YAT-AMA-R6-EB-2 **Lab ID: 92683384007** Collected: 08/16/23 17:30 Received: 08/17/23 09:55 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	08/29/23 14:36	08/30/23 00:08	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	0.0012	1	08/24/23 10:16	08/28/23 20:39	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/24/23 10:16	08/28/23 20:39	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	08/24/23 10:16	08/28/23 20:39	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/24/23 10:16	08/28/23 20:39	7440-41-7	
Boron	**0.079**	mg/L	0.040	0.0086	1	08/24/23 10:16	08/28/23 20:39	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/24/23 10:16	08/28/23 20:39	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/24/23 10:16	08/28/23 20:39	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/24/23 10:16	08/28/23 20:39	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/24/23 10:16	08/28/23 20:39	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	08/24/23 10:16	08/28/23 20:39	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/24/23 10:16	08/28/23 20:39	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/24/23 10:16	08/28/23 20:39	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/24/23 10:16	08/28/23 20:39	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	08/28/23 10:00	08/28/23 13:39	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**97.0**	mg/L	25.0	25.0	1		08/22/23 16:04		
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		08/19/23 22:42	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/19/23 22:42	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/19/23 22:42	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

Sample: YAT-AMA-R6-FB-2 **Lab ID: 92683384008** Collected: 08/16/23 10:55 Received: 08/17/23 09:55 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	08/29/23 14:36	08/30/23 00:13	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	0.0012	1	08/24/23 10:16	08/28/23 20:45	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/24/23 10:16	08/28/23 20:45	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	08/24/23 10:16	08/28/23 20:45	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/24/23 10:16	08/28/23 20:45	7440-41-7	
Boron	**0.030J**	mg/L	0.040	0.0086	1	08/24/23 10:16	08/28/23 20:45	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/24/23 10:16	08/28/23 20:45	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/24/23 10:16	08/28/23 20:45	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/24/23 10:16	08/28/23 20:45	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/24/23 10:16	08/28/23 20:45	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	08/24/23 10:16	08/28/23 20:45	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/24/23 10:16	08/28/23 20:45	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/24/23 10:16	08/28/23 20:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/24/23 10:16	08/28/23 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	08/28/23 10:00	08/28/23 13:41	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		08/22/23 16:05		
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		08/19/23 22:57	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/19/23 22:57	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/19/23 22:57	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

Sample: YAT-YGWC-42 **Lab ID: 92683384009** Collected: 08/16/23 17:59 Received: 08/17/23 09:55 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	**69.2**	mg/L	1.0	0.12	1	08/29/23 14:36	08/30/23 00:18	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	0.0012	1	08/24/23 11:07	08/29/23 22:48	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/24/23 11:07	08/29/23 22:48	7440-38-2	
Barium	**0.024**	mg/L	0.0050	0.00067	1	08/24/23 11:07	08/29/23 22:48	7440-39-3	
Beryllium	**0.000057J**	mg/L	0.00050	0.000054	1	08/24/23 11:07	08/29/23 22:48	7440-41-7	
Boron	**7.1**	mg/L	1.0	0.22	25	08/24/23 11:07	09/01/23 15:29	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/24/23 11:07	08/29/23 22:48	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/24/23 11:07	08/29/23 22:48	7440-47-3	
Cobalt	**0.0014J**	mg/L	0.0050	0.00039	1	08/24/23 11:07	08/29/23 22:48	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/24/23 11:07	08/29/23 22:48	7439-92-1	
Lithium	**0.054**	mg/L	0.030	0.00073	1	08/24/23 11:07	08/29/23 22:48	7439-93-2	
Molybdenum	**0.00096J**	mg/L	0.010	0.00074	1	08/24/23 11:07	08/29/23 22:48	7439-98-7	
Selenium	**0.019**	mg/L	0.0050	0.0014	1	08/24/23 11:07	08/29/23 22:48	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/24/23 11:07	08/29/23 22:48	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	08/28/23 10:00	08/28/23 13:44	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**904**	mg/L	25.0	25.0	1		08/22/23 16:05		
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		08/19/23 23:12	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/19/23 23:12	16984-48-8	
Sulfate	**451**	mg/L	9.0	4.5	9		08/20/23 06:41	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

Sample: YAT-YGWC-43 **Lab ID: 92683384010** Collected: 08/16/23 11:58 Received: 08/17/23 09:55 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	**10.7**	mg/L	1.0	0.12	1	08/29/23 14:36	08/30/23 00:34	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0026J**	mg/L	0.0030	0.0012	1	08/24/23 11:07	08/29/23 23:12	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/24/23 11:07	08/29/23 23:12	7440-38-2	
Barium	**0.029**	mg/L	0.0050	0.00067	1	08/24/23 11:07	08/29/23 23:12	7440-39-3	
Beryllium	**0.00034J**	mg/L	0.00050	0.000054	1	08/24/23 11:07	08/29/23 23:12	7440-41-7	
Boron	**2.8**	mg/L	0.40	0.086	10	08/24/23 11:07	09/01/23 15:42	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/24/23 11:07	08/29/23 23:12	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/24/23 11:07	08/29/23 23:12	7440-47-3	
Cobalt	**0.00046J**	mg/L	0.0050	0.00039	1	08/24/23 11:07	08/29/23 23:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/24/23 11:07	08/29/23 23:12	7439-92-1	
Lithium	**0.015J**	mg/L	0.030	0.00073	1	08/24/23 11:07	08/29/23 23:12	7439-93-2	
Molybdenum	**0.0019J**	mg/L	0.010	0.00074	1	08/24/23 11:07	08/29/23 23:12	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/24/23 11:07	08/29/23 23:12	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/24/23 11:07	08/29/23 23:12	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	08/28/23 10:00	08/28/23 13:47	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**356**	mg/L	25.0	25.0	1		08/22/23 16:06		
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		08/19/23 23:57	16887-00-6	
Fluoride	**0.062J**	mg/L	0.10	0.050	1		08/19/23 23:57	16984-48-8	M1
Sulfate	**151**	mg/L	3.0	1.5	3		08/20/23 06:57	14808-79-8	M1

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

Sample: YAT-YAMW-3 **Lab ID: 92683384011** Collected: 08/16/23 16:40 Received: 08/17/23 09:55 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	**21.4**	mg/L	1.0	0.12	1	08/29/23 14:36	08/30/23 00:39	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	0.0012	1	08/24/23 11:07	08/29/23 23:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/24/23 11:07	08/29/23 23:18	7440-38-2	
Barium	**0.026**	mg/L	0.0050	0.00067	1	08/24/23 11:07	08/29/23 23:18	7440-39-3	
Beryllium	**0.00017J**	mg/L	0.00050	0.000054	1	08/24/23 11:07	08/29/23 23:18	7440-41-7	
Boron	**5.0**	mg/L	0.40	0.086	10	08/24/23 11:07	09/01/23 15:46	7440-42-8	
Cadmium	**0.00048J**	mg/L	0.00050	0.00011	1	08/24/23 11:07	08/29/23 23:18	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/24/23 11:07	08/29/23 23:18	7440-47-3	
Cobalt	**0.14**	mg/L	0.0050	0.00039	1	08/24/23 11:07	08/29/23 23:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/24/23 11:07	08/29/23 23:18	7439-92-1	
Lithium	**0.040**	mg/L	0.030	0.00073	1	08/24/23 11:07	08/29/23 23:18	7439-93-2	
Molybdenum	**0.0084J**	mg/L	0.010	0.00074	1	08/24/23 11:07	08/29/23 23:18	7439-98-7	
Selenium	**0.0075**	mg/L	0.0050	0.0014	1	08/24/23 11:07	08/29/23 23:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/24/23 11:07	08/29/23 23:18	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	08/28/23 10:00	08/28/23 13:54	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**587**	mg/L	25.0	25.0	1		08/22/23 16:06		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.2**	mg/L	1.0	0.60	1		08/20/23 00:42	16887-00-6	
Fluoride	**0.081J**	mg/L	0.10	0.050	1		08/20/23 00:42	16984-48-8	
Sulfate	**240**	mg/L	5.0	2.5	5		08/20/23 07:42	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

Sample: YAT-PZ-51 **Lab ID: 92683384012** Collected: 08/16/23 10:47 Received: 08/17/23 09:55 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	**52.0**	mg/L	1.0	0.12	1	08/29/23 14:36	08/30/23 00:44	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	0.0012	1	08/24/23 11:07	08/29/23 23:24	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/24/23 11:07	08/29/23 23:24	7440-38-2	
Barium	**0.014**	mg/L	0.0050	0.00067	1	08/24/23 11:07	08/29/23 23:24	7440-39-3	
Beryllium	**0.0028**	mg/L	0.00050	0.000054	1	08/24/23 11:07	08/29/23 23:24	7440-41-7	
Boron	**7.1**	mg/L	0.40	0.086	10	08/24/23 11:07	09/01/23 15:50	7440-42-8	
Cadmium	**0.0017**	mg/L	0.00050	0.00011	1	08/24/23 11:07	08/29/23 23:24	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/24/23 11:07	08/29/23 23:24	7440-47-3	
Cobalt	**0.0056**	mg/L	0.0050	0.00039	1	08/24/23 11:07	08/29/23 23:24	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/24/23 11:07	08/29/23 23:24	7439-92-1	
Lithium	**0.0048J**	mg/L	0.030	0.00073	1	08/24/23 11:07	08/29/23 23:24	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/24/23 11:07	08/29/23 23:24	7439-98-7	
Selenium	**0.024**	mg/L	0.0050	0.0014	1	08/24/23 11:07	08/29/23 23:24	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/24/23 11:07	08/29/23 23:24	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	08/28/23 10:00	08/28/23 13:57	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**612**	mg/L	25.0	25.0	1		08/22/23 16:07		
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		08/20/23 00:57	16887-00-6	
Fluoride	**0.097J**	mg/L	0.10	0.050	1		08/20/23 00:57	16984-48-8	
Sulfate	**309**	mg/L	7.0	3.5	7		08/20/23 07:56	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

Sample: YAT-AMA-R6-EB-1 **Lab ID: 92683384013** Collected: 08/16/23 17:53 Received: 08/17/23 09:55 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	08/29/23 14:36	08/30/23 00:49	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	0.0012	1	08/24/23 11:07	08/29/23 23:29	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/24/23 11:07	08/29/23 23:29	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	08/24/23 11:07	08/29/23 23:29	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/24/23 11:07	08/29/23 23:29	7440-41-7	
Boron	**0.0096J**	mg/L	0.040	0.0086	1	08/24/23 11:07	08/31/23 15:29	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/24/23 11:07	08/29/23 23:29	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/24/23 11:07	08/29/23 23:29	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/24/23 11:07	08/29/23 23:29	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/24/23 11:07	08/29/23 23:29	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	08/24/23 11:07	08/29/23 23:29	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/24/23 11:07	08/29/23 23:29	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/24/23 11:07	08/29/23 23:29	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/24/23 11:07	08/29/23 23:29	7440-28-0	
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		08/22/23 16:07		
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	09/09/23 17:08	09/12/23 09:24	7439-97-6	
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		08/20/23 01:12	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/20/23 01:12	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/20/23 01:12	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

Sample: YAT-YAMW-1 **Lab ID: 92683384014** Collected: 08/16/23 10:55 Received: 08/17/23 09:55 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	**28.7**	mg/L	1.0	0.12	1	08/29/23 14:36	08/30/23 00:54	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	0.0012	1	08/24/23 11:07	08/29/23 23:47	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/24/23 11:07	08/29/23 23:47	7440-38-2	
Barium	**0.092**	mg/L	0.0050	0.00067	1	08/24/23 11:07	08/29/23 23:47	7440-39-3	
Beryllium	**0.00028J**	mg/L	0.00050	0.000054	1	08/24/23 11:07	08/29/23 23:47	7440-41-7	
Boron	**0.55**	mg/L	0.040	0.0086	1	08/24/23 11:07	09/01/23 15:54	7440-42-8	
Cadmium	**0.00021J**	mg/L	0.00050	0.00011	1	08/24/23 11:07	08/29/23 23:47	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/24/23 11:07	08/29/23 23:47	7440-47-3	
Cobalt	**0.0027J**	mg/L	0.0050	0.00039	1	08/24/23 11:07	08/29/23 23:47	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/24/23 11:07	08/29/23 23:47	7439-92-1	
Lithium	**0.016J**	mg/L	0.030	0.00073	1	08/24/23 11:07	08/29/23 23:47	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/24/23 11:07	08/29/23 23:47	7439-98-7	
Selenium	**0.0046J**	mg/L	0.0050	0.0014	1	08/24/23 11:07	08/29/23 23:47	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/24/23 11:07	08/29/23 23:47	7440-28-0	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**363**	mg/L	25.0	25.0	1		08/22/23 16:08		
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	09/09/23 17:08	09/12/23 09:31	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.9**	mg/L	1.0	0.60	1		08/20/23 01:27	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/20/23 01:27	16984-48-8	
Sulfate	**151**	mg/L	3.0	1.5	3		08/20/23 08:12	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

Sample: YAT-AMA-FD-1 **Lab ID: 92683384015** Collected: 08/16/23 00:00 Received: 08/17/23 09:55 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	**27.3**	mg/L	1.0	0.12	1	08/29/23 14:36	08/30/23 00:59	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	08/24/23 11:07	08/29/23 23:53	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/24/23 11:07	08/29/23 23:53	7440-38-2	
Barium	**0.090**	mg/L	0.0050	0.00067	1	08/24/23 11:07	08/29/23 23:53	7440-39-3	
Beryllium	**0.00030J**	mg/L	0.00050	0.000054	1	08/24/23 11:07	08/29/23 23:53	7440-41-7	
Boron	**0.54**	mg/L	0.040	0.0086	1	08/24/23 11:07	09/01/23 15:58	7440-42-8	
Cadmium	**0.00023J**	mg/L	0.00050	0.00011	1	08/24/23 11:07	08/29/23 23:53	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/24/23 11:07	08/29/23 23:53	7440-47-3	
Cobalt	**0.0025J**	mg/L	0.0050	0.00039	1	08/24/23 11:07	08/29/23 23:53	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/24/23 11:07	08/29/23 23:53	7439-92-1	
Lithium	**0.016J**	mg/L	0.030	0.00073	1	08/24/23 11:07	08/29/23 23:53	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/24/23 11:07	08/29/23 23:53	7439-98-7	
Selenium	**0.0042J**	mg/L	0.0050	0.0014	1	08/24/23 11:07	08/29/23 23:53	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/24/23 11:07	08/29/23 23:53	7440-28-0	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**358**	mg/L	25.0	25.0	1		08/22/23 16:08		
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	09/09/23 17:08	09/12/23 09:33	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.9**	mg/L	1.0	0.60	1		08/20/23 01:42	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/20/23 01:42	16984-48-8	
Sulfate	**154**	mg/L	3.0	1.5	3		08/20/23 08:27	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

Sample: YAT-YGWC-36A **Lab ID: 92683384016** Collected: 08/16/23 17:35 Received: 08/17/23 09:55 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	**20.0**	mg/L	1.0	0.12	1	08/29/23 14:36	08/30/23 01:05	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	0.0012	1	08/24/23 11:07	08/29/23 23:59	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/24/23 11:07	08/29/23 23:59	7440-38-2	
Barium	**0.19**	mg/L	0.0050	0.00067	1	08/24/23 11:07	08/29/23 23:59	7440-39-3	
Beryllium	**0.0011**	mg/L	0.00050	0.000054	1	08/24/23 11:07	08/29/23 23:59	7440-41-7	
Boron	**0.058**	mg/L	0.040	0.0086	1	08/24/23 11:07	09/01/23 16:03	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/24/23 11:07	08/29/23 23:59	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/24/23 11:07	08/29/23 23:59	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/24/23 11:07	08/29/23 23:59	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/24/23 11:07	08/29/23 23:59	7439-92-1	
Lithium	**0.0014J**	mg/L	0.030	0.00073	1	08/24/23 11:07	08/29/23 23:59	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/24/23 11:07	08/29/23 23:59	7439-98-7	
Selenium	**0.0032J**	mg/L	0.0050	0.0014	1	08/24/23 11:07	08/29/23 23:59	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/24/23 11:07	08/29/23 23:59	7440-28-0	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**234**	mg/L	25.0	25.0	1		08/22/23 16:09		
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	09/09/23 17:08	09/12/23 09:35	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.9**	mg/L	1.0	0.60	1		08/20/23 01:57	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/20/23 01:57	16984-48-8	
Sulfate	**93.9**	mg/L	1.0	0.50	1		08/20/23 01:57	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

Sample: YAT-YGWC-49 **Lab ID: 92683384017** Collected: 08/16/23 16:18 Received: 08/17/23 09:55 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	**11.1**	mg/L	1.0	0.12	1	08/29/23 14:36	08/30/23 01:10	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	0.0012	1	08/24/23 11:07	08/30/23 00:05	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/24/23 11:07	08/30/23 00:05	7440-38-2	
Barium	**0.058**	mg/L	0.0050	0.00067	1	08/24/23 11:07	08/30/23 00:05	7440-39-3	
Beryllium	**0.00011J**	mg/L	0.00050	0.000054	1	08/24/23 11:07	08/30/23 00:05	7440-41-7	
Boron	**0.012J**	mg/L	0.040	0.0086	1	08/24/23 11:07	08/30/23 00:05	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/24/23 11:07	08/30/23 00:05	7440-43-9	
Chromium	**0.0017J**	mg/L	0.0050	0.0011	1	08/24/23 11:07	08/30/23 00:05	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/24/23 11:07	08/30/23 00:05	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/24/23 11:07	08/30/23 00:05	7439-92-1	
Lithium	**0.0030J**	mg/L	0.030	0.00073	1	08/24/23 11:07	08/30/23 00:05	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/24/23 11:07	08/30/23 00:05	7439-98-7	
Selenium	**0.0062**	mg/L	0.0050	0.0014	1	08/24/23 11:07	08/30/23 00:05	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/24/23 11:07	08/30/23 00:05	7440-28-0	
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		08/23/23 17:29		
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	09/09/23 17:08	09/12/23 09:37	7439-97-6	
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		08/20/23 02:12	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/20/23 02:12	16984-48-8	
Sulfate	**63.8**	mg/L	1.0	0.50	1		08/20/23 02:12	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

Sample: YAT-PZ-35 **Lab ID: 92683384018** Collected: 08/16/23 12:04 Received: 08/17/23 09:55 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	**21.5**	mg/L	1.0	0.12	1	08/29/23 14:36	08/30/23 01:15	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	0.0012	1	08/24/23 11:07	08/30/23 00:11	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/24/23 11:07	08/30/23 00:11	7440-38-2	
Barium	**0.18**	mg/L	0.0050	0.00067	1	08/24/23 11:07	08/30/23 00:11	7440-39-3	
Beryllium	**0.0011**	mg/L	0.00050	0.000054	1	08/24/23 11:07	08/30/23 00:11	7440-41-7	
Boron	**0.13**	mg/L	0.040	0.0086	1	08/24/23 11:07	09/01/23 16:19	7440-42-8	
Cadmium	**0.00020J**	mg/L	0.00050	0.00011	1	08/24/23 11:07	08/30/23 00:11	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/24/23 11:07	08/30/23 00:11	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/24/23 11:07	08/30/23 00:11	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/24/23 11:07	08/30/23 00:11	7439-92-1	
Lithium	**0.0026J**	mg/L	0.030	0.00073	1	08/24/23 11:07	08/30/23 00:11	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/24/23 11:07	08/30/23 00:11	7439-98-7	
Selenium	**0.0039J**	mg/L	0.0050	0.0014	1	08/24/23 11:07	08/30/23 00:11	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/24/23 11:07	08/30/23 00:11	7440-28-0	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**256**	mg/L	25.0	25.0	1		08/23/23 17:29		
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	09/09/23 17:08	09/12/23 09:40	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.9**	mg/L	1.0	0.60	1		08/20/23 02:57	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/20/23 02:57	16984-48-8	
Sulfate	**107**	mg/L	2.0	1.0	2		08/20/23 09:30	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

Sample: YAT-YGWC-24SB **Lab ID: 92683384019** Collected: 08/16/23 15:03 Received: 08/17/23 09:55 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	**2.2**	mg/L	1.0	0.12	1	08/29/23 14:36	08/30/23 01:21	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	0.0012	1	08/24/23 11:07	08/30/23 00:17	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/24/23 11:07	08/30/23 00:17	7440-38-2	
Barium	**0.025**	mg/L	0.0050	0.00067	1	08/24/23 11:07	08/30/23 00:17	7440-39-3	
Beryllium	**0.000096J**	mg/L	0.00050	0.000054	1	08/24/23 11:07	08/30/23 00:17	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	08/24/23 11:07	08/30/23 00:17	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/24/23 11:07	08/30/23 00:17	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/24/23 11:07	08/30/23 00:17	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/24/23 11:07	08/30/23 00:17	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/24/23 11:07	08/30/23 00:17	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	08/24/23 11:07	08/30/23 00:17	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/24/23 11:07	08/30/23 00:17	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/24/23 11:07	08/30/23 00:17	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/24/23 11:07	08/30/23 00:17	7440-28-0	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**68.0**	mg/L	25.0	25.0	1		08/23/23 17:29		
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	09/09/23 17:08	09/12/23 09:46	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**8.1**	mg/L	1.0	0.60	1		08/20/23 03:12	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/20/23 03:12	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/20/23 03:12	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

Sample: YAT-PZ-37D **Lab ID: 92683384020** Collected: 08/16/23 17:20 Received: 08/17/23 09:55 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	**67.5**	mg/L	1.0	0.12	1	08/29/23 14:36	08/30/23 01:36	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	0.0012	1	08/24/23 11:07	08/30/23 00:23	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/24/23 11:07	08/30/23 00:23	7440-38-2	
Barium	**0.021**	mg/L	0.0050	0.00067	1	08/24/23 11:07	08/30/23 00:23	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/24/23 11:07	08/30/23 00:23	7440-41-7	
Boron	**0.75**	mg/L	0.040	0.0086	1	08/24/23 11:07	09/01/23 16:23	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/24/23 11:07	08/30/23 00:23	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/24/23 11:07	08/30/23 00:23	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/24/23 11:07	08/30/23 00:23	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/24/23 11:07	08/30/23 00:23	7439-92-1	
Lithium	**0.0095J**	mg/L	0.030	0.00073	1	08/24/23 11:07	08/30/23 00:23	7439-93-2	
Molybdenum	**0.0040J**	mg/L	0.010	0.00074	1	08/24/23 11:07	08/30/23 00:23	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/24/23 11:07	08/30/23 00:23	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/24/23 11:07	08/30/23 00:23	7440-28-0	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**505**	mg/L	25.0	25.0	1		08/23/23 17:30		
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	09/09/23 17:08	09/12/23 09:49	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**14.8**	mg/L	1.0	0.60	1		08/19/23 13:31	16887-00-6	
Fluoride	**0.23**	mg/L	0.10	0.050	1		08/19/23 13:31	16984-48-8	
Sulfate	**210**	mg/L	4.0	2.0	4		08/20/23 03:33	14808-79-8	M1

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

Sample: YAT-PZ-37 **Lab ID: 92683384021** Collected: 08/17/23 10:20 Received: 08/18/23 11:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**101**	mg/L	1.0	0.12	1	08/30/23 11:43	08/31/23 00:34	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	0.0012	1	08/24/23 11:07	08/30/23 00:29	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/24/23 11:07	08/30/23 00:29	7440-38-2	
Barium	**0.023**	mg/L	0.0050	0.00067	1	08/24/23 11:07	08/30/23 00:29	7440-39-3	
Beryllium	**0.0012**	mg/L	0.00050	0.000054	1	08/24/23 11:07	08/30/23 00:29	7440-41-7	
Boron	**9.5**	mg/L	0.40	0.086	10	08/24/23 11:07	09/01/23 16:27	7440-42-8	
Cadmium	**0.00085**	mg/L	0.00050	0.00011	1	08/24/23 11:07	08/30/23 00:29	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/24/23 11:07	08/30/23 00:29	7440-47-3	
Cobalt	**0.0027J**	mg/L	0.0050	0.00039	1	08/24/23 11:07	08/30/23 00:29	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/24/23 11:07	08/30/23 00:29	7439-92-1	
Lithium	**0.016J**	mg/L	0.030	0.00073	1	08/24/23 11:07	08/30/23 00:29	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/24/23 11:07	08/30/23 00:29	7439-98-7	
Selenium	**0.15**	mg/L	0.0050	0.0014	1	08/24/23 11:07	08/30/23 00:29	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/24/23 11:07	08/30/23 00:29	7440-28-0	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**938**	mg/L	25.0	25.0	1		08/23/23 17:34		
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	09/09/23 17:08	09/12/23 09:51	7439-97-6	
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		08/23/23 03:15	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/23/23 03:15	16984-48-8	
Sulfate	**459**	mg/L	9.0	4.5	9		08/23/23 08:55	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

Sample: YAT-AMA-R6-FD-3 **Lab ID: 92683384022** Collected: 08/17/23 00:00 Received: 08/18/23 11:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**101**	mg/L	1.0	0.12	1	08/30/23 11:43	08/31/23 00:50	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	0.0012	1	08/24/23 11:07	08/30/23 00:35	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/24/23 11:07	08/30/23 00:35	7440-38-2	
Barium	**0.023**	mg/L	0.0050	0.00067	1	08/24/23 11:07	08/30/23 00:35	7440-39-3	
Beryllium	**0.0012**	mg/L	0.00050	0.000054	1	08/24/23 11:07	08/30/23 00:35	7440-41-7	
Boron	**9.4**	mg/L	0.40	0.086	10	08/24/23 11:07	09/01/23 16:31	7440-42-8	
Cadmium	**0.00084**	mg/L	0.00050	0.00011	1	08/24/23 11:07	08/30/23 00:35	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/24/23 11:07	08/30/23 00:35	7440-47-3	
Cobalt	**0.0020J**	mg/L	0.0050	0.00039	1	08/24/23 11:07	08/30/23 00:35	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/24/23 11:07	08/30/23 00:35	7439-92-1	
Lithium	**0.015J**	mg/L	0.030	0.00073	1	08/24/23 11:07	08/30/23 00:35	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/24/23 11:07	08/30/23 00:35	7439-98-7	
Selenium	**0.15**	mg/L	0.0050	0.0014	1	08/24/23 11:07	08/30/23 00:35	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/24/23 11:07	08/30/23 00:35	7440-28-0	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**941**	mg/L	25.0	25.0	1		08/23/23 17:35		
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	09/09/23 17:08	09/12/23 09:53	7439-97-6	
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		08/23/23 03:30	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/23/23 03:30	16984-48-8	
Sulfate	**469**	mg/L	10.0	5.0	10		08/23/23 09:09	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

Sample: YAT-PZ-52D **Lab ID: 92683384023** Collected: 08/17/23 14:20 Received: 08/18/23 11:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**22.1**	mg/L	1.0	0.12	1	08/30/23 11:43	08/31/23 00:55	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	08/24/23 11:07	08/30/23 00:41	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/24/23 11:07	08/30/23 00:41	7440-38-2	
Barium	**0.011**	mg/L	0.0050	0.00067	1	08/24/23 11:07	08/30/23 00:41	7440-39-3	
Beryllium	**0.000086J**	mg/L	0.00050	0.000054	1	08/24/23 11:07	08/30/23 00:41	7440-41-7	
Boron	**1.9**	mg/L	0.40	0.086	10	08/24/23 11:07	09/01/23 16:35	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/24/23 11:07	08/30/23 00:41	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/24/23 11:07	08/30/23 00:41	7440-47-3	
Cobalt	**0.0031J**	mg/L	0.0050	0.00039	1	08/24/23 11:07	08/30/23 00:41	7440-48-4	
Lead	**0.0014**	mg/L	0.0010	0.00012	1	08/24/23 11:07	08/30/23 00:41	7439-92-1	
Lithium	**0.029J**	mg/L	0.030	0.00073	1	08/24/23 11:07	08/30/23 00:41	7439-93-2	
Molybdenum	**0.0030J**	mg/L	0.010	0.00074	1	08/24/23 11:07	08/30/23 00:41	7439-98-7	
Selenium	**0.011**	mg/L	0.0050	0.0014	1	08/24/23 11:07	08/30/23 00:41	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/24/23 11:07	08/30/23 00:41	7440-28-0	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**600**	mg/L	25.0	25.0	1		08/23/23 17:35		
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	09/09/23 17:08	09/12/23 09:55	7439-97-6	
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		08/23/23 04:14	16887-00-6	
Fluoride	**0.059J**	mg/L	0.10	0.050	1		08/23/23 04:14	16984-48-8	
Sulfate	**289**	mg/L	6.0	3.0	6		08/23/23 09:24	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

Sample: YAT-AMA-R6-FB-1 **Lab ID: 92683384024** Collected: 08/17/23 11:55 Received: 08/18/23 11:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	08/30/23 11:43	08/31/23 01:00	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	0.0012	1	08/24/23 11:07	08/30/23 00:59	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/24/23 11:07	08/30/23 00:59	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	08/24/23 11:07	08/30/23 00:59	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/24/23 11:07	08/30/23 00:59	7440-41-7	
Boron	**0.016J**	mg/L	0.040	0.0086	1	08/24/23 11:07	08/30/23 00:59	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/24/23 11:07	08/30/23 00:59	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/24/23 11:07	09/01/23 16:39	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/24/23 11:07	08/30/23 00:59	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/24/23 11:07	08/30/23 00:59	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	08/24/23 11:07	08/30/23 00:59	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/24/23 11:07	08/30/23 00:59	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/24/23 11:07	08/30/23 00:59	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/24/23 11:07	08/30/23 00:59	7440-28-0	
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		08/23/23 17:35		
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	09/09/23 17:08	09/12/23 09:58	7439-97-6	
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		08/23/23 04:29	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/23/23 04:29	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/23/23 04:29	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

Sample: YAT-YAMW-2 **Lab ID: 92683384025** Collected: 08/17/23 12:30 Received: 08/18/23 11:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**1.4**	mg/L	1.0	0.12	1	08/30/23 11:43	08/31/23 01:05	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	0.0012	1	08/24/23 11:07	08/30/23 01:05	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/24/23 11:07	08/30/23 01:05	7440-38-2	
Barium	**0.0092**	mg/L	0.0050	0.00067	1	08/24/23 11:07	08/30/23 01:05	7440-39-3	
Beryllium	**0.000069J**	mg/L	0.00050	0.000054	1	08/24/23 11:07	08/30/23 01:05	7440-41-7	
Boron	**0.040**	mg/L	0.040	0.0086	1	08/24/23 11:07	09/01/23 16:43	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/24/23 11:07	08/30/23 01:05	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/24/23 11:07	09/01/23 16:43	7440-47-3	
Cobalt	**0.0053**	mg/L	0.0050	0.00039	1	08/24/23 11:07	08/30/23 01:05	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/24/23 11:07	08/30/23 01:05	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	08/24/23 11:07	08/30/23 01:05	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/24/23 11:07	08/30/23 01:05	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/24/23 11:07	08/30/23 01:05	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/24/23 11:07	08/30/23 01:05	7440-28-0	
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		08/24/23 14:16		
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	09/09/23 17:08	09/12/23 10:00	7439-97-6	
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		08/23/23 05:14	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/23/23 05:14	16984-48-8	
Sulfate	**6.6**	mg/L	1.0	0.50	1		08/23/23 05:14	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

Sample: YAT-YGWC-50 **Lab ID: 92683384026** Collected: 08/17/23 11:50 Received: 08/18/23 11:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**229**	mg/L	5.0	0.61	5	08/30/23 11:43	08/31/23 01:16	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	0.0012	1	08/24/23 11:07	08/30/23 01:17	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/24/23 11:07	08/30/23 01:17	7440-38-2	
Barium	**0.022**	mg/L	0.0050	0.00067	1	08/24/23 11:07	08/30/23 01:17	7440-39-3	
Beryllium	**0.0047**	mg/L	0.00050	0.000054	1	08/24/23 11:07	08/30/23 01:17	7440-41-7	
Boron	**20.1**	mg/L	0.20	0.043	5	08/24/23 11:07	09/01/23 16:48	7440-42-8	
Cadmium	**0.018**	mg/L	0.00050	0.00011	1	08/24/23 11:07	08/30/23 01:17	7440-43-9	
Chromium	ND	mg/L	0.025	0.0055	5	08/24/23 11:07	09/01/23 16:48	7440-47-3	D3
Cobalt	**0.0086**	mg/L	0.0050	0.00039	1	08/24/23 11:07	08/30/23 01:17	7440-48-4	
Lead	**0.00020J**	mg/L	0.0010	0.00012	1	08/24/23 11:07	08/30/23 01:17	7439-92-1	
Lithium	**0.0033J**	mg/L	0.030	0.00073	1	08/24/23 11:07	08/30/23 01:17	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/24/23 11:07	08/30/23 01:17	7439-98-7	
Selenium	**0.0018J**	mg/L	0.0050	0.0014	1	08/24/23 11:07	08/30/23 01:17	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/24/23 11:07	08/30/23 01:17	7440-28-0	
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		08/24/23 14:17		
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	09/09/23 17:08	09/12/23 10:02	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**9.4**	mg/L	1.0	0.60	1		08/23/23 05:28	16887-00-6	
Fluoride	**0.12**	mg/L	0.10	0.050	1		08/23/23 05:28	16984-48-8	
Sulfate	**1140**	mg/L	22.0	11.0	22		08/23/23 10:08	14808-79-8	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

QC Batch: 796638
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92683384001, 92683384002, 92683384003, 92683384004, 92683384005, 92683384006, 92683384007, 92683384008, 92683384009, 92683384010, 92683384011, 92683384012, 92683384013, 92683384014, 92683384015, 92683384016, 92683384017, 92683384018, 92683384019, 92683384020

METHOD BLANK: 4127354
Matrix: Water
Associated Lab Samples: 92683384001, 92683384002, 92683384003, 92683384004, 92683384005, 92683384006, 92683384007, 92683384008, 92683384009, 92683384010, 92683384011, 92683384012, 92683384013, 92683384014, 92683384015, 92683384016, 92683384017, 92683384018, 92683384019, 92683384020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	08/29/23 23:01	

LABORATORY CONTROL SAMPLE: 4127355

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: 4127356 4127357

Parameter	Units	92683384001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	11.2	1	1	12.4	12.9	124	176	75-125	4	20	M1

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

QC Batch: 796802
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92683384021, 92683384022, 92683384023, 92683384024, 92683384025, 92683384026

METHOD BLANK: 4128025 Matrix: Water
Associated Lab Samples: 92683384021, 92683384022, 92683384023, 92683384024, 92683384025, 92683384026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	08/30/23 22:46	

LABORATORY CONTROL SAMPLE: 4128026

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.94J	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4128027 4128028

Parameter	Units	92683381005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	196	1	1	205	201	877	510	75-125	2	20	M1

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

QC Batch: 795635
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92683384001, 92683384002, 92683384003, 92683384004, 92683384005, 92683384006, 92683384007, 92683384008

METHOD BLANK: 4122455 Matrix: Water
Associated Lab Samples: 92683384001, 92683384002, 92683384003, 92683384004, 92683384005, 92683384006, 92683384007, 92683384008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.0012	08/28/23 18:57	
Arsenic	mg/L	ND	0.0050	0.0037	08/28/23 18:57	
Barium	mg/L	ND	0.0050	0.00067	08/28/23 18:57	
Beryllium	mg/L	ND	0.00050	0.000054	08/28/23 18:57	
Boron	mg/L	ND	0.040	0.0086	08/28/23 18:57	
Cadmium	mg/L	ND	0.00050	0.00011	08/28/23 18:57	
Chromium	mg/L	ND	0.0050	0.0011	08/28/23 18:57	
Cobalt	mg/L	ND	0.0050	0.00039	08/28/23 18:57	
Lead	mg/L	ND	0.0010	0.00012	08/28/23 18:57	
Lithium	mg/L	ND	0.030	0.00073	08/28/23 18:57	
Molybdenum	mg/L	ND	0.010	0.00074	08/28/23 18:57	
Selenium	mg/L	ND	0.0050	0.0014	08/28/23 18:57	
Thallium	mg/L	ND	0.0010	0.00018	08/28/23 18:57	

LABORATORY CONTROL SAMPLE: 4122456

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	109	80-120	
Arsenic	mg/L	0.1	0.10	100	80-120	
Barium	mg/L	0.1	0.099	99	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	0.10	102	80-120	
Chromium	mg/L	0.1	0.098	98	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Lead	mg/L	0.1	0.097	97	80-120	
Lithium	mg/L	0.1	0.10	103	80-120	
Molybdenum	mg/L	0.1	0.098	98	80-120	
Selenium	mg/L	0.1	0.10	103	80-120	
Thallium	mg/L	0.1	0.096	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4123340 4123341

Parameter	Units	92683383001 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	110	75-125	3	20	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4123340 4123341

Parameter	Units	92683383001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.1	0.1	0.099	0.10	99	101	75-125	2	20	
Barium	mg/L	0.21	0.1	0.1	0.30	0.30	90	91	75-125	0	20	
Beryllium	mg/L	ND	0.1	0.1	0.093	0.093	93	93	75-125	0	20	
Boron	mg/L	2.1	1	1	3.0	2.9	84	78	75-125	2	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	100	103	75-125	3	20	
Chromium	mg/L	ND	0.1	0.1	0.097	0.097	97	97	75-125	0	20	
Cobalt	mg/L	0.00080J	0.1	0.1	0.096	0.095	96	94	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.093	0.094	93	94	75-125	1	20	
Lithium	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	1	20	
Molybdenum	mg/L	0.00077J	0.1	0.1	0.097	0.10	96	99	75-125	3	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	102	103	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.092	0.094	92	94	75-125	2	20	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

QC Batch: 795671
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92683384009, 92683384010, 92683384011, 92683384012, 92683384013, 92683384014, 92683384015, 92683384016, 92683384017, 92683384018, 92683384019, 92683384020, 92683384021, 92683384022, 92683384023, 92683384024, 92683384025, 92683384026

METHOD BLANK: 4122690 Matrix: Water
Associated Lab Samples: 92683384009, 92683384010, 92683384011, 92683384012, 92683384013, 92683384014, 92683384015, 92683384016, 92683384017, 92683384018, 92683384019, 92683384020, 92683384021, 92683384022, 92683384023, 92683384024, 92683384025, 92683384026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.0012	08/29/23 22:36	
Arsenic	mg/L	ND	0.0050	0.0037	08/29/23 22:36	
Barium	mg/L	ND	0.0050	0.00067	08/29/23 22:36	
Beryllium	mg/L	ND	0.00050	0.000054	08/29/23 22:36	
Boron	mg/L	ND	0.040	0.0086	08/29/23 22:36	
Cadmium	mg/L	ND	0.00050	0.00011	08/29/23 22:36	
Chromium	mg/L	ND	0.0050	0.0011	08/29/23 22:36	
Cobalt	mg/L	ND	0.0050	0.00039	08/29/23 22:36	
Lead	mg/L	ND	0.0010	0.00012	08/29/23 22:36	
Lithium	mg/L	ND	0.030	0.00073	08/29/23 22:36	
Molybdenum	mg/L	ND	0.010	0.00074	08/29/23 22:36	
Selenium	mg/L	ND	0.0050	0.0014	08/29/23 22:36	
Thallium	mg/L	ND	0.0010	0.00018	08/29/23 22:36	

LABORATORY CONTROL SAMPLE: 4122691

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	108	80-120	
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.10	100	80-120	
Beryllium	mg/L	0.1	0.099	99	80-120	
Boron	mg/L	1	1.0	100	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.091	91	80-120	
Cobalt	mg/L	0.1	0.092	92	80-120	
Lead	mg/L	0.1	0.094	94	80-120	
Lithium	mg/L	0.1	0.10	104	80-120	
Molybdenum	mg/L	0.1	0.098	98	80-120	
Selenium	mg/L	0.1	0.10	100	80-120	
Thallium	mg/L	0.1	0.093	93	80-120	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4122692 4122693

Parameter	Units	92683384009 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	113	113	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.11	0.11	105	105	75-125	0	20	
Barium	mg/L	0.024	0.1	0.1	0.13	0.13	109	110	75-125	0	20	
Beryllium	mg/L	0.000057J	0.1	0.1	0.094	0.094	94	94	75-125	0	20	
Boron	mg/L	7.1	1	1	8.1	8.2	107	114	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	103	103	75-125	0	20	
Chromium	mg/L	ND	0.1	0.1	0.099	0.097	99	97	75-125	2	20	
Cobalt	mg/L	0.0014J	0.1	0.1	0.099	0.098	98	97	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.094	0.092	94	92	75-125	2	20	
Lithium	mg/L	0.054	0.1	0.1	0.15	0.16	96	102	75-125	4	20	
Molybdenum	mg/L	0.00096J	0.1	0.1	0.11	0.11	104	105	75-125	1	20	
Selenium	mg/L	0.019	0.1	0.1	0.12	0.13	105	107	75-125	2	20	
Thallium	mg/L	ND	0.1	0.1	0.093	0.092	93	91	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

QC Batch: 796307
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92683384001, 92683384002, 92683384003, 92683384004, 92683384005, 92683384006, 92683384007, 92683384008, 92683384009, 92683384010, 92683384011, 92683384012

METHOD BLANK: 4125724 Matrix: Water
Associated Lab Samples: 92683384001, 92683384002, 92683384003, 92683384004, 92683384005, 92683384006, 92683384007, 92683384008, 92683384009, 92683384010, 92683384011, 92683384012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	08/28/23 13:12	

LABORATORY CONTROL SAMPLE: 4125725

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0021	85	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4125726 4125727

Parameter	Units	92684307009 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	0.0026	93	100	75-125	7	20	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

QC Batch: 795117
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: 92683384001, 92683384002, 92683384003, 92683384004, 92683384005, 92683384006, 92683384007, 92683384008, 92683384009, 92683384010, 92683384011, 92683384012, 92683384013, 92683384014, 92683384015, 92683384016

METHOD BLANK: 4119882 Matrix: Water
Associated Lab Samples: 92683384001, 92683384002, 92683384003, 92683384004, 92683384005, 92683384006, 92683384007, 92683384008, 92683384009, 92683384010, 92683384011, 92683384012, 92683384013, 92683384014, 92683384015, 92683384016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	08/22/23 15:56	

LABORATORY CONTROL SAMPLE: 4119883

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	385	96	80-120	

SAMPLE DUPLICATE: 4119884

Parameter	Units	92683139008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 4119885

Parameter	Units	92683384007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	97.0	89.0	9	10	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

QC Batch: 795386 | 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: 92683384017, 92683384018, 92683384019, 92683384020, 92683384021, 92683384022, 92683384023, 92683384024

METHOD BLANK: 4121212 Matrix: Water
Associated Lab Samples: 92683384017, 92683384018, 92683384019, 92683384020, 92683384021, 92683384022, 92683384023, 92683384024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	08/23/23 17:29	

LABORATORY CONTROL SAMPLE: 4121213

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	381	95	80-120	

SAMPLE DUPLICATE: 4121214

Parameter	Units	92683139007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	450	456	1	10	

SAMPLE DUPLICATE: 4121215

Parameter	Units	92683383008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	137	136	1	10	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

QC Batch: 795387
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: 92683384025, 92683384026

METHOD BLANK: 4121219 Matrix: Water
Associated Lab Samples: 92683384025, 92683384026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	08/24/23 14:11	

LABORATORY CONTROL SAMPLE: 4121220

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	384	96	80-120	

SAMPLE DUPLICATE: 4121221

Parameter	Units	92683381013 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	702	680	3	10	

SAMPLE DUPLICATE: 4121222

Parameter	Units	92683381023 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1490	1480	1	10	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

QC Batch: 798703
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92683384013, 92683384014, 92683384015, 92683384016, 92683384017, 92683384018, 92683384019, 92683384020, 92683384021, 92683384022, 92683384023, 92683384024, 92683384025, 92683384026

METHOD BLANK: 4137018 Matrix: Water
Associated Lab Samples: 92683384013, 92683384014, 92683384015, 92683384016, 92683384017, 92683384018, 92683384019, 92683384020, 92683384021, 92683384022, 92683384023, 92683384024, 92683384025, 92683384026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00012	09/12/23 09:19	

LABORATORY CONTROL SAMPLE: 4137019

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4137020 4137021

Parameter	Units	92683384013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0026	0.0026	103	104	75-125	1	25	

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

QC Batch: 794747
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: 92683384001, 92683384002, 92683384003, 92683384004, 92683384005, 92683384006, 92683384007, 92683384008, 92683384009, 92683384010, 92683384011, 92683384012, 92683384013, 92683384014, 92683384015, 92683384016, 92683384017, 92683384018, 92683384019

METHOD BLANK: 4118291 Matrix: Water
Associated Lab Samples: 92683384001, 92683384002, 92683384003, 92683384004, 92683384005, 92683384006, 92683384007, 92683384008, 92683384009, 92683384010, 92683384011, 92683384012, 92683384013, 92683384014, 92683384015, 92683384016, 92683384017, 92683384018, 92683384019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/19/23 19:13	
Fluoride	mg/L	ND	0.10	0.050	08/19/23 19:13	
Sulfate	mg/L	ND	1.0	0.50	08/19/23 19:13	

LABORATORY CONTROL SAMPLE: 4118292

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.8	100	90-110	
Fluoride	mg/L	2.5	2.7	106	90-110	
Sulfate	mg/L	50	49.7	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4118293 4118294

Parameter	Units	92683124019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.1	50	50	50.4	50.8	99	99	90-110	1	10	
Fluoride	mg/L	0.11	2.5	2.5	2.9	2.9	110	112	90-110	2	10	M1
Sulfate	mg/L	20.3	50	50	68.5	69.0	96	97	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4118295 4118296

Parameter	Units	92683384010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.3	50	50	51.7	52.3	99	100	90-110	1	10	
Fluoride	mg/L	0.062J	2.5	2.5	3.2	3.3	126	130	90-110	3	10	M1
Sulfate	mg/L	151	50	50	194	194	86	87	90-110	0	10	M1

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

QC Batch: 794766
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: 92683384020

METHOD BLANK: 4118335 Matrix: Water
Associated Lab Samples: 92683384020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/19/23 13:02	
Fluoride	mg/L	ND	0.10	0.050	08/19/23 13:02	
Sulfate	mg/L	ND	1.0	0.50	08/19/23 13:02	

LABORATORY CONTROL SAMPLE: 4118336

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.0	100	90-110	
Fluoride	mg/L	2.5	2.6	104	90-110	
Sulfate	mg/L	50	50.1	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4118337 4118338

Parameter	Units	92683384020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	14.8	50	50	64.2	65.0	99	100	90-110	1	10	
Fluoride	mg/L	0.23	2.5	2.5	2.6	2.6	93	95	90-110	2	10	
Sulfate	mg/L	210	50	50	251	250	82	79	90-110	1	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4118339 4118340

Parameter	Units	92683381010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	23.8	50	50	73.3	70.4	99	93	90-110	4	10	
Fluoride	mg/L	0.14	2.5	2.5	2.5	2.4	93	89	90-110	4	10	M1
Sulfate	mg/L	218	50	50	264	256	92	76	90-110	3	10	M1

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QUALITY CONTROL DATA

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

QC Batch: 795066
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: 92683384021, 92683384022, 92683384023, 92683384024, 92683384025, 92683384026

METHOD BLANK: 4119716 Matrix: Water
Associated Lab Samples: 92683384021, 92683384022, 92683384023, 92683384024, 92683384025, 92683384026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/23/23 00:03	
Fluoride	mg/L	ND	0.10	0.050	08/23/23 00:03	
Sulfate	mg/L	ND	1.0	0.50	08/23/23 00:03	

LABORATORY CONTROL SAMPLE: 4119717

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.2	100	90-110	
Fluoride	mg/L	2.5	2.5	98	90-110	
Sulfate	mg/L	50	50.4	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4119718 4119719

Parameter	Units	92683383005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	15.7	50	50	62.8	63.8	94	96	90-110	2	10	
Fluoride	mg/L	0.073J	2.5	2.5	2.4	2.4	93	95	90-110	2	10	
Sulfate	mg/L	81.1	50	50	118	119	74	76	90-110	1	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4119720 4119721

Parameter	Units	92683384024 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	47.7	48.0	95	96	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.3	2.3	93	93	90-110	0	10	
Sulfate	mg/L	ND	50	50	47.9	48.1	95	96	90-110	0	10	

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QUALIFIERS

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

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

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92683384001	**YAT-YGWC-23S**	EPA 3010A	796638	EPA 6010D	796695
92683384002	**YAT-YGWC-38**	EPA 3010A	796638	EPA 6010D	796695
92683384003	**YAT-AMA-R6-FD-2**	EPA 3010A	796638	EPA 6010D	796695
92683384004	**YAT-YGWC-41**	EPA 3010A	796638	EPA 6010D	796695
92683384005	**YAT-YAMW-4**	EPA 3010A	796638	EPA 6010D	796695
92683384006	**YAT-YAMW-5**	EPA 3010A	796638	EPA 6010D	796695
92683384007	**YAT-AMA-R6-EB-2**	EPA 3010A	796638	EPA 6010D	796695
92683384008	**YAT-AMA-R6-FB-2**	EPA 3010A	796638	EPA 6010D	796695
92683384009	**YAT-YGWC-42**	EPA 3010A	796638	EPA 6010D	796695
92683384010	**YAT-YGWC-43**	EPA 3010A	796638	EPA 6010D	796695
92683384011	**YAT-YAMW-3**	EPA 3010A	796638	EPA 6010D	796695
92683384012	**YAT-PZ-51**	EPA 3010A	796638	EPA 6010D	796695
92683384013	**YAT-AMA-R6-EB-1**	EPA 3010A	796638	EPA 6010D	796695
92683384014	**YAT-YAMW-1**	EPA 3010A	796638	EPA 6010D	796695
92683384015	**YAT-AMA-FD-1**	EPA 3010A	796638	EPA 6010D	796695
92683384016	**YAT-YGWC-36A**	EPA 3010A	796638	EPA 6010D	796695
92683384017	**YAT-YGWC-49**	EPA 3010A	796638	EPA 6010D	796695
92683384018	**YAT-PZ-35**	EPA 3010A	796638	EPA 6010D	796695
92683384019	**YAT-YGWC-24SB**	EPA 3010A	796638	EPA 6010D	796695
92683384020	**YAT-PZ-37D**	EPA 3010A	796638	EPA 6010D	796695
92683384021	**YAT-PZ-37**	EPA 3010A	796802	EPA 6010D	796891
92683384022	**YAT-AMA-R6-FD-3**	EPA 3010A	796802	EPA 6010D	796891
92683384023	**YAT-PZ-52D**	EPA 3010A	796802	EPA 6010D	796891
92683384024	**YAT-AMA-R6-FB-1**	EPA 3010A	796802	EPA 6010D	796891
92683384025	**YAT-YAMW-2**	EPA 3010A	796802	EPA 6010D	796891
92683384026	**YAT-YGWC-50**	EPA 3010A	796802	EPA 6010D	796891
92683384001	**YAT-YGWC-23S**	EPA 3005A	795635	EPA 6020B	795763
92683384002	**YAT-YGWC-38**	EPA 3005A	795635	EPA 6020B	795763
92683384003	**YAT-AMA-R6-FD-2**	EPA 3005A	795635	EPA 6020B	795763
92683384004	**YAT-YGWC-41**	EPA 3005A	795635	EPA 6020B	795763
92683384005	**YAT-YAMW-4**	EPA 3005A	795635	EPA 6020B	795763
92683384006	**YAT-YAMW-5**	EPA 3005A	795635	EPA 6020B	795763
92683384007	**YAT-AMA-R6-EB-2**	EPA 3005A	795635	EPA 6020B	795763
92683384008	**YAT-AMA-R6-FB-2**	EPA 3005A	795635	EPA 6020B	795763
92683384009	**YAT-YGWC-42**	EPA 3005A	795671	EPA 6020B	795773
92683384010	**YAT-YGWC-43**	EPA 3005A	795671	EPA 6020B	795773
92683384011	**YAT-YAMW-3**	EPA 3005A	795671	EPA 6020B	795773
92683384012	**YAT-PZ-51**	EPA 3005A	795671	EPA 6020B	795773
92683384013	**YAT-AMA-R6-EB-1**	EPA 3005A	795671	EPA 6020B	795773
92683384014	**YAT-YAMW-1**	EPA 3005A	795671	EPA 6020B	795773
92683384015	**YAT-AMA-FD-1**	EPA 3005A	795671	EPA 6020B	795773
92683384016	**YAT-YGWC-36A**	EPA 3005A	795671	EPA 6020B	795773
92683384017	**YAT-YGWC-49**	EPA 3005A	795671	EPA 6020B	795773
92683384018	**YAT-PZ-35**	EPA 3005A	795671	EPA 6020B	795773
92683384019	**YAT-YGWC-24SB**	EPA 3005A	795671	EPA 6020B	795773
92683384020	**YAT-PZ-37D**	EPA 3005A	795671	EPA 6020B	795773
92683384021	**YAT-PZ-37**	EPA 3005A	795671	EPA 6020B	795773

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92683384022	**YAT-AMA-R6-FD-3**	EPA 3005A	795671	EPA 6020B	795773
92683384023	**YAT-PZ-52D**	EPA 3005A	795671	EPA 6020B	795773
92683384024	**YAT-AMA-R6-FB-1**	EPA 3005A	795671	EPA 6020B	795773
92683384025	**YAT-YAMW-2**	EPA 3005A	795671	EPA 6020B	795773
92683384026	**YAT-YGWC-50**	EPA 3005A	795671	EPA 6020B	795773
92683384001	**YAT-YGWC-23S**	EPA 7470A	796307	EPA 7470A	796358
92683384002	**YAT-YGWC-38**	EPA 7470A	796307	EPA 7470A	796358
92683384003	**YAT-AMA-R6-FD-2**	EPA 7470A	796307	EPA 7470A	796358
92683384004	**YAT-YGWC-41**	EPA 7470A	796307	EPA 7470A	796358
92683384005	**YAT-YAMW-4**	EPA 7470A	796307	EPA 7470A	796358
92683384006	**YAT-YAMW-5**	EPA 7470A	796307	EPA 7470A	796358
92683384007	**YAT-AMA-R6-EB-2**	EPA 7470A	796307	EPA 7470A	796358
92683384008	**YAT-AMA-R6-FB-2**	EPA 7470A	796307	EPA 7470A	796358
92683384009	**YAT-YGWC-42**	EPA 7470A	796307	EPA 7470A	796358
92683384010	**YAT-YGWC-43**	EPA 7470A	796307	EPA 7470A	796358
92683384011	**YAT-YAMW-3**	EPA 7470A	796307	EPA 7470A	796358
92683384012	**YAT-PZ-51**	EPA 7470A	796307	EPA 7470A	796358
92683384001	**YAT-YGWC-23S**	SM 2540C-2015	795117		
92683384002	**YAT-YGWC-38**	SM 2540C-2015	795117		
92683384003	**YAT-AMA-R6-FD-2**	SM 2540C-2015	795117		
92683384004	**YAT-YGWC-41**	SM 2540C-2015	795117		
92683384005	**YAT-YAMW-4**	SM 2540C-2015	795117		
92683384006	**YAT-YAMW-5**	SM 2540C-2015	795117		
92683384007	**YAT-AMA-R6-EB-2**	SM 2540C-2015	795117		
92683384008	**YAT-AMA-R6-FB-2**	SM 2540C-2015	795117		
92683384009	**YAT-YGWC-42**	SM 2540C-2015	795117		
92683384010	**YAT-YGWC-43**	SM 2540C-2015	795117		
92683384011	**YAT-YAMW-3**	SM 2540C-2015	795117		
92683384012	**YAT-PZ-51**	SM 2540C-2015	795117		
92683384013	**YAT-AMA-R6-EB-1**	SM 2540C-2015	795117		
92683384014	**YAT-YAMW-1**	SM 2540C-2015	795117		
92683384015	**YAT-AMA-FD-1**	SM 2540C-2015	795117		
92683384016	**YAT-YGWC-36A**	SM 2540C-2015	795117		
92683384017	**YAT-YGWC-49**	SM 2540C-2015	795386		
92683384018	**YAT-PZ-35**	SM 2540C-2015	795386		
92683384019	**YAT-YGWC-24SB**	SM 2540C-2015	795386		
92683384020	**YAT-PZ-37D**	SM 2540C-2015	795386		
92683384021	**YAT-PZ-37**	SM 2540C-2015	795386		
92683384022	**YAT-AMA-R6-FD-3**	SM 2540C-2015	795386		
92683384023	**YAT-PZ-52D**	SM 2540C-2015	795386		
92683384024	**YAT-AMA-R6-FB-1**	SM 2540C-2015	795386		
92683384025	**YAT-YAMW-2**	SM 2540C-2015	795387		
92683384026	**YAT-YGWC-50**	SM 2540C-2015	795387		
92683384013	**YAT-AMA-R6-EB-1**	EPA 7470A	798703	EPA 7470A	799058
92683384014	**YAT-YAMW-1**	EPA 7470A	798703	EPA 7470A	799058
92683384015	**YAT-AMA-FD-1**	EPA 7470A	798703	EPA 7470A	799058

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates AMA-R6
Pace Project No.: 92683384

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92683384016	**YAT-YGWC-36A**	EPA 7470A	798703	EPA 7470A	799058
92683384017	**YAT-YGWC-49**	EPA 7470A	798703	EPA 7470A	799058
92683384018	**YAT-PZ-35**	EPA 7470A	798703	EPA 7470A	799058
92683384019	**YAT-YGWC-24SB**	EPA 7470A	798703	EPA 7470A	799058
92683384020	**YAT-PZ-37D**	EPA 7470A	798703	EPA 7470A	799058
92683384021	**YAT-PZ-37**	EPA 7470A	798703	EPA 7470A	799058
92683384022	**YAT-AMA-R6-FD-3**	EPA 7470A	798703	EPA 7470A	799058
92683384023	**YAT-PZ-52D**	EPA 7470A	798703	EPA 7470A	799058
92683384024	**YAT-AMA-R6-FB-1**	EPA 7470A	798703	EPA 7470A	799058
92683384025	**YAT-YAMW-2**	EPA 7470A	798703	EPA 7470A	799058
92683384026	**YAT-YGWC-50**	EPA 7470A	798703	EPA 7470A	799058
92683384001	**YAT-YGWC-23S**	EPA 300.0 Rev 2.1 1993	794747		
92683384002	**YAT-YGWC-38**	EPA 300.0 Rev 2.1 1993	794747		
92683384003	**YAT-AMA-R6-FD-2**	EPA 300.0 Rev 2.1 1993	794747		
92683384004	**YAT-YGWC-41**	EPA 300.0 Rev 2.1 1993	794747		
92683384005	**YAT-YAMW-4**	EPA 300.0 Rev 2.1 1993	794747		
92683384006	**YAT-YAMW-5**	EPA 300.0 Rev 2.1 1993	794747		
92683384007	**YAT-AMA-R6-EB-2**	EPA 300.0 Rev 2.1 1993	794747		
92683384008	**YAT-AMA-R6-FB-2**	EPA 300.0 Rev 2.1 1993	794747		
92683384009	**YAT-YGWC-42**	EPA 300.0 Rev 2.1 1993	794747		
92683384010	**YAT-YGWC-43**	EPA 300.0 Rev 2.1 1993	794747		
92683384011	**YAT-YAMW-3**	EPA 300.0 Rev 2.1 1993	794747		
92683384012	**YAT-PZ-51**	EPA 300.0 Rev 2.1 1993	794747		
92683384013	**YAT-AMA-R6-EB-1**	EPA 300.0 Rev 2.1 1993	794747		
92683384014	**YAT-YAMW-1**	EPA 300.0 Rev 2.1 1993	794747		
92683384015	**YAT-AMA-FD-1**	EPA 300.0 Rev 2.1 1993	794747		
92683384016	**YAT-YGWC-36A**	EPA 300.0 Rev 2.1 1993	794747		
92683384017	**YAT-YGWC-49**	EPA 300.0 Rev 2.1 1993	794747		
92683384018	**YAT-PZ-35**	EPA 300.0 Rev 2.1 1993	794747		
92683384019	**YAT-YGWC-24SB**	EPA 300.0 Rev 2.1 1993	794747		
92683384020	**YAT-PZ-37D**	EPA 300.0 Rev 2.1 1993	794766		
92683384021	**YAT-PZ-37**	EPA 300.0 Rev 2.1 1993	795066		
92683384022	**YAT-AMA-R6-FD-3**	EPA 300.0 Rev 2.1 1993	795066		
92683384023	**YAT-PZ-52D**	EPA 300.0 Rev 2.1 1993	795066		
92683384024	**YAT-AMA-R6-FB-1**	EPA 300.0 Rev 2.1 1993	795066		
92683384025	**YAT-YAMW-2**	EPA 300.0 Rev 2.1 1993	795066		
92683384026	**YAT-YGWC-50**	EPA 300.0 Rev 2.1 1993	795066		

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DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Somerville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO# : 92683384

92683384

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other: ☑ Client

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No

Date/Initials Person Examining Contents: 9-17-23

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☑ No ☐ N/A

Thermometer: ☑ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 5.7 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 5.7

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8.
Sample Labels Match COC?	☐ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WG				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Pace

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottles**

*****Check all unpreserved Nitrates for chlorine**

Project # WO#: 92683384

PM: BV Due Date: 08/31/23

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)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1	2		2																							
2		1	1	2		2																							
3		1	1	2		2																							
4		1	1	2		2																							
5		1	1	2		2																							
6		1	1	2		2																							
7		1	1	2		2																							
8		1	1	2		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.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-202352	Address:	
Email To:	jtucker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	Bonnie Vang
Requested Due Date:	Standard	Project Number:		Pace Profile #:	10840 - 10561 - 4

Regulatory Agency: —

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	92683364
1	YAT-YGWC-23S	WG	G	8/16/23	1205	--	--		6	2		3						X	X	X	X			
2	YAT-YAMW-1	WG	G			--	--		5	2		3						X	X	X	X			
3	YAT-AMA-FD-1	WG	G			--	--		5	2		3						X	X	X	X			
4	YAT-YGWC-36A	WG	G			--	--		5	2		3						X	X	X	X			
5	YAT-YGWC-49	WG	G			--	--		5	2		3						X	X	X	X			
6	YAT-YGWC-38	WG	G	8/16/23	1020	--	--		6	2		3						X	X	X	X			
7	YAT-AMA-R6-FD-2	WG	G	8/16/23	--	--	--		6	2		3						X	X	X	X			
8	YAT-YGWC-41	WG	G	8/16/23	1455	--	--		6	2		3						X	X	X	X			
9	YAT-YGWC-42	WG	G			--	--		5	2		3						X	X	X	X			
10	YAT-YGWC-43	WG	G			--	--		5	2		3						X	X	X	X			
11	YAT-YAMW-2	WG	G			--	--		5	2		3						X	X	X	X			
12	YAT-YAMW-3	WG	G			--	--		5	2		3						X	X	X	X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/17/23	0800		8/17/23	0800
App III Metals: Boron 6020B, Ca 6010D	/Arcadis	8/17/23	0955	Lynn Williams /Pace	8/17/23	0955
App IV Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg).	Lynn Williams /Pace	8/17/23	1254		8-17	1254

SAMPLE CONDITIONS: TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tom Lapsynski

SIGNATURE of SAMPLER: [signature] DATE Signed: 8/17/23

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S2	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax:	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	Brittany Young
Requested Due Date:	Standard	Project Number:		Pace Profile #:	10840

Regulatory Agency: —
State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	92663384
1	YAT-YAMW-4	WG	G	8/16/23	1648	–	–		6	2		4						X	X	X	X			005
2	YAT-YAMW-5	WG	G	8/16/23	1308	–	–		6	2		4						X	X	X	X			1120
3	YAT-PZ-37	WG	G			–	–		6	2		4						X	X	X	X			
4	YAT-AMA-R6-FD-3	WG	G			–	–		6	2		4						X	X	X	X			
5	YAT-PZ-37D	WG	G			–	–		6	2		4						X	X	X	X			
6	YAT-PZ-51	WG	G			–	–		6	2		4						X	X	X	X			
7	YAT-PZ-52D	WG	G			–	–		6	2		4						X	X	X	X			
8	YAT-PZ-35	WG	G			–	–		6	2		4						X	X	X	X			
9	YAT-AMA-R6-EB-1	WG	G			–	–		6	2		4						X	X	X	X			
10	YAT-AMA-R6-EB-2	WG	G	8/16/23	1730	–	–		6	2		4						X	X	X	X			1107
11	YAT-AMA-R6-FB-1	WG	G			–	–		6	2		4						X	X	X	X			
12	YAT-AMA-R6-FB-2	WG	G	8/16/23	1055	–	–		6	2		4						X	X	X	X			0950

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/17/23	0800		8/17/23	0800	
App III Metals: Boron 6020B, Ca 6010D	/Arcadis	8/17/23	0955	Kyra Williams/Pace	8/17/23	0955	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Kyra Williams/Pace	8/17/23	1254		8/17	1254	

SAMPLER NAME AND SIGNATURE				TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	(Arcadis) - Kim Lapsynski						
SIGNATURE of SAMPLER:	(Arcadis) -	DATE Signed:	8/17/23				

Pace

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #

WO#: 92683384

PM: BV Due Date: 08/31/23

CLIENT: 92-GP-Yates

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other: ☑ Client

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No

Date/Initials Person Examining Contents: 2-17-23 H

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: 5.7 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 5.7

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☑ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☑ Yes	☐ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8.
Sample Labels Match COC?	☐ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WG				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☐ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☐ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☐ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Qualtrax ID: 69814

WO# : 92683384

PM: BV **Due Date: 08/31/23**

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)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S2	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	Bonnie Vang
Requested Due Date:	Standard	Project Number:		Pace Profile #:	10840

Regulatory Agency
State / Location
Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	926833B4
	Requested Analysis Filtered (Y/N)																							
1	YAT-YGWC-23S	WG	G			--	--		5	2		3							X	X	X	X		
2	YAT-YAMW-1	WG	G			--	--		5	2		3							X	X	X	X		
3	YAT-AMA-FD-1	WG	G			--	--		5	2		3							X	X	X	X		
4	YAT-YGWC-36A	WG	G			--	--		5	2		3							X	X	X	X		
5	YAT-YGWC-49	WG	G			--	--		5	2		3							X	X	X	X		
6	YAT-YGWC-38	WG	G			--	--		5	2		3							X	X	X	X		
7	YAT-AMA-R6-FD-2	WG	G			--	--		5	2		3							X	X	X	X		
8	YAT-YGWC-41	WG	G			--	--		5	2		3							X	X	X	X		
9	YAT-YGWC-42	WG	G	8/16	1759	--	--		5	2		HN							X	X	X	X		1109
10	YAT-YGWC-43	WG	G	8/16	1158	--	--		5	2		HN							X	X	X	X		1210
11	YAT-YAMW-2	WG	G			--	--		5	2		3							X	X	X	X		
12	YAT-YAMW-3	WG	G	8/16	1640	--	--		5	2		HN							X	X	X	X		1311

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/17/23	0800	/Arcadis	8/17/23	0800	
App III Metals: Boron 6020B, Ca 6010D	/Arcadis	8/17/23	0955	Ryan Williams / Pace	8/17/23	0955	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg).	Ryan Williams / Pace	8/17/23	1254		8-17	1254	

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Jessica Ware					
SIGNATURE of SAMPLER:		DATE Signed: 8/17/23				

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ ~~Kernersville~~ ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO#: 92683384**

PM: BV Due Date: 08/31/23

CLIENT: 92-GP-Yates

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other: ☑ Client

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No

Date/Initials Person Examining Contents: 8-17-23 AJ

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: 5.7 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 5.7

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☑ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☑ Yes	☐ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☐ N/A	8.
Sample Labels Match COC? -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 # **WO# : 92683384**

PM: BV Due Date: 08/31/23

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)
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-202352	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax:	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	Bonnie Yang
Requested Due Date:	Standard	Project Number:		Pace Profile #:	1084D

Regulatory Agency
State / Location
Georgia

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N	Analyses Test: App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	12683384
1	YAT-YAMW-4	WG	G			--	--		6	2		4							X	X	X	X		
2	YAT-YAMW-5	WG	G			--	--		6	2		4							X	X	X	X		
3	YAT-PZ-37	WG	G			--	--		6	2		4							X	X	X	X		
4	YAT-AMA-R6-FD-3	WG	G			--	--		6	2		4							X	X	X	X		
5	YAT-PZ-37D	WG	G			--	--		6	2		4							X	X	X	X		
6	YAT-PZ-51	WG	G	8/16	1047	--	--		6	2		4							X	X	X	X		012
7	YAT-PZ-52D	WG	G			--	--		6	2		4							X	X	X	X		
8	YAT-PZ-35	WG	G			--	--		6	2		4							X	X	X	X		
9	YAT-AMA-R6-EB-1	WG	G	8/16	1753	--	--		6	2		4							X	X	X	X		013
10	YAT-AMA-R6-EB-2	WG	G			--	--		6	2		4							X	X	X	X		
11	YAT-AMA-R6-FB-1	WG	G			--	--		6	2		4							X	X	X	X		
12	YAT-AMA-R6-FB-2	WG	G			--	--		6	2		4							X	X	X	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica Ware /Arcadis	8/17/23	0800	[illegible] Arcadis	8/17/23	0830	
App III Metals: Boron 6020B, Ca 6010D	[illegible] Arcadis	8/17/23	0955	Rhyan Williams /Pace	8/17/23	0955	
App IV Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg).	Rhyan Williams /Pace	8/17/23	1254	[illegible]	8-19	1254	

SAMPLER NAME AND SIGNATURE				TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	(Arcadis) Jessica Ware						
SIGNATURE of SAMPLER:	(Arcadis) [signature]	DATE Signed:	8/17/23				

Pace

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #

WO# : 92683384

PM: BV Due Date: 08/31/23

CLIENT: 92-GP-Yates

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No

Date/Initials Person Examining Contents: 8-17-23 AY

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: 5.7 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 5.7

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☑ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☑ Yes	☐ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8.
Sample Labels Match COC?	☐ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WG				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Qualtrax ID: 69614

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottles**

*****Check all unpreserved Nitrates for chlorine**

Project # WO# : 92683384

PM: BV Due Date: 08/31/23

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)
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 3

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S2	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates AMA-R6	Pace Project Manager	Bonnie Vang
Requested Due Date:	Standard	Project Number:		Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB, C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	9268384
1	YAT-YGWC-23S	WG	G			--	--		5	2		3							X	X	X	X			
2	YAT-YAMW-1	WG	G	8/10/23	1055	--	--		5	2		3							X	X	X	X			014
3	YAT-AMA-FD-1	WG	G	8/10/23	--	--	--		5	2		3							X	X	X	X			015
4	YAT-YGWC-36A	WG	G	8/10/23	1735	--	--		5	2		3							X	X	X	X			016
5	YAT-YGWC-49	WG	G	8/11/23	1618	--	--		5	2		3							X	X	X	X			017
6	YAT-YGWC-38	WG	G			--	--		5	2		3							X	X	X	X			
7	YAT-AMA-R6-FD-2	WG	G			--	--		5	2		3							X	X	X	X			
8	YAT-YGWC-41	WG	G			--	--		5	2		3							X	X	X	X			
9	YAT-YGWC-42	WG	G			--	--		5	2		3							X	X	X	X			
10	YAT-YGWC-43	WG	G			--	--		5	2		3							X	X	X	X			
11	YAT-YAMW-2	WG	G			--	--		5	2		3							X	X	X	X			
12	YAT-YAMW-3	WG	G			--	--		5	2		3							X	X	X	X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/10/23	0957	Ryan Williams / Pace	8/12/23	0955	
App III Metals: Boron 6020B, Ca 6010D	Ryan Williams / Pace	8/12/23	1254		8-12	1254	
App IV Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg).							

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Mark Chastain				
SIGNATURE of SAMPLER:	DATE Signed: 8/10/23				

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S2	Address:	
Email To:	laycoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax:	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	
Requested Due Date:	Standard	Project Number:		Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N	Analyses Test: App III/IV Metals + Ca, Na, K	CL, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	926873B4
1	YAT-YAMW-4	WG	G			—	—		6	2		4							X	X	X	X		
2	YAT-YAMW-5	WG	G			—	—		6	2		4							X	X	X	X		
3	YAT-PZ-37	WG	G			—	—		6	2		4							X	X	X	X		
4	YAT-AMA-R6-FD-3	WG	G			—	—		6	2		4							X	X	X	X		
5	YAT-PZ-37D	WG	G			—	—		6	2		4							X	X	X	X		
6	YAT-PZ-51	WG	G			—	—		6	2		4							X	X	X	X		
7	YAT-PZ-52D	WG	G			—	—		6	2		4							X	X	X	X		
8	YAT-PZ-35	WG	G	8/16/23	1204	—	—		6	2		4							X	X	X	X		0.18
9	YAT-AMA-R6-EB-1	WG	G			—	—		6	2		4							X	X	X	X		
10	YAT-AMA-R6-EB-2	WG	G			—	—		6	2		4							X	X	X	X		
11	YAT-AMA-R6-FB-1	WG	G			—	—		6	2		4							X	X	X	X		
12	YAT-AMA-R6-FB-2	WG	G			—	—		6	2		4							X	X	X	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	(Arcadis)	8/17/23	0955	Ryan William / Pace	8/17/23	0955	
App III Metals: Boron 6020B, Ca 6010D	Ryan William / Pace	8/17/23	1259		8-17	1259	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg).							

SAMPLER NAME AND SIGNATURE				TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	(Arcadis) -	Mark Chesl					
SIGNATURE of SAMPLER	(Arcadis) -		DATE Signed: 8/17/23				

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S2	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	
Requested Due Date:	Standard	Project Number		Pace Profile #:	10840

Regulatory Agency
State / Location
Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N: Analysis Test	App III/IV Metals +Cal, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	926853B4
1	YAT-YGWC-24SB	WG	G	8/16/23	1503	--	--		6	2		4							X	X	X	X		014
2	YAT-YGWC-50	WG	G			--	--		6	2		4							X	X	X	X		
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/17/23	0955	Ryan Williams / Pace	8/17/23	0955	
App III Metals: Boron 6020B, Ca 6010D	Ryan Williams / Pace	8/17/23	1254		8-17	1254	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg).							

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	(Arcadis) - Mark Chesnut		
SIGNATURE of SAMPLER:	(Arcadis) -	DATE Signed:	8/17/23

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO# : 92683384**

PM: BV Due Date: 08/31/23

CLIENT: 92-GP-Yates

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Pace ☐ Other: ☑ Client

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No

Date/Initials Person Examining Contents: 2-1-23A

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: 5.7 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 5.7

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☑ Yes	☐ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8.
Sample Labels Match COC? -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:

Qualtrax ID: 69814

Pace

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottles**

*****Check all unpreserved Nitrates for chlorine**

Project # WO#: 92683384

PM: BV Due Date: 08/31/23

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		1	1	2		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.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-202352	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	Bonnie Hay
Requested Due Date:	Standard	Project Number:		Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	926833B4
1	YAT-YAMW-4	WG	G			--	--		6	2		4							X	X	X	X		
2	YAT-YAMW-5	WG	G			--	--		6	2		4							X	X	X	X		
3	YAT-PZ-37	WG	G			--	--		6	2		4							X	X	X	X		
4	YAT-AMA-R6-FD-3	WG	G			--	--		6	2		4							X	X	X	X		
5	YAT-PZ-37D	WG	G	8/16/23	1720	--	--		6	2		4							X	X	X	X		020
6	YAT-PZ-51	WG	G			--	--		6	2		4							X	X	X	X		
7	YAT-PZ-52D	WG	G			--	--		6	2		4							X	X	X	X		
8	YAT-PZ-35	WG	G			--	--		6	2		4							X	X	X	X		
9	YAT-AMA-R6-EB-1	WG	G			--	--		6	2		4							X	X	X	X		
10	YAT-AMA-R6-EB-2	WG	G			--	--		6	2		4							X	X	X	X		
11	YAT-AMA-R6-FB-1	WG	G			--	--		6	2		4							X	X	X	X		
12	YAT-AMA-R6-FB-2	WG	G			--	--		6	2		4							X	X	X	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/17/23	0830	/Arcadis	8/17/23	0830	
App III Metals: Boron 6020B, Ca 6010D	Arcadis	8/17/23	0955	Ryan Williams /PM	8/17/23	0955	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg).	Ryan Williams /Pm	8/17/23	1254		8-17	1254	

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	(Arcadis) - Mike Swanson		
SIGNATURE of SAMPLER:	(Arcadis) -	DATE Signed:	8/16/23

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co
Address:	Atlanta GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S2	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470 620.6176 Fax	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	Bonnie Vang
Requested Due Date:	Standard TAT	Project Number:		Pace Profile #:	10840

Regulatory Agency: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals + Ca Na K	Cl, F SO4	TDS 2540C	RAD 9315/9320	Residual Chlorine Y/N	
1	YAT-YAMW-4	WG	G			--	--		6	2		4							X	X	X	X		
2	YAT-YAMW-5	WG	G			--	--		6	2		4							X	X	X	X		
3	YAT-PZ-37	WG	G	8/17/23	1020	--	--		6	2		4							X	X	X	X		021
4	YAT-AMA-R6-FD-3	WG	G	8/17/23	—	--	--		6	2		4							X	X	X	X		022
5	YAT-PZ-37D	WG	G			--	--		6	2		4							X	X	X	X		
6	YAT-PZ-51	WG	G			--	--		6	2		4							X	X	X	X		
7	YAT-PZ-52D	WG	G	8/17/23	1420	--	--		6	2		4							X	X	X	X		023
8	YAT-PZ-35	WG	G			--	--		6	2		4							X	X	X	X		
9	YAT-AMA-R6-EB-1	WG	G			--	--		6	2		4							X	X	X	X		
10	YAT-AMA-R6-EB-2	WG	G			--	--		6	2		4							X	X	X	X		
11	YAT-AMA-R6-FB-1	WG	G			--	--		6	2		4							X	X	X	X		
12	YAT-AMA-R6-FB-2	WG	G			--	--		6	2		4							X	X	X	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/17/23	1540	/Arcadis	8/17/23	1540	
App III Metals: Boron 6020B, Ca 6010D	/Arcadis	8/18/23	1105	/Pace	8/18/23	1105	
App IV Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: (Arcadis) - Jake Swanson

SIGNATURE of SAMPLER: (Arcadis) -

DATE Signed 8/17/23

TEMP in C | Received on Ice Y/N | Custody Sealed Cooler (Y/N) | Samples Intact Y/N

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Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S2	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	Bonnie Young
Requested Due Date:	Standard TAT	Project Number		Pace Profile #:	10840

Regulatory Agency

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 903.0/9320	Residual Chlorine (Y/N)	92683384
1	YAT-YAMW-4	WG	G			--	--		6	2		4							X	X	X	X		
2	YAT-YAMW-5	WG	G			--	--		6	2		4							X	X	X	X		
3	YAT-PZ-37	WG	G			--	--		6	2		4							X	X	X	X		
4	YAT-AMA-R6-FD-3	WG	G			--	--		6	2		4							X	X	X	X		
5	YAT-PZ-37D	WG	G			--	--		6	2		4							X	X	X	X		
6	YAT-PZ-51	WG	G			--	--		6	2		4							X	X	X	X		
7	YAT-PZ-52D	WG	G			--	--		6	2		4							X	X	X	X		
8	YAT-PZ-35	WG	G			--	--		6	2		4							X	X	X	X		
9	YAT-AMA-R6-EB-1	WG	G			--	--		6	2		4							X	X	X	X		
10	YAT-AMA-R6-EB-2	WG	G			--	--		6	2		4							X	X	X	X		
11	YAT-AMA-R6-FB-1	WG	G	8/17/23	1155	--	--		6	2		4							X	X	X	X		024
12	YAT-AMA-R6-FB-2	WG	G			--	--		6	2		4							X	X	X	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/17/23	~~1155~~		8/17	1430	
App III Metals Boron 6020B, Ca 6010D	Arcadis	8/18/23	~~1105~~ 1105		8/18/23	1105	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg).							

SAMPLER NAME AND SIGNATURE				
PRINT Name of SAMPLER:	(Arcadis) -	Kim Lapszynski		
SIGNATURE of SAMPLER:	(Arcadis) -		DATE Signed	8/17/23

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: 6c power

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other:____ ☑ Client

Custody Seal Present? ☐ Yes ☐ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 8-14-23 JC

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 083 **Type of Ice:** ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.1 **Correction Factor:** Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 4.1

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: WJ				
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)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			2																		2				
2		1	1			2																		2				
3		1	1			2																		2				
4		1	1			2																		2				
5																												
6																												
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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 hold, incorrect preservative, out of temp, incorrect containers.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : Of

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S2	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	Bonnie Vang
Requested Due Date:	Standard TAT	Project Number:		Pace Profile #:	10840

Regulatory Agency
State / Location
Georgia

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 93159320	Residual Chlorine (Y/N)	
	Requested Analysis Filtered (Y/N)																							92683384
1	YAT-YGWC-23S	WG	G			--	--		5	2		3							X	X	X	X		
2	YAT-YAMW-1	WG	G			--	--		5	2		3							X	X	X	X		
3	YAT-AMA-FD-1	WG	G			--	--		5	2		3							X	X	X	X		
4	YAT-YGWC-36A	WG	G			--	--		5	2		3							X	X	X	X		
5	YAT-YGWC-49	WG	G			--	--		5	2		3							X	X	X	X		
6	YAT-YGWC-38	WG	G			--	--		5	2		3							X	X	X	X		
7	YAT-AMA-R6-FD-2	WG	G			--	--		5	2		3							X	X	X	X		
8	YAT-YGWC-41	WG	G			--	--		5	2		3							X	X	X	X		
9	YAT-YGWC-42	WG	G			--	--		5	2		3							X	X	X	X		
10	YAT-YGWC-43	WG	G			--	--		5	2		3							X	X	X	X		
11	YAT-YAMW-2	WG	G	8/17/23	1230	--	--	6	5	2		3							X	X	X	X		025
12	YAT-YAMW-3	WG	G			--	--		5	2		3							X	X	X	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/17/23	1540	Arcadis	8/17/23	1540	
App III Metals: Boron 6020B, Ca 6010D	Arcadis	8/18/23	1105		8/18/23	1105	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg).							

SAMPLER NAME AND SIGNATURE				
PRINT Name of SAMPLER:	Jake Swanson			
SIGNATURE of SAMPLER:		DATE Signed:	8/17/23	

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-202352	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	Bonnie Young
Requested Due Date:	Standard TAT	Project Number:		Pace Profile #:	10840

Page : Of

Regulatory Agency
State / Location
Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	92683384
1	YAT-YGWC-24SB	WG	G			--	--		6	2		4							X	X	X	X		
2	YAT-YGWC-50	WG	G	8/17/23	1150	--	--		6	2		4							X	X	X	X		026
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/17/23	1430		8/17/23	1430	
App III Metals. Boron 6020B, Ca 6010D		8/18/23	1105		8/18/23	1105	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg).							

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	(Arcadis) -	Kim Lapczynski	
SIGNATURE of SAMPLER:	(Arcadis) -		DATE Signed: 8/17/23

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt
	Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Ga Power

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other:____ ☑ Client

Custody Seal Present? ☐ Yes ☐ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 8-16-23 JC

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 083

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.1 **Correction Factor:** Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.1

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☑ Yes	☐ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☑ Yes	☐ No	☐ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

**Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			2																		2	2			
2		1	1			2																		2	2			
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

September 14, 2023

Lauren Hartley
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

Dear Lauren Hartley:

Enclosed are the analytical results for sample(s) received by the laboratory between August 17, 2023 and August 18, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Geoffrey Gay, Arcadis-ATL
Laura Midkiff, Southern Company
Alex Simpson, Arcadis
Becky Steever, Arcadis
Jessica Ware, Arcadis
Albert Zumbuhl, Arcadis

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

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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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92683386001	**YAT-YGWC-23S**	Water	08/16/23 12:05	08/17/23 09:55
92683386002	**YAT-YGWC-38**	Water	08/16/23 10:20	08/17/23 09:55
92683386003	**YAT-AMA-R6-FD-2**	Water	08/16/23 00:00	08/17/23 09:55
92683386004	**YAT-YGWC-41**	Water	08/16/23 14:55	08/17/23 09:55
92683386005	**YAT-YAMW-4**	Water	08/16/23 16:48	08/17/23 09:55
92683386006	**YAT-YAMW-5**	Water	08/16/23 13:08	08/17/23 09:55
92683386007	**YAT-AMA-R6-EB-2**	Water	08/16/23 17:30	08/17/23 09:55
92683386008	**YAT-AMA-R6-FB-2**	Water	08/16/23 10:55	08/17/23 09:55
92683386009	**YAT-YGWC-42**	Water	08/16/23 17:59	08/17/23 09:55
92683386010	**YAT-YGWC-43**	Water	08/16/23 11:58	08/17/23 09:55
92683386011	**YAT-YAMW-3**	Water	08/16/23 16:40	08/17/23 09:55
92683386012	**YAT-PZ-51**	Water	08/16/23 10:47	08/17/23 09:55
92683386013	**YAT-AMA-R6-EB-1**	Water	08/16/23 17:53	08/17/23 09:55
92683386014	**YAT-YAMW-1**	Water	08/16/23 10:55	08/17/23 09:55
92683386015	**YAT-AMA-FD-1**	Water	08/16/23 00:00	08/17/23 09:55
92683386016	**YAT-YGWC-36A**	Water	08/16/23 17:35	08/17/23 09:55
92683386017	**YAT-YGWC-49**	Water	08/16/23 16:18	08/17/23 09:55
92683386018	**YAT-PZ-35**	Water	08/16/23 12:04	08/17/23 09:55
92683386019	**YAT-YGWC-24SB**	Water	08/16/23 15:03	08/17/23 09:55
92683386020	**YAT-PZ-37D**	Water	08/16/23 17:20	08/17/23 09:55
92683386021	**YAT-PZ-37**	Water	08/17/23 10:20	08/18/23 11:05
92683386022	**YAT-AMA-R6-FD-3**	Water	08/17/23 00:00	08/18/23 11:05
92683386023	**YAT-PZ-52D**	Water	08/17/23 14:20	08/18/23 11:05
92683386024	**YAT-AMA-R6-FB-1**	Water	08/17/23 11:55	08/18/23 11:05
92683386025	**YAT-YAMW-2**	Water	08/17/23 12:30	08/18/23 11:05
92683386026	**YAT-YGWC-50**	Water	08/17/23 11:50	08/18/23 11:05

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SAMPLE ANALYTE COUNT

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92683386001	**YAT-YGWC-23S**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92683386002	**YAT-YGWC-38**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92683386003	**YAT-AMA-R6-FD-2**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92683386004	**YAT-YGWC-41**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92683386005	**YAT-YAMW-4**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92683386006	**YAT-YAMW-5**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92683386007	**YAT-AMA-R6-EB-2**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92683386008	**YAT-AMA-R6-FB-2**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92683386009	**YAT-YGWC-42**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92683386010	**YAT-YGWC-43**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92683386011	**YAT-YAMW-3**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92683386012	**YAT-PZ-51**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92683386013	**YAT-AMA-R6-EB-1**	EPA 9315	SLC	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92683386014	**YAT-YAMW-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92683386015	**YAT-AMA-FD-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92683386016	**YAT-YGWC-36A**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92683386017	**YAT-YGWC-49**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92683386018	**YAT-PZ-35**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92683386019	**YAT-YGWC-24SB**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92683386020	**YAT-PZ-37D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92683386021	**YAT-PZ-37**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92683386022	**YAT-AMA-R6-FD-3**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92683386023	**YAT-PZ-52D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92683386024	**YAT-AMA-R6-FB-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92683386025	**YAT-YAMW-2**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		Total Radium Calculation	LAL	1	PASI-PA
92683386026	**YAT-YGWC-50**	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

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SUMMARY OF DETECTION

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92683386001	**YAT-YGWC-23S**					
EPA 9315	Radium-226	0.163U ± 0.230 (0.496) C:83% T:NA	pCi/L		09/13/23 10:06	
EPA 9320	Radium-228	0.339U ± 0.362 (0.750) C:72% T:79%	pCi/L		09/07/23 11:48	
Total Radium Calculation	Total Radium	0.502U ± 0.592 (1.25)	pCi/L		09/13/23 14:31	
92683386002	**YAT-YGWC-38**					
EPA 9315	Radium-226	0.381U ± 0.257 (0.410) C:99% T:NA	pCi/L		09/13/23 10:06	
EPA 9320	Radium-228	0.236U ± 0.298 (0.629) C:80% T:82%	pCi/L		09/07/23 11:48	
Total Radium Calculation	Total Radium	0.617U ± 0.555 (1.04)	pCi/L		09/13/23 14:31	
92683386003	**YAT-AMA-R6-FD-2**					
EPA 9315	Radium-226	0.304U ± 0.283 (0.533) C:78% T:NA	pCi/L		09/13/23 10:06	
EPA 9320	Radium-228	0.347U ± 0.300 (0.600) C:80% T:88%	pCi/L		09/07/23 11:48	
Total Radium Calculation	Total Radium	0.651U ± 0.583 (1.13)	pCi/L		09/13/23 14:31	
92683386004	**YAT-YGWC-41**					
EPA 9315	Radium-226	0.341U ± 0.275 (0.493) C:86% T:NA	pCi/L		09/13/23 10:06	
EPA 9320	Radium-228	0.892 ± 0.386 (0.620) C:80% T:87%	pCi/L		09/07/23 11:48	
Total Radium Calculation	Total Radium	1.23 ± 0.661 (1.11)	pCi/L		09/13/23 14:31	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92683386005	**YAT-YAMW-4**					
EPA 9315	Radium-226	0.0644U ± 0.199 (0.489) C:88% T:NA	pCi/L		09/13/23 10:06	
EPA 9320	Radium-228	0.367U ± 0.284 (0.553) C:85% T:82%	pCi/L		09/07/23 11:48	
Total Radium Calculation	Total Radium	0.431U ± 0.483 (1.04)	pCi/L		09/13/23 14:31	
92683386006	**YAT-YAMW-5**					
EPA 9315	Radium-226	0.322U ± 0.282 (0.494) C:67% T:NA	pCi/L		09/13/23 10:06	
EPA 9320	Radium-228	0.536U ± 0.356 (0.673) C:78% T:81%	pCi/L		09/07/23 11:48	
Total Radium Calculation	Total Radium	0.858U ± 0.638 (1.17)	pCi/L		09/13/23 14:31	
92683386007	**YAT-AMA-R6-EB-2**					
EPA 9315	Radium-226	0.0438U ± 0.198 (0.505) C:82% T:NA	pCi/L		09/13/23 10:07	
EPA 9320	Radium-228	0.0350U ± 0.277 (0.639) C:82% T:88%	pCi/L		09/07/23 11:48	
Total Radium Calculation	Total Radium	0.0788U ± 0.475 (1.14)	pCi/L		09/13/23 14:31	
92683386008	**YAT-AMA-R6-FB-2**					
EPA 9315	Radium-226	0.209U ± 0.261 (0.544) C:77% T:NA	pCi/L		09/13/23 11:40	
EPA 9320	Radium-228	1.07 ± 0.450 (0.751) C:80% T:93%	pCi/L		09/07/23 11:49	
Total Radium Calculation	Total Radium	1.28U ± 0.711 (1.30)	pCi/L		09/13/23 14:31	

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SUMMARY OF DETECTION

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92683386009	**YAT-YGWC-42**					
EPA 9315	Radium-226	0.312U ± 0.401 (0.846) C:38% T:NA	pCi/L		09/13/23 11:41	
EPA 9320	Radium-228	0.767U ± 0.447 (0.834) C:75% T:84%	pCi/L		09/07/23 11:49	
Total Radium Calculation	Total Radium	1.08U ± 0.848 (1.68)	pCi/L		09/13/23 14:31	
92683386010	**YAT-YGWC-43**					
EPA 9315	Radium-226	3.77 ± 0.859 (0.470) C:99% T:NA	pCi/L		09/13/23 11:41	
EPA 9320	Radium-228	1.15 ± 0.502 (0.839) C:83% T:75%	pCi/L		09/07/23 11:49	
Total Radium Calculation	Total Radium	4.92 ± 1.36 (1.31)	pCi/L		09/13/23 14:31	
92683386011	**YAT-YAMW-3**					
EPA 9315	Radium-226	1.44 ± 0.561 (0.681) C:68% T:NA	pCi/L		09/13/23 11:41	
EPA 9320	Radium-228	1.33 ± 0.496 (0.754) C:84% T:86%	pCi/L		09/07/23 11:49	
Total Radium Calculation	Total Radium	2.77 ± 1.06 (1.44)	pCi/L		09/13/23 14:31	
92683386012	**YAT-PZ-51**					
EPA 9315	Radium-226	0.361U ± 0.288 (0.525) C:85% T:NA	pCi/L		09/13/23 11:41	
EPA 9320	Radium-228	0.563U ± 0.383 (0.739) C:79% T:91%	pCi/L		09/07/23 11:52	
Total Radium Calculation	Total Radium	0.924U ± 0.671 (1.26)	pCi/L		09/13/23 14:31	

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SUMMARY OF DETECTION

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92683386013	**YAT-AMA-R6-EB-1**					
EPA 9315	Radium-226	-0.0452U ± 0.223 (0.643) C:65% T:NA	pCi/L		09/13/23 11:41	
EPA 9320	Radium-228	-0.0186U ± 0.314 (0.729) C:85% T:90%	pCi/L		09/07/23 11:50	
Total Radium Calculation	Total Radium	0.000U ± 0.537 (1.37)	pCi/L		09/13/23 14:31	
92683386014	**YAT-YAMW-1**					
EPA 9315	Radium-226	0.172U ± 0.220 (0.461) C:89% T:NA	pCi/L		09/13/23 11:41	
EPA 9320	Radium-228	0.403U ± 0.286 (0.544) C:87% T:89%	pCi/L		09/07/23 14:58	
Total Radium Calculation	Total Radium	0.575U ± 0.506 (1.01)	pCi/L		09/13/23 14:31	
92683386015	**YAT-AMA-FD-1**					
EPA 9315	Radium-226	0.340U ± 0.309 (0.592) C:80% T:NA	pCi/L		09/13/23 11:42	
EPA 9320	Radium-228	0.555U ± 0.347 (0.636) C:85% T:79%	pCi/L		09/07/23 14:58	
Total Radium Calculation	Total Radium	0.895U ± 0.656 (1.23)	pCi/L		09/13/23 14:31	
92683386016	**YAT-YGWC-36A**					
EPA 9315	Radium-226	0.00320U ± 0.207 (0.555) C:82% T:NA	pCi/L		09/13/23 11:42	
EPA 9320	Radium-228	0.316U ± 0.291 (0.586) C:85% T:83%	pCi/L		09/07/23 14:58	
Total Radium Calculation	Total Radium	0.319U ± 0.498 (1.14)	pCi/L		09/13/23 14:31	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92683386017	**YAT-YGWC-49**					
EPA 9315	Radium-226	0.347U ± 0.284 (0.515) C:79% T:NA	pCi/L		09/13/23 11:42	
EPA 9320	Radium-228	0.635U ± 0.417 (0.804) C:81% T:90%	pCi/L		09/07/23 14:59	
Total Radium Calculation	Total Radium	0.982U ± 0.701 (1.32)	pCi/L		09/13/23 14:31	
92683386018	**YAT-PZ-35**					
EPA 9315	Radium-226	0.284U ± 0.361 (0.764) C:85% T:NA	pCi/L		09/13/23 11:43	
EPA 9320	Radium-228	0.359U ± 0.380 (0.792) C:85% T:81%	pCi/L		09/07/23 14:59	
Total Radium Calculation	Total Radium	0.643U ± 0.741 (1.56)	pCi/L		09/13/23 15:31	
92683386019	**YAT-YGWC-24SB**					
EPA 9315	Radium-226	0.191U ± 0.329 (0.744) C:89% T:NA	pCi/L		09/13/23 11:43	
EPA 9320	Radium-228	0.698U ± 0.416 (0.782) C:87% T:85%	pCi/L		09/07/23 14:59	
Total Radium Calculation	Total Radium	0.889U ± 0.745 (1.53)	pCi/L		09/13/23 15:31	
92683386020	**YAT-PZ-37D**					
EPA 9315	Radium-226	1.02 ± 0.513 (0.655) C:77% T:NA	pCi/L		09/13/23 11:43	
EPA 9320	Radium-228	1.03 ± 0.459 (0.786) C:87% T:89%	pCi/L		09/07/23 14:59	
Total Radium Calculation	Total Radium	2.05 ± 0.972 (1.44)	pCi/L		09/13/23 15:31	

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SUMMARY OF DETECTION

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92683386021	**YAT-PZ-37**					
EPA 9315	Radium-226	1.01 ± 0.503 (0.699) C:85% T:NA	pCi/L		09/13/23 13:26	
EPA 9320	Radium-228	0.892 ± 0.434 (0.762) C:83% T:84%	pCi/L		09/08/23 11:53	
Total Radium Calculation	Total Radium	1.90 ± 0.937 (1.46)	pCi/L		09/13/23 15:34	
92683386022	**YAT-AMA-R6-FD-3**					
EPA 9315	Radium-226	1.34 ± 0.559 (0.651) C:87% T:NA	pCi/L		09/13/23 13:26	
EPA 9320	Radium-228	0.453U ± 0.385 (0.779) C:80% T:85%	pCi/L		09/08/23 11:53	
Total Radium Calculation	Total Radium	1.79 ± 0.944 (1.43)	pCi/L		09/13/23 15:34	
92683386023	**YAT-PZ-52D**					
EPA 9315	Radium-226	0.920 ± 0.515 (0.772) C:80% T:NA	pCi/L		09/13/23 13:26	
EPA 9320	Radium-228	0.958 ± 0.443 (0.758) C:83% T:88%	pCi/L		09/08/23 11:53	
Total Radium Calculation	Total Radium	1.88 ± 0.958 (1.53)	pCi/L		09/13/23 15:34	
92683386024	**YAT-AMA-R6-FB-1**					
EPA 9315	Radium-226	0.361U ± 0.394 (0.791) C:70% T:NA	pCi/L		09/13/23 13:26	
EPA 9320	Radium-228	0.109U ± 0.273 (0.611) C:80% T:85%	pCi/L		09/08/23 14:57	
Total Radium Calculation	Total Radium	0.470U ± 0.667 (1.40)	pCi/L		09/13/23 15:34	

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SUMMARY OF DETECTION

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92683386025	**YAT-YAMW-2**					
EPA 9315	Radium-226	0.410U ± 0.349 (0.627) C:85% T:NA	pCi/L		09/13/23 13:27	
EPA 9320	Radium-228	0.276U ± 0.295 (0.609) C:75% T:91%	pCi/L		09/08/23 14:57	
Total Radium Calculation	Total Radium	0.686U ± 0.644 (1.24)	pCi/L		09/13/23 15:34	
92683386026	**YAT-YGWC-50**					
EPA 9315	Radium-226	0.428U ± 0.368 (0.672) C:87% T:NA	pCi/L		09/13/23 13:27	
EPA 9320	Radium-228	0.666 ± 0.372 (0.655) C:74% T:83%	pCi/L		09/08/23 14:57	
Total Radium Calculation	Total Radium	1.09U ± 0.740 (1.33)	pCi/L		09/13/23 15:34	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

Sample: YAT-YGWC-23S **Lab ID: 92683386001** Collected: 08/16/23 12:05 Received: 08/17/23 09:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.163U ± 0.230 (0.496) C:83% T:NA**	pCi/L	09/13/23 10:06	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.339U ± 0.362 (0.750) C:72% T:79%**	pCi/L	09/07/23 11:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.502U ± 0.592 (1.25)**	pCi/L	09/13/23 14:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

Sample: YAT-YGWC-38 **Lab ID: 92683386002** Collected: 08/16/23 10:20 Received: 08/17/23 09:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.381U ± 0.257 (0.410) C:99% T:NA**	pCi/L	09/13/23 10:06	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.236U ± 0.298 (0.629) C:80% T:82%**	pCi/L	09/07/23 11:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.617U ± 0.555 (1.04)**	pCi/L	09/13/23 14:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

Sample: YAT-AMA-R6-FD-2 **Lab ID: 92683386003** Collected: 08/16/23 00:00 Received: 08/17/23 09:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.304U ± 0.283 (0.533) C:78% T:NA**	pCi/L	09/13/23 10:06	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.347U ± 0.300 (0.600) C:80% T:88%**	pCi/L	09/07/23 11:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.651U ± 0.583 (1.13)**	pCi/L	09/13/23 14:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

Sample: YAT-YGWC-41 **Lab ID: 92683386004** Collected: 08/16/23 14:55 Received: 08/17/23 09:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.341U ± 0.275 (0.493) C:86% T:NA**	pCi/L	09/13/23 10:06	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.892 ± 0.386 (0.620) C:80% T:87%**	pCi/L	09/07/23 11:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.23 ± 0.661 (1.11)**	pCi/L	09/13/23 14:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

Sample: YAT-YAMW-4 **Lab ID: 92683386005** Collected: 08/16/23 16:48 Received: 08/17/23 09:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0644U ± 0.199 (0.489) C:88% T:NA**	pCi/L	09/13/23 10:06	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.367U ± 0.284 (0.553) C:85% T:82%**	pCi/L	09/07/23 11:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.431U ± 0.483 (1.04)**	pCi/L	09/13/23 14:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

Sample: YAT-YAMW-5 **Lab ID: 92683386006** Collected: 08/16/23 13:08 Received: 08/17/23 09:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.322U ± 0.282 (0.494) C:67% T:NA**	pCi/L	09/13/23 10:06	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.536U ± 0.356 (0.673) C:78% T:81%**	pCi/L	09/07/23 11:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.858U ± 0.638 (1.17)**	pCi/L	09/13/23 14:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

Sample: YAT-AMA-R6-EB-2 **Lab ID: 92683386007** Collected: 08/16/23 17:30 Received: 08/17/23 09:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0438U ± 0.198 (0.505) C:82% T:NA**	pCi/L	09/13/23 10:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0350U ± 0.277 (0.639) C:82% T:88%**	pCi/L	09/07/23 11:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.0788U ± 0.475 (1.14)**	pCi/L	09/13/23 14:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

Sample: YAT-AMA-R6-FB-2 **Lab ID: 92683386008** Collected: 08/16/23 10:55 Received: 08/17/23 09:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.209U ± 0.261 (0.544) C:77% T:NA**	pCi/L	09/13/23 11:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.07 ± 0.450 (0.751) C:80% T:93%**	pCi/L	09/07/23 11:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.28U ± 0.711 (1.30)**	pCi/L	09/13/23 14:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

Sample: YAT-YGWC-42 **Lab ID: 92683386009** Collected: 08/16/23 17:59 Received: 08/17/23 09:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.312U ± 0.401 (0.846) C:38% T:NA**	pCi/L	09/13/23 11:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.767U ± 0.447 (0.834) C:75% T:84%**	pCi/L	09/07/23 11:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.08U ± 0.848 (1.68)**	pCi/L	09/13/23 14:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

Sample: YAT-YGWC-43 **Lab ID: 92683386010** Collected: 08/16/23 11:58 Received: 08/17/23 09:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**3.77 ± 0.859 (0.470) C:99% T:NA**	pCi/L	09/13/23 11:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.15 ± 0.502 (0.839) C:83% T:75%**	pCi/L	09/07/23 11:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**4.92 ± 1.36 (1.31)**	pCi/L	09/13/23 14:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

Sample: YAT-YAMW-3 **Lab ID: 92683386011** Collected: 08/16/23 16:40 Received: 08/17/23 09:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**1.44 ± 0.561 (0.681) C:68% T:NA**	pCi/L	09/13/23 11:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.33 ± 0.496 (0.754) C:84% T:86%**	pCi/L	09/07/23 11:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.77 ± 1.06 (1.44)**	pCi/L	09/13/23 14:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

Sample: YAT-PZ-51 **Lab ID: 92683386012** Collected: 08/16/23 10:47 Received: 08/17/23 09:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.361U ± 0.288 (0.525) C:85% T:NA**	pCi/L	09/13/23 11:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.563U ± 0.383 (0.739) C:79% T:91%**	pCi/L	09/07/23 11:52	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.924U ± 0.671 (1.26)**	pCi/L	09/13/23 14:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

Sample: YAT-AMA-R6-EB-1 **Lab ID: 92683386013** Collected: 08/16/23 17:53 Received: 08/17/23 09:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**-0.0452U ± 0.223 (0.643) C:65% T:NA**	pCi/L	09/13/23 11:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.0186U ± 0.314 (0.729) C:85% T:90%**	pCi/L	09/07/23 11:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.000U ± 0.537 (1.37)**	pCi/L	09/13/23 14:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

Sample: YAT-YAMW-1 **Lab ID: 92683386014** Collected: 08/16/23 10:55 Received: 08/17/23 09:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.172U ± 0.220 (0.461) C:89% T:NA**	pCi/L	09/13/23 11:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.403U ± 0.286 (0.544) C:87% T:89%**	pCi/L	09/07/23 14:58	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.575U ± 0.506 (1.01)**	pCi/L	09/13/23 14:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

Sample: YAT-AMA-FD-1 **Lab ID: 92683386015** Collected: 08/16/23 00:00 Received: 08/17/23 09:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.340U ± 0.309 (0.592) C:80% T:NA**	pCi/L	09/13/23 11:42	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.555U ± 0.347 (0.636) C:85% T:79%**	pCi/L	09/07/23 14:58	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.895U ± 0.656 (1.23)**	pCi/L	09/13/23 14:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

Sample: YAT-YGWC-36A **Lab ID: 92683386016** Collected: 08/16/23 17:35 Received: 08/17/23 09:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.00320U ± 0.207 (0.555) C:82% T:NA**	pCi/L	09/13/23 11:42	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.316U ± 0.291 (0.586) C:85% T:83%**	pCi/L	09/07/23 14:58	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.319U ± 0.498 (1.14)**	pCi/L	09/13/23 14:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

Sample: YAT-YGWC-49 **Lab ID: 92683386017** Collected: 08/16/23 16:18 Received: 08/17/23 09:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.347U ± 0.284 (0.515) C:79% T:NA**	pCi/L	09/13/23 11:42	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.635U ± 0.417 (0.804) C:81% T:90%**	pCi/L	09/07/23 14:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.982U ± 0.701 (1.32)**	pCi/L	09/13/23 14:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

Sample: YAT-PZ-35 **Lab ID: 92683386018** Collected: 08/16/23 12:04 Received: 08/17/23 09:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.284U ± 0.361 (0.764) C:85% T:NA**	pCi/L	09/13/23 11:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.359U ± 0.380 (0.792) C:85% T:81%**	pCi/L	09/07/23 14:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.643U ± 0.741 (1.56)**	pCi/L	09/13/23 15:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

Sample: YAT-YGWC-24SB **Lab ID: 92683386019** Collected: 08/16/23 15:03 Received: 08/17/23 09:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.191U ± 0.329 (0.744) C:89% T:NA**	pCi/L	09/13/23 11:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.698U ± 0.416 (0.782) C:87% T:85%**	pCi/L	09/07/23 14:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.889U ± 0.745 (1.53)**	pCi/L	09/13/23 15:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

Sample: YAT-PZ-37D **Lab ID: 92683386020** Collected: 08/16/23 17:20 Received: 08/17/23 09:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**1.02 ± 0.513 (0.655) C:77% T:NA**	pCi/L	09/13/23 11:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.03 ± 0.459 (0.786) C:87% T:89%**	pCi/L	09/07/23 14:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.05 ± 0.972 (1.44)**	pCi/L	09/13/23 15:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

Sample: YAT-PZ-37 **Lab ID: 92683386021** Collected: 08/17/23 10:20 Received: 08/18/23 11:05 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	**1.01 ± 0.503 (0.699) C:85% T:NA**	pCi/L	09/13/23 13:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.892 ± 0.434 (0.762) C:83% T:84%**	pCi/L	09/08/23 11:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.90 ± 0.937 (1.46)**	pCi/L	09/13/23 15:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

Sample: YAT-AMA-R6-FD-3 **Lab ID: 92683386022** Collected: 08/17/23 00:00 Received: 08/18/23 11:05 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	**1.34 ± 0.559 (0.651) C:87% T:NA**	pCi/L	09/13/23 13:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.453U ± 0.385 (0.779) C:80% T:85%**	pCi/L	09/08/23 11:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.79 ± 0.944 (1.43)**	pCi/L	09/13/23 15:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

Sample: YAT-PZ-52D **Lab ID: 92683386023** Collected: 08/17/23 14:20 Received: 08/18/23 11:05 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	**0.920 ± 0.515 (0.772) C:80% T:NA**	pCi/L	09/13/23 13:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.958 ± 0.443 (0.758) C:83% T:88%**	pCi/L	09/08/23 11:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.88 ± 0.958 (1.53)**	pCi/L	09/13/23 15:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

Sample: YAT-AMA-R6-FB-1 **Lab ID: 92683386024** Collected: 08/17/23 11:55 Received: 08/18/23 11:05 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	**0.361U ± 0.394 (0.791) C:70% T:NA**	pCi/L	09/13/23 13:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.109U ± 0.273 (0.611) C:80% T:85%**	pCi/L	09/08/23 14:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.470U ± 0.667 (1.40)**	pCi/L	09/13/23 15:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

Sample: YAT-YAMW-2 **Lab ID: 92683386025** Collected: 08/17/23 12:30 Received: 08/18/23 11:05 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	**0.410U ± 0.349 (0.627) C:85% T:NA**	pCi/L	09/13/23 13:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.276U ± 0.295 (0.609) C:75% T:91%**	pCi/L	09/08/23 14:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.686U ± 0.644 (1.24)**	pCi/L	09/13/23 15:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

Sample: YAT-YGWC-50 **Lab ID: 92683386026** Collected: 08/17/23 11:50 Received: 08/18/23 11:05 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	**0.428U ± 0.368 (0.672) C:87% T:NA**	pCi/L	09/13/23 13:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.666 ± 0.372 (0.655) C:74% T:83%**	pCi/L	09/08/23 14:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.09U ± 0.740 (1.33)**	pCi/L	09/13/23 15:34	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

QC Batch: 611587
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92683386001, 92683386002, 92683386003, 92683386004, 92683386005, 92683386006, 92683386007, 92683386008, 92683386009, 92683386010, 92683386011, 92683386012, 92683386013

METHOD BLANK: 2976848 Matrix: Water
Associated Lab Samples: 92683386001, 92683386002, 92683386003, 92683386004, 92683386005, 92683386006, 92683386007, 92683386008, 92683386009, 92683386010, 92683386011, 92683386012, 92683386013

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.386 ± 0.277 (0.528) C:83% T:92%	pCi/L	09/07/23 11:47	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

QC Batch: 612653
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92683386001, 92683386002, 92683386003, 92683386004, 92683386005, 92683386006, 92683386007, 92683386008, 92683386009, 92683386010, 92683386011, 92683386012, 92683386013, 92683386014, 92683386015, 92683386016, 92683386017

METHOD BLANK: 2982188
Matrix: Water
Associated Lab Samples: 92683386001, 92683386002, 92683386003, 92683386004, 92683386005, 92683386006, 92683386007, 92683386008, 92683386009, 92683386010, 92683386011, 92683386012, 92683386013, 92683386014, 92683386015, 92683386016, 92683386017

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.265 ± 0.268 (0.528) C:84% T:NA	pCi/L	09/13/23 10:05	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

QC Batch: 611588
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92683386014, 92683386015, 92683386016, 92683386017, 92683386018, 92683386019, 92683386020

METHOD BLANK: 2976852
Matrix: Water
Associated Lab Samples: 92683386014, 92683386015, 92683386016, 92683386017, 92683386018, 92683386019, 92683386020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.118 ± 0.231 (0.509) C:88% T:94%	pCi/L	09/07/23 14:58	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

QC Batch: 612655
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92683386018, 92683386019, 92683386020

METHOD BLANK: 2982189 Matrix: Water
Associated Lab Samples: 92683386018, 92683386019, 92683386020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0574 ± 0.265 (0.671) C:94% T:NA	pCi/L	09/13/23 11:43	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

QC Batch: 612656
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92683386021, 92683386022, 92683386023, 92683386024, 92683386025, 92683386026

METHOD BLANK: 2982190
Matrix: Water
Associated Lab Samples: 92683386021, 92683386022, 92683386023, 92683386024, 92683386025, 92683386026

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.438 ± 0.430 (0.847) C:79% T:NA	pCi/L	09/13/23 13:30	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

QC Batch: 611591
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92683386024, 92683386025, 92683386026

METHOD BLANK: 2976859
Matrix: Water
Associated Lab Samples: 92683386024, 92683386025, 92683386026

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.768 ± 0.332 (0.493) C:77% T:88%	pCi/L	09/08/23 14:59	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

QC Batch: 611590
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92683386021, 92683386022, 92683386023

METHOD BLANK: 2976857 Matrix: Water
Associated Lab Samples: 92683386021, 92683386022, 92683386023

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.0613 ± 0.274 (0.661) C:83% T:83%	pCi/L	09/08/23 11:54	

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QUALIFIERS

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92683386001	**YAT-YGWC-23S**	EPA 9315	612653		
92683386002	**YAT-YGWC-38**	EPA 9315	612653		
92683386003	**YAT-AMA-R6-FD-2**	EPA 9315	612653		
92683386004	**YAT-YGWC-41**	EPA 9315	612653		
92683386005	**YAT-YAMW-4**	EPA 9315	612653		
92683386006	**YAT-YAMW-5**	EPA 9315	612653		
92683386007	**YAT-AMA-R6-EB-2**	EPA 9315	612653		
92683386008	**YAT-AMA-R6-FB-2**	EPA 9315	612653		
92683386009	**YAT-YGWC-42**	EPA 9315	612653		
92683386010	**YAT-YGWC-43**	EPA 9315	612653		
92683386011	**YAT-YAMW-3**	EPA 9315	612653		
92683386012	**YAT-PZ-51**	EPA 9315	612653		
92683386013	**YAT-AMA-R6-EB-1**	EPA 9315	612653		
92683386014	**YAT-YAMW-1**	EPA 9315	612653		
92683386015	**YAT-AMA-FD-1**	EPA 9315	612653		
92683386016	**YAT-YGWC-36A**	EPA 9315	612653		
92683386017	**YAT-YGWC-49**	EPA 9315	612653		
92683386018	**YAT-PZ-35**	EPA 9315	612655		
92683386019	**YAT-YGWC-24SB**	EPA 9315	612655		
92683386020	**YAT-PZ-37D**	EPA 9315	612655		
92683386021	**YAT-PZ-37**	EPA 9315	612656		
92683386022	**YAT-AMA-R6-FD-3**	EPA 9315	612656		
92683386023	**YAT-PZ-52D**	EPA 9315	612656		
92683386024	**YAT-AMA-R6-FB-1**	EPA 9315	612656		
92683386025	**YAT-YAMW-2**	EPA 9315	612656		
92683386026	**YAT-YGWC-50**	EPA 9315	612656		
92683386001	**YAT-YGWC-23S**	EPA 9320	611587		
92683386002	**YAT-YGWC-38**	EPA 9320	611587		
92683386003	**YAT-AMA-R6-FD-2**	EPA 9320	611587		
92683386004	**YAT-YGWC-41**	EPA 9320	611587		
92683386005	**YAT-YAMW-4**	EPA 9320	611587		
92683386006	**YAT-YAMW-5**	EPA 9320	611587		
92683386007	**YAT-AMA-R6-EB-2**	EPA 9320	611587		
92683386008	**YAT-AMA-R6-FB-2**	EPA 9320	611587		
92683386009	**YAT-YGWC-42**	EPA 9320	611587		
92683386010	**YAT-YGWC-43**	EPA 9320	611587		
92683386011	**YAT-YAMW-3**	EPA 9320	611587		
92683386012	**YAT-PZ-51**	EPA 9320	611587		
92683386013	**YAT-AMA-R6-EB-1**	EPA 9320	611587		
92683386014	**YAT-YAMW-1**	EPA 9320	611588		
92683386015	**YAT-AMA-FD-1**	EPA 9320	611588		
92683386016	**YAT-YGWC-36A**	EPA 9320	611588		
92683386017	**YAT-YGWC-49**	EPA 9320	611588		
92683386018	**YAT-PZ-35**	EPA 9320	611588		
92683386019	**YAT-YGWC-24SB**	EPA 9320	611588		
92683386020	**YAT-PZ-37D**	EPA 9320	611588		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates AMA-R6- RADs
Pace Project No.: 92683386

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92683386021	**YAT-PZ-37**	EPA 9320	611590		
92683386022	**YAT-AMA-R6-FD-3**	EPA 9320	611590		
92683386023	**YAT-PZ-52D**	EPA 9320	611590		
92683386024	**YAT-AMA-R6-FB-1**	EPA 9320	611591		
92683386025	**YAT-YAMW-2**	EPA 9320	611591		
92683386026	**YAT-YGWC-50**	EPA 9320	611591		
92683386001	**YAT-YGWC-23S**	Total Radium Calculation	615224		
92683386002	**YAT-YGWC-38**	Total Radium Calculation	615224		
92683386003	**YAT-AMA-R6-FD-2**	Total Radium Calculation	615224		
92683386004	**YAT-YGWC-41**	Total Radium Calculation	615224		
92683386005	**YAT-YAMW-4**	Total Radium Calculation	615224		
92683386006	**YAT-YAMW-5**	Total Radium Calculation	615224		
92683386007	**YAT-AMA-R6-EB-2**	Total Radium Calculation	615224		
92683386008	**YAT-AMA-R6-FB-2**	Total Radium Calculation	615224		
92683386009	**YAT-YGWC-42**	Total Radium Calculation	615224		
92683386010	**YAT-YGWC-43**	Total Radium Calculation	615224		
92683386011	**YAT-YAMW-3**	Total Radium Calculation	615224		
92683386012	**YAT-PZ-51**	Total Radium Calculation	615224		
92683386013	**YAT-AMA-R6-EB-1**	Total Radium Calculation	615224		
92683386014	**YAT-YAMW-1**	Total Radium Calculation	615224		
92683386015	**YAT-AMA-FD-1**	Total Radium Calculation	615224		
92683386016	**YAT-YGWC-36A**	Total Radium Calculation	615224		
92683386017	**YAT-YGWC-49**	Total Radium Calculation	615224		
92683386018	**YAT-PZ-35**	Total Radium Calculation	615247		
92683386019	**YAT-YGWC-24SB**	Total Radium Calculation	615247		
92683386020	**YAT-PZ-37D**	Total Radium Calculation	615247		
92683386021	**YAT-PZ-37**	Total Radium Calculation	615249		
92683386022	**YAT-AMA-R6-FD-3**	Total Radium Calculation	615249		
92683386023	**YAT-PZ-52D**	Total Radium Calculation	615249		
92683386024	**YAT-AMA-R6-FB-1**	Total Radium Calculation	615249		
92683386025	**YAT-YAMW-2**	Total Radium Calculation	615249		
92683386026	**YAT-YGWC-50**	Total Radium Calculation	615249		

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DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mec... ☐

Sample Condition Upon Receipt

Client Name: QA Power

Project #:

WO# : 92683386

92683386

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other: ☑ Client

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No

Date/Initials Person Examining Contents: 2-17-23

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☑ No ☐ N/A

Thermometer: ☑ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 5.7 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): 5.7

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☑ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☑ Yes	☐ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used? -Pace Containers Used?	☑ Yes ☑ Yes	☐ No ☐ No	☐ N/A ☐ N/A	6.
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)		BP3B-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1	2		2																							
2		1	1	2		2																							
3		1	1	2		2																							
4		1	1	2		2																							
5		1	1	2		2																							
6		1	1	2		2																							
7		1	1	2		2																							
8		1	1	2		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.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 2

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	tlucoker@southernco.com
Phone:	470.620.6176 Fax:
Requested Due Date:	Standard

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Task No:	YAT-CCR-ASSMT-202352
Purchase Order #:	
Project Name:	Plant Yates AMA-R6
Project Number:	

Section C — Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Bonnie Vang
Pace Profile #:	10840

Regulatory Agency

State / Location: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	9260337860
1	YAT-YGWC-23S	WG	G	8/16/23	1205	-	-		6	5	2	3							X	X	X	X		
2	YAT-YAMW-1	WG	G			-	-		5	2	3								X	X	X	X		
3	YAT-AMA-FD-1	WG	G			-	-		5	2	3								X	X	X	X		
4	YAT-YGWC-36A	WG	G			-	-		5	2	3								X	X	X	X		
5	YAT-YGWC-49	WG	G			-	-		5	2	3								X	X	X	X		
6	YAT-YGWC-38	WG	G	8/16/23	1020	-	-		6	5	2	3							X	X	X	X		
7	YAT-AMA-R6-FD-2	WG	G	8/16/23	—	-	-		6	5	2	3							X	X	X	X		
8	YAT-YGWC-41	WG	G	8/16/23	1455	-	-		6	5	2	3							X	X	X	X		
9	YAT-YGWC-42	WG	G			-	-		5	2	3								X	X	X	X		
10	YAT-YGWC-43	WG	G			-	-		5	2	3								X	X	X	X		
11	YAT-YAMW-2	WG	G			-	-		5	2	3								X	X	X	X		
12	YAT-YAMW-3	WG	G			-	-		5	2	3								X	X	X	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/17/23	0800		8/17/23	0800	
App III Metals: Boron 6020B, Ca 6010D	/Arcadis	8/17/23	0955	Lynn Williams /Pace	8/17/23	0955	
App IV Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg).	Lynn Williams /Pace	8/17/23	1254		8-17	1254	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tim Lucoker

SIGNATURE of SAMPLER: [signature] DATE Signed: 8/17/23

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 2 of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-202352	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	Brittany Young
Requested Due Date:	Standard	Project Number:		Pace Profile #:	10840

Regulatory Agency
State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	
1	YAT-YAMW-4	WG	G	8/16/23	1648	--	--		6	2		4							X	X	X	X		GL683806
2	YAT-YAMW-5	WG	G	8/16/23	1308	--	--		6	2		4							X	X	X	X		
3	YAT-PZ-37	WG	G			--	--		6	2		4							X	X	X	X		
4	YAT-AMA-R6-FD-3	WG	G			--	--		6	2		4							X	X	X	X		
5	YAT-PZ-37D	WG	G			--	--		6	2		4							X	X	X	X		
6	YAT-PZ-51	WG	G			--	--		6	2		4							X	X	X	X		
7	YAT-PZ-52D	WG	G			--	--		6	2		4							X	X	X	X		
8	YAT-PZ-35	WG	G			--	--		6	2		4							X	X	X	X		
9	YAT-AMA-R6-EB-1	WG	G			--	--		6	2		4							X	X	X	X		
10	YAT-AMA-R6-EB-2	WG	G	8/16/23	1730	--	--		6	2		4							X	X	X	X		USF
11	YAT-AMA-R6-FB-1	WG	G			--	--		6	2		4							X	X	X	X		
12	YAT-AMA-R6-FB-2	WG	G	8/16/23	1055	--	--		6	2		4							X	X	X	X		UW

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/17/23	0800		8/17/23	0800	
App III Metals: Boron 6020B, Ca 6010D	/Arcadis	8/17/23	0955	Kyan Williams/Pace	8/17/23	0955	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Kyan Williams/Pace	8/17/23	1254		8/17	1254	

SAMPLER NAME AND SIGNATURE				TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	(Arcadis) - Kim Lopszynski						
SIGNATURE of SAMPLER:	(Arcadis) -	DATE Signed:	8/17/23				

Pace

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO#: 92683386**

PM: BV Due Date: 09/08/23

CLIENT: 92-GP-Yates

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other: ☑ Client

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No

Date/Initials Person Examining Contents: 2-17-23 H

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: 5.7 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 5.7

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☑ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☑ Yes	☐ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC? -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:

Qualtrax ID: 69814

WO# : 92683386

Project #

PM: BV Due Date: 09/08/23

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-)	DG9N-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AGOU-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1	2		2																							
2		1	1	2		2																							
3		1	1	2		2																							
4																													
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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.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S2	Address:	
Email To:	lgucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	Bonnie Vang
Requested Due Date:	Standard	Project Number:		Pace Profile #:	10840

Regulatory Agency
State / Location
Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	92685396
1	YAT-YGWC-23S	WG	G			--	--		5	2		3							X	X	X	X			
2	YAT-YAMW-1	WG	G			--	--		5	2		3							X	X	X	X			
3	YAT-AMA-FD-1	WG	G			--	--		5	2		3							X	X	X	X			
4	YAT-YGWC-36A	WG	G			--	--		5	2		3							X	X	X	X			
5	YAT-YGWC-49	WG	G			--	--		5	2		3							X	X	X	X			
6	YAT-YGWC-38	WG	G			--	--		5	2		3							X	X	X	X			
7	YAT-AMA-R6-FD-2	WG	G			--	--		5	2		3							X	X	X	X			
8	YAT-YGWC-41	WG	G			--	--		5	2		3							X	X	X	X			
9	YAT-YGWC-42	WG	G	8/16	1757	--	--		5	2		3							X	X	X	X			029
10	YAT-YGWC-43	WG	G	8/16	1158	--	--		5	2		3							X	X	X	X			1210
11	YAT-YAMW-2	WG	G			--	--		5	2		3							X	X	X	X			
12	YAT-YAMW-3	WG	G	8/16	1640	--	--		5	2		3							X	X	X	X			011

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/17/23	0800	/Arcadis	8/17/23	0800	
App III Metals: Boron 6020B, Ca 6010D	/Arcadis	8/17/23	0955	Ryan Williams/Pace	8/17/23	0955	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg).	Ryan Williams/Pace	8/17/23	1254		8/19	1234	

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Jessica Ware					
SIGNATURE of SAMPLER:		DATE Signed: 8/17/23				

Pace

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project **WO#: 92683386**

PM: BV Due Date: 09/08/23

CLIENT: 92-GP-Yates

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other: ☑ Client

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No

Date/Initials Person Examining Contents: 9-17-23 AJ

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: 5.7 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 5.7

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☑ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☑ Yes	☐ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8.
Sample Labels Match COC? -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 # **WO#: 92683386**

PM: BV Due Date: 09/08/23

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		1	1	2		2	1																						
2		1	1	2		2																							
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S2	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax:	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	Bonnie Varg
Requested Due Date:	Standard	Project Number:		Pace Profile #:	10840

Regulatory Agency	
State / Location	Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	926833860
1	YAT-YAMW-4	WG	G			--	--		6	2		4							X	X	X	X		
2	YAT-YAMW-5	WG	G			--	--		6	2		4							X	X	X	X		
3	YAT-PZ-37	WG	G			--	--		6	2		4							X	X	X	X		
4	YAT-AMA-R6-FD-3	WG	G			--	--		6	2		4							X	X	X	X		
5	YAT-PZ-37D	WG	G			--	--		6	2		4							X	X	X	X		
6	YAT-PZ-51	WG	G	8/16	1047	--	--		6	2		4							X	X	X	X			012
7	YAT-PZ-52D	WG	G			--	--		6	2		4							X	X	X	X		
8	YAT-PZ-35	WG	G			--	--		6	2		4							X	X	X	X		
9	YAT-AMA-R6-EB-1	WG	G	8/16	1753	--	--		6	2		4							X	X	X	X			013
10	YAT-AMA-R6-EB-2	WG	G			--	--		6	2		4							X	X	X	X		
11	YAT-AMA-R6-FB-1	WG	G			--	--		6	2		4							X	X	X	X		
12	YAT-AMA-R6-FB-2	WG	G			--	--		6	2		4							X	X	X	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/17/23	0800	Arcadis	8/17/23	0800	
App III Metals: Boron 6020B, Ca 6010D	Arcadis	8/17/23	0955	Rhyan Williams/Pace	8/17/23	0955	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Rhyan Williams/Pace	8/17/23	1254		8-17	1254	

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER:	(Arcadis):	Jessica Ware			
SIGNATURE of SAMPLER:	(Arcadis)		DATE Signed:	8/17/23	

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ ... ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO# : 92683386

PM: BV Due Date: 09/08/23

CLIENT: 92-GP-Yates

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other ☑ Client

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No

Date/Initials Person Examining Contents: 9-17-23 AY

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: 5.7 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 5.7

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☑ Yes	☐ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☐ N/A	8.
Sample Labels Match COC? -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:

Qualtrax ID: 69614

WO#: 92683386

PM: BV Due Date: 09/08/23

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)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1	2		2																							
2		1	1	2		2																							
3		1	1	2		2																							
4		1	1	2		2																							
5		1	1	2		2																							
6		1	1	2		2																							
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12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e Out of hold, incorrect preservative, out of temp, incorrect containers.

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 1 of 3

Section A – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S2	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates AMA-R6	Pace Project Manager	Bonnie Vang
Requested Due Date:	Standard	Project Number:		Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	926833860
1	YAT-YGWC-23S	WG	G			--	--		5	2		3						X	X	X	X	X		
2	YAT-YAMW-1	WG	G	8/14/23	1055	--	--		5	2		3						X	X	X	X	X		014
3	YAT-AMA-FD-1	WG	G	8/14/23	-	--	--		5	2		3						X	X	X	X	X		015
4	YAT-YGWC-36A	WG	G	8/14/23	1735	--	--		5	2		3						X	X	X	X	X		016
5	YAT-YGWC-49	WG	G	8/14/23	1618	--	--		5	2		3						X	X	X	X	X		017
6	YAT-YGWC-38	WG	G			--	--		5	2		3						X	X	X	X	X		
7	YAT-AMA-R6-FD-2	WG	G			--	--		5	2		3						X	X	X	X	X		
8	YAT-YGWC-41	WG	G			--	--		5	2		3						X	X	X	X	X		
9	YAT-YGWC-42	WG	G			--	--		5	2		3						X	X	X	X	X		
10	YAT-YGWC-43	WG	G			--	--		5	2		3						X	X	X	X	X		
11	YAT-YAMW-2	WG	G			--	--		5	2		3						X	X	X	X	X		
12	YAT-YAMW-3	WG	G			--	--		5	2		3						X	X	X	X	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	[signature] /Arcadis	8/17/23	0957	Ryan Williams / Pace	8/17/23	0956	
App III Metals: Boron 6020B, Ca 6010D	Ryan Williams / Pace	8/17/23	1254	[signature]	8-17	1254	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg).							

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Mark Chast					
SIGNATURE of SAMPLER:	[signature]	DATE Signed: 8/17/23				

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSM7-2023S2	Address:	
Email To:	lajcoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax:	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	
Requested Due Date:	Standard	Project Number:		Pace Profile #:	10840

Regulatory Agency
State / Location
Georgia

ITEM #	SAMPLE ID One Character per box (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	92669386
1	YAT-YAMW-4	WG	G			--	--		6	2		4							X	X	X	X		
2	YAT-YAMW-5	WG	G			--	--		6	2		4							X	X	X	X		
3	YAT-PZ-37	WG	G			--	--		6	2		4							X	X	X	X		
4	YAT-AMA-R6-FD-3	WG	G			--	--		6	2		4							X	X	X	X		
5	YAT-PZ-37D	WG	G			--	--		6	2		4							X	X	X	X		
6	YAT-PZ-51	WG	G			--	--		6	2		4							X	X	X	X		
7	YAT-PZ-52D	WG	G			--	--		6	2		4							X	X	X	X		
8	YAT-PZ-35	WG	G	8/11/23	1204	--	--		6	2		4							X	X	X	X		018
9	YAT-AMA-R6-EB-1	WG	G			--	--		6	2		4							X	X	X	X		
10	YAT-AMA-R6-EB-2	WG	G			--	--		5	2		4							X	X	X	X		
11	YAT-AMA-R6-FB-1	WG	G			--	--		6	2		4							X	X	X	X		
12	YAT-AMA-R6-FB-2	WG	G			--	--		6	2		4							X	X	X	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	(Arcadis)	8/17/23	0955	Ryan Williams / Pace	8/17/23	0955	
App III Metals: Boron 6020B, Ca 6010D	Ryan Williams / Pace	8/17/23	1259		8-17	1259	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE				TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	(Arcadis) - Mark Chesla						
SIGNATURE of SAMPLER:	(Arcadis) -	DATE Signed:	8/17/23				

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-202352	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	
Requested Due Date:	Standard	Project Number		Pace Profile #:	10840

Regulatory Agency

State / Location: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE (use valid codes to left)	SAMPLE TYPE (G=GRAB, C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	92683396
1	YAT-YGWC-24SB	WG	G	8/16/23	1503	–	–		6	2		4							X	X	X	X		019
2	YAT-YGWC-50	WG	G			–	–		6	2		4							X	X	X	X		
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/16/23	0955	Ryan Williams / Pace	8/17/23	0955	
App III Metals: Boron 6020B, Ca 6010D	Ryan Williams / Pace	8/17/23	1254		8-17	1254	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg).							

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	(Arcadis) - Mark Chait					
SIGNATURE of SAMPLER:	(Arcadis) -	DATE Signed: 8/17/23				

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO#: 92683386

PM: BV Due Date: 09/08/23

CLIENT: 92-GP-Yates

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other ☑ Client

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No

Date/Initials Person Examining Contents: 9-17-23A

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: 5.7 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 5.7

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☑ Yes	☐ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8.
Sample Labels Match COC? -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:

Qualtrax ID: 69614

Pace

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

WO#: 92683386

PM: BV **Due Date: 09/08/23**

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	2		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.

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 1

Section A Required Client Information		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-202352	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax:	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	Bonnie Hay
Requested Due Date:	Standard	Project Number:		Pace Profile #:	10840

Regulatory Agency
State / Location
Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	92683386
1	YAT-YAMW-4	WG	G			--	--		6	2		4						X	X	X	X	X		
2	YAT-YAMW-5	WG	G			--	--		6	2		4						X	X	X	X	X		
3	YAT-PZ-37	WG	G			--	--		6	2		4						X	X	X	X	X		
4	YAT-AMA-R6-FD-3	WG	G			--	--		6	2		4						X	X	X	X	X		
5	YAT-PZ-37D	WG	G	8/17/23	720	--	--		6	2		4						X	X	X	X	X		GW
6	YAT-PZ-51	WG	G			--	--		6	2		4						X	X	X	X	X		
7	YAT-PZ-52D	WG	G			--	--		6	2		4						X	X	X	X	X		
8	YAT-PZ-35	WG	G			--	--		6	2		4						X	X	X	X	X		
9	YAT-AMA-R6-EB-1	WG	G			--	--		6	2		4						X	X	X	X	X		
10	YAT-AMA-R6-EB-2	WG	G			--	--		6	2		4						X	X	X	X	X		
11	YAT-AMA-R6-FB-1	WG	G			--	--		6	2		4						X	X	X	X	X		
12	YAT-AMA-R6-FB-2	WG	G			--	--		6	2		4						X	X	X	X	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/17/23	0830	/Arcadis	8/17/23	0830	
App III Metals: Boron 6020B, Ca 6010D	Arcadis	8/17/23	0955	Ryan Williams/Pace	8/17/23	0955	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg).	Ryan Williams/Pace	8/17/23	1254		8-17	1254	

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	(Arcadis) - Lee Swanson					
SIGNATURE of SAMPLER:	(Arcadis) -	DATE Signed: 8/16/23				

CHAIN-OF-CUSTODY / Analytical Request Document

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Address:	Atlanta GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S2	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470 620.6176 Fax	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	Bonnie Vang
Requested Due Date:	Standard TAT	Project Number:		Pace Profile #:	10840

Regulatory Agency: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals + Ca Na K	Cl, F, SO4	TDS 2540C	RAD 9315/9320	Residual Chlorine Y/N	
1	YAT-YAMW-4	WG	G			--	--		6	2		4						X	X	X	X			
2	YAT-YAMW-5	WG	G			--	--		6	2		4						X	X	X	X			
3	YAT-PZ-37	WG	G	8/17/23	1020	--	--		6	2		4						X	X	X	X			021
4	YAT-AMA-R6-FD-3	WG	G	8/17/23	—	--	--		6	2		4						X	X	X	X			022
5	YAT-PZ-37D	WG	G			--	--		6	2		4						X	X	X	X			
6	YAT-PZ-51	WG	G			--	--		6	2		4						X	X	X	X			
7	YAT-PZ-52D	WG	G	8/17/23	1420	--	--		6	2		4						X	X	X	X			023
8	YAT-PZ-35	WG	G			--	--		6	2		4						X	X	X	X			
9	YAT-AMA-R6-EB-1	WG	G			--	--		6	2		4						X	X	X	X			
10	YAT-AMA-R6-EB-2	WG	G			--	--		6	2		4						X	X	X	X			
11	YAT-AMA-R6-FB-1	WG	G			--	--		6	2		4						X	X	X	X			
12	YAT-AMA-R6-FB-2	WG	G			--	--		6	2		4						X	X	X	X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/17/23	1540	/Arcadis	8/17/23	1540	
App III Metals: Boron 6020B, Ca 6010D	/Arcadis	8/18/23	1105	/Pace	8/18/23	1105	
App IV Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: (Arcadis) - Jake Swanson

SIGNATURE of SAMPLER: (Arcadis) - DATE Signed 8/17/23

TEMP in C	Received on Ice Y/N	Custody Sealed Cooler (Y/N)	Samples Intact Y/N

92683386

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Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S2	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	Bonnie Young
Requested Due Date:	Standard TAT	Project Number		Pace Profile #:	10840

Regulatory Agency

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 903.0/9320	Residual Chlorine (Y/N)	
	MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS																							
1	YAT-YAMW-4	WG	G			--	--		6	2		4						X	X	X	X			
2	YAT-YAMW-5	WG	G			--	--		6	2		4						X	X	X	X			
3	YAT-PZ-37	WG	G			--	--		6	2		4						X	X	X	X			
4	YAT-AMA-R6-FD-3	WG	G			--	--		6	2		4						X	X	X	X			
5	YAT-PZ-37D	WG	G			--	--		6	2		4						X	X	X	X			
6	YAT-PZ-51	WG	G			--	--		6	2		4						X	X	X	X			
7	YAT-PZ-52D	WG	G			--	--		6	2		4						X	X	X	X			
8	YAT-PZ-35	WG	G			--	--		6	2		4						X	X	X	X			
9	YAT-AMA-R6-EB-1	WG	G			--	--		6	2		4						X	X	X	X			
10	YAT-AMA-R6-EB-2	WG	G			--	--		6	2		4						X	X	X	X			
11	YAT-AMA-R6-FB-1	WG	G	8/17/23	1155	--	--		6	2		4						X	X	X	X			024
12	YAT-AMA-R6-FB-2	WG	G			--	--		6	2		4						X	X	X	X			

92683386

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/17/23	1155		8/17	1430
App III Metals Boron 6020B, Ca 6010D	Arcadis	8/18/23	1105		8/18/23	1105
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg).						

SAMPLE CONDITIONS			
TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: (Arcadis) - Kim Lapszynski

SIGNATURE of SAMPLER: (Arcadis) - DATE Signed 8/17/23

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Ga Power

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other:____ ☑ Client

Custody Seal Present? ☐ Yes ☐ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 8-14-23 JC

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 083 **Type of Ice:** ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.1 **Correction Factor:** Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 4.1

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: 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	

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)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			2																		2				
2		1	1			2																		2				
3		1	1			2																		2				
4		1	1			2																		2				
5																												
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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 hold, incorrect preservative, out of temp, incorrect containers.

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Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S2	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	Bonnie Vang
Requested Due Date:	Standard TAT	Project Number:		Pace Profile #:	10840

Regulatory Agency
State / Location
Georgia

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 93159320	Residual Chlorine (Y/N)	
	Requested Analysis Filtered (Y/N)																							92683386
1	YAT-YGWC-23S	WG	G			--	--		5	2		3							X	X	X	X		
2	YAT-YAMW-1	WG	G			--	--		5	2		3							X	X	X	X		
3	YAT-AMA-FD-1	WG	G			--	--		5	2		3							X	X	X	X		
4	YAT-YGWC-36A	WG	G			--	--		5	2		3							X	X	X	X		
5	YAT-YGWC-49	WG	G			--	--		5	2		3							X	X	X	X		
6	YAT-YGWC-38	WG	G			--	--		5	2		3							X	X	X	X		
7	YAT-AMA-R6-FD-2	WG	G			--	--		5	2		3							X	X	X	X		
8	YAT-YGWC-41	WG	G			--	--		5	2		3							X	X	X	X		
9	YAT-YGWC-42	WG	G			--	--		5	2		3							X	X	X	X		
10	YAT-YGWC-43	WG	G			--	--		5	2		3							X	X	X	X		
11	YAT-YAMW-2	WG	G	8/17/23	1230	--	--	6	5	2		3							X	X	X	X		025
12	YAT-YAMW-3	WG	G			--	--		5	2		3							X	X	X	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/17/23	1540	Arcadis	8/17/23	1540	
App III Metals: Boron 6020B, Ca 6010D	Arcadis	8/18/23	1105		8/18/23	1105	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg).							

SAMPLER NAME AND SIGNATURE				
PRINT Name of SAMPLER:	Jake Swanson			
SIGNATURE of SAMPLER:		DATE Signed:	8/17/23	

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

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Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates AMA-R6	Pace Project Manager:	Bonnie Young
Requested Due Date:	Standard TAT	Project Number:		Pace Profile #:	10840

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Regulatory Agency
State / Location
Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)	9268336
1	YAT-YGWC-24SB	WG	G			--	--		6	2		4							X	X	X	X		
2	YAT-YGWC-50	WG	G	8/17/23	1150	--	--		6	2		4							X	X	X	X		026
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/17/23	1430		8/17/23	1430	
App III Metals. Boron 6020B, Ca 6010D		8/18/23	1105		8/18/23	1105	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg).							

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	(Arcadis) -	Kim Lapczynski	
SIGNATURE of SAMPLER:	(Arcadis) -		DATE Signed: 8/17/23

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Ga Power

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other:____ ☑ Client

Custody Seal Present? ☐ Yes ☐ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 8-16-23 JC

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 083

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.1 **Correction Factor:** Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.1

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☑ Yes	☐ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☑ Yes	☐ No	☐ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

**Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			2																		2				
2		1	1			2																		2				
3																												
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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

Test:	Ra-228
Analyst:	VAL
Date:	8/31/2023
Worklist:	75030
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2976848
MB concentration:	0.386
M/B 2 Sigma CSU:	0.277
MB MDC:	0.528
MB Numerical Performance Indicator:	2.74
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS75030	LCSD75030
Count Date:	9/7/2023	9/7/2023
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	39.920	39.920
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.817	0.819
Target Conc. (pCi/L, g, F):	4.886	4.873
Uncertainty (Calculated):	0.239	0.239
Result (pCi/L, g, F):	4.866	4.674
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.063	0.979
Numerical Performance Indicator:	-0.04	-0.39
Percent Recovery:	99.59%	95.92%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Duplicate Sample Assessment		
Sample I.D.:	LCS75030	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD75030	
Sample Result (pCi/L, g, F):	4.866	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.063	
Sample Duplicate Result (pCi/L, g, F):	4.674	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.979	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.260	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	3.75%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
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:

VAL
9/8/23

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	ZPC
Date:	9/1/2023
Worklist:	75031
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2976852
MB concentration:	0.118
M/B 2 Sigma CSU:	0.231
MB MDC:	0.509
MB Numerical Performance Indicator:	1.00
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS75031	LCSD75031
Count Date:	9/7/2023	9/7/2023
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	39.918	39.918
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.818	0.821
Target Conc. (pCi/L, g, F):	4.878	4.864
Uncertainty (Calculated):	0.239	0.238
Result (pCi/L, g, F):	3.721	3.515
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.829	0.859
Numerical Performance Indicator:	-2.63	-2.97
Percent Recovery:	76.28%	72.27%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Duplicate Sample Assessment		
Sample I.D.:	LCS75031	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD75031	
Sample Result (pCi/L, g, F):	3.721	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.829	
Sample Duplicate Result (pCi/L, g, F):	3.515	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.859	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.338	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	5.41%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
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:

VAL
9/8/23

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test:	Ra-228
Analyst:	VAL
Date:	9/5/2023
Worklist:	75032
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2976857
MB concentration:	-0.061
M/B 2 Sigma CSU:	0.274
MB MDC:	0.661
MB Numerical Performance Indicator:	-0.44
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS75032	LCSD75032
Count Date:	9/8/2023	9/8/2023
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	39.906	39.906
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.816	0.820
Target Conc. (pCi/L, g, F):	4.890	4.868
Uncertainty (Calculated):	0.240	0.239
Result (pCi/L, g, F):	5.009	4.854
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.056	1.035
Numerical Performance Indicator:	0.22	-0.03
Percent Recovery:	102.44%	99.70%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Duplicate Sample Assessment		
Sample I.D.:	LCS75032	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD75032	
Sample Result (pCi/L, g, F):	5.009	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.056	
Sample Duplicate Result (pCi/L, g, F):	4.854	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.035	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.206	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	2.71%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
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:

9/11/23

LAM 9/12/23

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	JJS1
Date:	9/5/2023
Worklist:	75033
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2976859
MB concentration:	0.768
M/B 2 Sigma CSU:	0.332
MB MDC:	0.493
MB Numerical Performance Indicator:	4.53
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS75033	LCSD75033
Count Date:	9/8/2023	
Spike I.D.:	23-043	
Decay Corrected Spike Concentration (pCi/mL):	39.905	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.815	
Target Conc. (pCi/L, g, F):	4.894	
Uncertainty (Calculated):	0.240	
Result (pCi/L, g, F):	4.835	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.039	
Numerical Performance Indicator:	-0.11	
Percent Recovery:	98.81%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	135%	
Lower % Recovery Limits:	60%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	8/8/2023	
Sample I.D.	30616118004	
Sample MS I.D.	30616118005	
Sample MSD I.D.	30616118006	
Spike I.D.:	23-043	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	40.318	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.807	
MS Target Conc.(pCi/L, g, F):	9.994	
MSD Aliquot (L, g, F):	0.807	
MSD Target Conc. (pCi/L, g, F):	9.997	
MS Spike Uncertainty (calculated):	0.490	
MSD Spike Uncertainty (calculated):	0.490	
Sample Result:	1.473	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.526	
Sample Matrix Spike Result:	9.155	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.827	
Sample Matrix Spike Duplicate Result:	9.334	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.884	
MS Numerical Performance Indicator:	-2.310	
MSD Numerical Performance Indicator:	-2.077	
MS Percent Recovery:	76.86%	
MSD Percent Recovery:	78.62%	
MS Status vs Numerical Indicator:	Warning	
MSD Status vs Numerical Indicator:	Warning	
MS Status vs Recovery:	Pass	
MSD Status vs Recovery:	Pass	
MS/MSD Upper % Recovery Limits:	135%	
MS/MSD Lower % Recovery Limits:	60%	

Duplicate Sample Assessment		
Sample I.D.:		Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.		
Sample Result (pCi/L, g, F):		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Duplicate Result (pCi/L, g, F):		
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:		
Duplicate RPD:		
Duplicate Status vs Numerical Indicator:		
Duplicate Status vs RPD:		
% RPD Limit:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.	30616118004	
Sample MS I.D.	30616118005	
Sample MSD I.D.	30616118006	
Sample Matrix Spike Result:	9.155	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.827	
Sample Matrix Spike Duplicate Result:	9.334	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.884	
Duplicate Numerical Performance Indicator:	-0.134	
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:	2.27%	
MS/ MSD Duplicate Status vs Numerical Indicator:	Pass	
MS/ MSD Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:
*The method blank result is below the reporting limit for this analysis and is acceptable.

VAL
9/12/23

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	9/12/2023
Worklist:	75104
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2982188
MB concentration:	0.265
M/B 2 Sigma CSU:	0.268
MB MDC:	0.528
MB Numerical Performance Indicator:	1.94
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS75104	**LCSD75104**
Count Date:	9/13/2023	9/13/2023
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.031	25.031
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.503	0.502
Target Conc. (pCi/L, g, F):	4.980	4.989
Uncertainty (Calculated):	0.234	0.234
Result (pCi/L, g, F):	5.174	4.966
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.095	1.046
Numerical Performance Indicator:	0.34	-0.04
Percent Recovery:	103.89%	99.54%
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.:	LCS75104	92683386017
Duplicate Sample I.D.	LCSD75104	92683386017DUP
Sample Result (pCi/L, g, F):	5.174	0.347
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.095	0.284
Sample Duplicate Result (pCi/L, g, F):	4.966	0.058
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.046	0.237
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.269	1.535
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	4.27%	143.18%
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:

VAM 9/13/23

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	9/13/2023
Worklist:	75105
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2982189
MB concentration:	0.057
M/B 2 Sigma CSU:	0.265
MB MDC:	0.671
MB Numerical Performance Indicator:	0.42
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS75105	LCSD75105
Count Date:	9/13/2023	9/13/2023
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.031	25.031
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.510	0.510
Target Conc. (pCi/L, g, F):	4.910	4.909
Uncertainty (Calculated):	0.231	0.231
Result (pCi/L, g, F):	4.531	4.579
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.154	1.103
Numerical Performance Indicator:	-0.63	-0.57
Percent Recovery:	92.27%	93.28%
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.:	LCS75105	92683140006
Duplicate Sample I.D.	LCSD75105	92683140006DUP
Sample Result (pCi/L, g, F):	4.531	0.449
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.154	0.398
Sample Duplicate Result (pCi/L, g, F):	4.579	0.240
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.103	0.307
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-0.059	0.813
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	1.09%	60.45%
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:

VAM 9/13/23

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	9/13/2023
Worklist:	75106
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2982190
MB concentration:	0.438
M/B 2 Sigma CSU:	0.430
MB MDC:	0.847
MB Numerical Performance Indicator:	2.00
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS75106	**LCSD75106**
Count Date:	9/13/2023	9/13/2023
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.031	25.031
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.506	0.501
Target Conc. (pCi/L, g, F):	4.948	4.999
Uncertainty (Calculated):	0.233	0.235
Result (pCi/L, g, F):	4.951	4.002
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.188	1.046
Numerical Performance Indicator:	0.00	-1.82
Percent Recovery:	100.06%	80.06%
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.:	LCS75106	92683386026
Duplicate Sample I.D.	LCSD75106	92683386026DUP
Sample Result (pCi/L, g, F):	4.951	0.428
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.188	0.368
Sample Duplicate Result (pCi/L, g, F):	4.002	0.305
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.046	0.323
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	1.175	0.489
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	22.21%	33.36%
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:

LAM 9/13/23

Upgradient

Georgia Power Co. – Plant Yates

Data Review Report

Metals, General Chemistry, and Radium Analyses

SDGs #92683124 and 92683132

Analyses Performed By:
Pace Analytical Services – Asheville, North Carolina
Pace Analytical Services – Peachtree Corners, Georgia
Pace Analytical Services – Greensburg, Pennsylvania

Report #51400R
Review Level: Tier II
Project: 30143607.3B

Summary

This Data Review Report summarizes the review of Sample Delivery Groups (SDGs) #92683124 and 92683132 for samples collected in association with the Georgia Power Company – Plant Yates. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the chain of custody form and a table summarizing the data validation qualifiers. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YAT-YGWA-1I	92683124001 92683132001	Waster	8/15/2023		X	X	X
YAT-YGWA-1D	92683124002 92683132002	Water	8/15/2023		X	X	X
YAT-YGWA-2I	92683124003 92683132003	Water	8/15/2023		X	X	X
YAT-YGWA-3D	92683124004 92683132004	Water	8/15/2023		X	X	X
YAT-YGWA-4I	92683124005 92683132005	Water	8/15/2023		X	X	X
YAT-YGWA-5I	92683124006 92683132006	Water	8/15/2023		X	X	X
YAT-YGWA-5D	92683124007 92683132007	Water	8/15/2023		X	X	X
YAT-YGWA-18S	92683124008 92683132008	Water	8/15/2023		X	X	X
YAT-YGWA-18I	92683124009 92683132009	Water	8/15/2023		X	X	X
YAT-YGWA-14S	92683124010 92683132010	Water	8/15/2023		X	X	X
YAT-YGWA-47	92683124011 92683132011	Water	8/15/2023		X	X	X
YAT-GWA-2	92683124012 92683132012	Water	8/15/2023		X	X	X

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YAT-YGWA-17S	92683124013 92683132013	Water	8/15/2023		X	X	X
YAT-YGWA-20S	92683124014 92683132014	Water	8/15/2023		X	X	X
YAT-YGWA-21I	92683124015 92683132015	Water	8/15/2023		X	X	X
YAT-YGWA-39	92683124016 92683132016	Water	8/15/2023		X	X	X
YAT-YGWA-40	92683124017 92683132017	Water	8/15/2023		X	X	X
YAT-YGWA-30I	92683124018 92683132018	Water	8/16/2023		X	X	X
YAT-YGWA-3I	92683124019 92683132019	Water	8/16/2023		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.

Analytes were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS/MSD Analysis

All metal analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD analysis was performed using sample YAT-YGWA-4I in association with SW-846 6010D. The concentration of calcium in the unspiked sample was 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 sample YAT-YGWA-2I in association with SW-846 6020B analysis exhibited recoveries within the control limits.

MS/MSD analysis was not performed using a sample from this SDG in association with SW-846 7470A analysis.

3.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one times the RL is applied for water matrices.

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis in association with SW-846 6010D and SW-846 6020B. The MS/MSD recoveries exhibited acceptable RPDs.

Laboratory duplicate or MS/MSD analysis was not performed using a sample from this SDG in association with SW-846 7470A analysis.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 35% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

A field duplicate sample was not collected in association with this SDG.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for Metals

METALS: SW-846 6010D/6020B/7470A	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES) Inductively Coupled Plasma-Mass Spectrometry (ICP-MS) Atomic Absorption – Manual Cold Vapor (CV)					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks	X				X
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Laboratory Duplicate (RPD)	X				X
Field Duplicate (RPD)	X				X

Notes:

%R Percent recovery

RPD Relative percent difference

General Chemistry Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Total Dissolved Solids (TDS) by SM2540C	Water	7 days from collection to analysis	Cool to <6°C
Chloride, Fluoride, and Sulfate by USEPA 300.0	Water	28 days from collection to analysis	Cool to <6°C

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Analytes were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS/MSD Analysis

All analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory flag will be removed.

The MS/MSD analysis performed using samples YAT-YGWA-14S and YAT-YGWA-3I in association with anions analysis exhibited recoveries within the control limits.

3.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one times the RL is applied for water matrices.

The laboratory duplicate analysis performed using sample YAT-YGWA-14S in association with TDS analysis exhibited an RPD within the control limit.

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis in association with anions. The MS/MSD recoveries exhibited acceptable RPDs.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 35% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

A field duplicate sample was not collected in association with this SDG.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for General Chemistry

General Chemistry: 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 was detected in the method blanks, however, the activity was measured as less than the uncertainty and MDC. Hence, the blank results are considered non-detect and no qualification of the results was required.

Radium-228 was detected in the method blank at an activity greater than the uncertainty and MDC (batch 611586). The NAD was calculated for each sample. The Radium-228 result in sample YAT-YGWA-21I was qualified as "J" since the NAD was less than 1.96. No qualifiers were assigned to the Radium-228 results in samples YAT-YGWA-14S, YAT-YGWA-47, YAT-GWA-2, YAT-YGWA-17S, YAT-YGWA-20S, YAT-YGWA-39, and YAT-YGWA-40 since the activities were less than the MDC.

3. Matrix Spike (MS)/Laboratory Duplicate Analysis

MS and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS Analysis

MS samples are not typically analyzed for gamma spectral content due to the inability of the laboratory to homogenize spike material with the sample.

If performed, the spike analysis must exhibit a percent recovery within the control limits of 70% to 130%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits.

In the event the recovery is outside of this limit, a numerical indicator to make assessments is calculated, with a limit of < ±3 sigma for either.

The numerical performance indicator for a matrix spike sample is calculated by:

$$Z_{MS} = \frac{x - x_0 - c}{\sqrt{u^2(x) + u^2(x_0) + u^2(c)}}$$

Where:

x = measured concentration of the spiked sample.

x_0 = measured concentration of the unspiked sample.

c = spike concentration added.

$u^2(x)$, $u^2(x0)$, $u^2(c)$ = the squares of the respective standard uncertainties of these values.

MS performance for all matrices is acceptable when the numerical performance indicator calculation yields a value between ±3 sigma. Warning limits have been established as ±2 sigma.

MS analysis was not performed using a sample from this SDG.

3.2 Laboratory Duplicate Analysis

Duplicate analyses are indicators of laboratory precision based on each sample matrix. For replicate analysis results to be considered in agreement the duplicate error ratio (DER) must be less than 2.13. In the event the DER is outside of the limit of 2.13, a numerical indicator to make assessments is calculated, with a limit of ±3 sigma or standard deviation.

The numerical performance indicator for laboratory duplicates is calculated by:

$$Z_{Dup} = \frac{x_1 - x_2}{\sqrt{u^2(x_1) + u^2(x_2)}}$$

Where:

x_1, x_2 = two measured activity concentrations.

$u^2(x_1)$, $u^2(x_2)$ = the combined standard uncertainty of each measurement squared.

Duplicate sample performance is acceptable when the numerical performance indicator calculation yields a value between ±3 sigma. Warning limits have been established as ±2 sigma.

Laboratory duplicate analysis was not performed using a sample from this SDG.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. There are no specific review criteria for radiological field replicate analyses comparability. The degree of agreement between these replicates is to be used in conjunction with all of the remaining quality control results as an aid in the decision as to the overall quality of the data. Data are not to be qualified due to field replicates alone. To determine the level of agreement between the replicates, the following guidelines have been established:

Data should be considered in agreement if results are within a factor of four of each other. Data between a factor of four and five of each other should be considered as a minor discrepancy and data greater than a factor of five should be considered a major discrepancy.

A field duplicate sample was not collected in association with this SDG.

5. Tracer or Carrier

Tracers and carriers are used in radiological separation methods to provide evaluation of chemical separation. Chemical yield is evaluated through the recovery of chemical species spiked into samples. Yield is evaluated radiometrically with a tracer and gravimetrically with a carrier. A control limit of 30% to 110% is applied to each sample spiked with either a carrier and/or a tracer.

The tracer and carrier analyses exhibited recoveries within the control limits.

6. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS/LCSD analysis must exhibit a percent recovery between the control limits of 60% to 135%. In the event the recovery is outside of this limit, a numerical indicator to make assessments is calculated, with a limit of +/- 3 sigma.

The numerical performance indicator for a laboratory control sample is calculated by:

$$Z_{LCS} = \frac{x - c}{\sqrt{u^2(x) + u^2(c)}}$$

Where:

x = Analytical result of the LCS

c = Known concentration of the LCS

$u^2(x)$ = combined standard uncertainty of the result squared.

$u^2(c)$ = combined standard uncertainty of the LCS value squared.

LCS performance is acceptable when the numerical performance indicator calculation yields a value between ±3 sigma. Warning limits have been established as ±2 sigma.

The LCS/LCSD analysis exhibited recoveries within the control limits.

7. Isotope Identification

For sample results to be considered “non-detect”, evaluate data based on the following two criteria. If either one of these criteria is true, the sample result is considered “non-detect”.

1. Sample result is less than the uncertainty and less than the MDC/MDA; or
2. Sample has an uncertainty greater than the result (or indistinguishable from background) or result falls between its uncertainty and its MDC/MDA.

Based on the above criteria sample results should be considered non-detect as follows:

- YAT-YGWA-4I – Radium-228
- YAT-YGWA-5I – Radium-226 and total Radium
- YAT-YGWA-2I and YAT-YGWA-47 – Radium-228 and total Radium
- YAT-YGWA-1I, YAT-YGWA-1D, YAT-YGWA-18S, YAT-YGWA-18I, YAT-YGWA-14S, YAT-GWA-2, YAT-YGWA-17S, YAT-YGWA-20S, YAT-YGWA-39, YAT-YGWA-40, and YAT-YGWA-30I – Radium-226, Radium-228, and total Radium

8. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for Radiologicals

Radiologicals: SW-846 9315/9320	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		X		X	
Activity, +/- uncertainty, MDC/MDA		X		X	
Blanks					
A. Method Blanks		X	X		
B. Equipment/Field Blanks	X				X
Carrier (Surrogate) %R		X		X	
Tracer (Surrogate) %R		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS) %R	X				X
Matrix Spike Duplicate (MSD) %R	X				X
MS/MSD Precision (RPD)	X				X
Laboratory Duplicate (RPD)	X				X
Field Duplicate (RPD)	X				X

Notes:

%R Percent recovery

RPD Relative percent difference

VALIDATION PERFORMED BY: Jennifer Singer

SIGNATURE: 

DATE: October 2, 2023

PEER REVIEW: Joseph C. Houser

DATE: October 19, 2023

Chain of Custody / Data Qualifier Summary Table

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 1

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Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S2	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax:	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	~~Nicole D'Orio~~ Bonne
Requested Due Date:	Standard	Project Number:		Pace Profile #:	~~10840~~ 1165, 1 Vary

Regulatory Agency: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals +Ge,Hg,Tl	Cl, F, SO4	TDS (2540C)	RAD (9315/9320)	App II (gypsum only)	Residual Chlorine (Y/N)	7268 3124
1	YAT-YGWA-39	WG	G			--	--		6	2		4							X	X	X	X			
2	YAT-YGWA-40	WG	G			--	--		6	2		4							X	X	X	X			
3	YAT-YGWA-1I	WG	G	8/15/23	1345	--	--		6	2		4							X	X	X	X			001
4	YAT-YGWA-1D	WG	G	8/9/23	1120	--	--		6	2		4							X	X	X	X			002
5	YAT-YGWA-2I	WG	G	8/15/23	1545	--	--		6	2		4							X	X	X	X			003
6	YAT-YGWA-3I	WG	G			--	--		6	2		4							X	X	X	X			
7	YAT-YGWA-3D	WG	G	8/15/23	1710	--	--		6	2		4							X	X	X	X			004
8						--	--																		
9						--	--																		
10						--	--																		
11						--	--																		
12						--	--																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/15/23	1805	/Arcadis	8/15/23	1805	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	/Arcadis	8/14/23	0907	Ryan William /Pace	8/14/23	0907	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan William /Pace	8/14/23	1115		8/14/23	1115	

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER:	(Arcadis) -	David Trout			
SIGNATURE of SAMPLER:	(Arcadis)		DATE Signed:	8/15/23	

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

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Page : 1 Of 1

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Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S2	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	~~Nicole Oleen~~ Barnes
Requested Due Date:	Standard	Project Number:		Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

Requested Analysis Filtered (Y/N): —

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1	YAT-YGWA-47	WG	G			--	--		6	2		4							X	X	X	X			
2	YAT-GWA-2	WG	G			--	--		6	2		4							X	X	X	X	X		
3	YAT-YGWA-4I	WG	G	8/15/23	1225	--	--		6	2		4							X	X	X	X			005
4	YAT-YGWA-5I	WG	G	8/15/23	1020	--	--		6	2		4							X	X	X	X			006
5	YAT-YGWA-5D	WG	G	8/15/23	1113	--	--		6	2		4							X	X	X	X			007
6	YAT-YGWA-17S	WG	G			--	--		6	2		4							X	X	X	X			
7	YAT-YGWA-18S	WG	G	8/15/23	1455	--	--		6	2		4							X	X	X	X			008
8	YAT-YGWA-18I	WG	G	8/15/23	1540	--	--		6	2		4							X	X	X	X			009
9	YAT-YGWA-20S	WG	G			--	--		6	2		4							X	X	X	X			
10	YAT-YGWA-21I	WG	G			--	--		6	2		4							X	X	X	X			
11	YAT-YGWA-30I	WG	G			--	--		6	2		4							X	X	X	X			
12	YAT-YGWA-14S	WG	G	8/15/23	1730	--	--		6	2		4							X	X	X	X			010

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/16/23	0755		8/16/23	0755	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	Arcadis	8/16/23	0901	Ryan Williams / Pace	8/16/23	0907	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan Williams / Pace	8/16/23	1115		8/16/23	1115	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kim Lapsevynski

SIGNATURE of SAMPLER: DATE Signed: 8/16/23

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

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Page : | Of |

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Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S2	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	~~Nicole D'Oleo~~ Brooke Hanna
Requested Due Date:	Standard	Project Number:		Pace Profile #:	10840

Regulatory Agency: | State / Location: Georgia

Requested Analysis Filtered (Y/N)

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1	YAT-YGWA-47	WG	G	8/15/23	0943	--	--		6	2		4							X	X	X	X			011
2	YAT-GWA-2	WG	G			--	--		6	2		4							X	X	X	X	X		
3	YAT-YGWA-4I	WG	G			--	--		6	2		4							X	X	X	X			
4	YAT-YGWA-5I	WG	G			--	--		6	2		4							X	X	X	X			
5	YAT-YGWA-5D	WG	G			--	--		6	2		4							X	X	X	X			
6	YAT-YGWA-17S	WG	G			--	--		6	2		4							X	X	X	X			
7	YAT-YGWA-18S	WG	G			--	--		6	2		4							X	X	X	X			
8	YAT-YGWA-18I	WG	G			--	--		6	2		4							X	X	X	X			
9	YAT-YGWA-20S	WG	G			--	--		6	2		4							X	X	X	X			
10	YAT-YGWA-21I	WG	G			--	--		6	2		4							X	X	X	X			
11	YAT-YGWA-30I	WG	G			--	--		6	2		4							X	X	X	X			
12	YAT-YGWA-14S	WG	G			--	--		6	2		4							X	X	X	X			

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Mark Chest / Arcadis	8/16/23	0907	Ryan Williams / Pace	8/16/23	0907	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	Ryan Williams / Pace	8/16/23	1115		8/16/23	1115	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg).							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chest

SIGNATURE of SAMPLER: [signature]

DATE Signed: 8/16/23

SAMPLE CONDITIONS: TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

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Page : 1 Of 1

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		Task No:	YAT-CCR-ASSMT-2023S2	Address:	
Email To:	lgucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:	Standard	Project Number:		Pace Profile #:	10840

Regulatory Agency: Georgia

Requested Analysis Filtered (Y/N)

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1	YAT-YGWA-47	WG	G			--	--		6	2		4							X	X	X	X		
2	YAT-GWA-2	WG	G	8/15/23	1020	--	--		6	2		4							X	X	X	X	X	
3	YAT-YGWA-4I	WG	G			--	--		6	2		4							X	X	X	X		
4	YAT-YGWA-5I	WG	G			--	--		6	2		4							X	X	X	X		
5	YAT-YGWA-5D	WG	G			--	--		6	2		4							X	X	X	X		
6	YAT-YGWA-17S	WG	G			--	--		6	2		4							X	X	X	X		
7	YAT-YGWA-18S	WG	G			--	--		6	2		4							X	X	X	X		
8	YAT-YGWA-18I	WG	G			--	--		6	2		4							X	X	X	X		
9	YAT-YGWA-20S	WG	G			--	--		6	2		4							X	X	X	X		
10	YAT-YGWA-21I	WG	G			--	--		8	2		4							X	X	X	X		
11	YAT-YGWA-30I	WG	G			--	--		6	2		4							X	X	X	X		
12	YAT-YGWA-14S	WG	G			--	--		6	2		4							X	X	X	X		

92683124

-012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/16/23	0900		8/16/23	0800	
App III Metals: Boron 6020B, Ca 6010D; App III 6020B: Zn, Ag, Ni, V		8/16/23	0907		8/16/23	0907	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg).		8/16/23	1115		8/16/23	1115	

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Luke Swanson					
SIGNATURE of SAMPLER:		DATE Signed: 8/15/23				

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Page : 1 Of 2

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Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S2	Address:	
Email To:	jaucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	~~Nicole DiCiero~~ Brian Jang
Requested Due Date:	Standard	Project Number:		Pace Profile #:	10840

Regulatory Agency: Georgia

Requested Analysis Filtered (Y/N)

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1	YAT-YGWA-47	WG	G			--	--		6	2		4							X	X	X	X			
2	YAT-GWA-2	WG	G			--	--		6	2		4							X	X	X	X	X		
3	YAT-YGWA-4I	WG	G			--	--		6	2		4							X	X	X	X			
4	YAT-YGWA-5I	WG	G			--	--		6	2		4							X	X	X	X			
5	YAT-YGWA-5D	WG	G			--	--		6	2		4							X	X	X	X			
6	YAT-YGWA-17S	WG	G	8/15	1450	--	--		6	2		4							X	X	X	X			013
7	YAT-YGWA-18S	WG	G			--	--		6	2		4							X	X	X	X			
8	YAT-YGWA-18I	WG	G			--	--		6	2		4							X	X	X	X			
9	YAT-YGWA-20S	WG	G	8/15	1225	--	--		6	2		4							X	X	X	X			014
10	YAT-YGWA-21I	WG	G	8/15	1035	--	--		6	2		4							X	X	X	X			015
11	YAT-YGWA-30I	WG	G			--	--		6	2		4							X	X	X	X			
12	YAT-YGWA-14S	WG	G			--	--		6	2		4							X	X	X	X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/15/23	1805	/Arcadis	8/15/23	1805	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	Arcadis	8/16/23	0907	Ryan Williams/Pace	8/16/23	0907	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg).	Ryan Williams/Pace	8/16/23	1115		8/16/23	1115	

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Jessica Ware					
SIGNATURE of SAMPLER:		DATE Signed: 8/15/23				

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 2 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-202392	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	~~Nicole D'Olen~~ Barnes
Requested Due Date:	Standard	Project Number:		Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals-See NOTE	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	92683124
1	YAT-YGWA-39	WG	G	8/15	1611	–	–		6	2		4							X	X	X	X			016
2	YAT-YGWA-40	WG	G	8/15	1720	–	–		6	2		4							X	X	X	X			017
3	YAT-YGWA-1I	WG	G			–	–		6	2		4							X	X	X	X			
4	YAT-YGWA-1D	WG	G			–	–		6	2		4							X	X	X	X			
5	YAT-YGWA-2I	WG	G			–	–		6	2		4							X	X	X	X			
6	YAT-YGWA-3I	WG	G			–	–		6	2		4							X	X	X	X			
7	YAT-YGWA-3D	WG	G			–	–		6	2		4							X	X	X	X			
8						–	–																		
9						–	–																		
10						–	–																		
11						–	–																		
12						–	–																		

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/15/23	1805	/Arcadis	8/15/23	1805	
App III Metals: Boron 6020B, Ca 6010D; App IV 6020B: Zn, Ag, Ni, V	/Arcadis	8/16/23	0907	Ryan Williams / Pace	8/16/23	0907	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se); 7040A: Mercury (Hg)	Ryan Williams / Pace	8/16/23	1115		8/16/23	1115	

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	(Arcadis) Jessica Ware					
SIGNATURE of SAMPLER:	(Arcadis)	DATE Signed: 8/15/23				

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-202392	Address:	
Email To:	tauppken@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	~~Nicole D'Otto~~ Brent Vary
Requested Due Date:	Standard	Project Number:		Pace Profile #:	~~10840~~

Pace Analytical Services — Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App III/IV Metals +Boron+Li	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	92683124
1	YAT-YGWA-4I	WG	G			–	–		6	2		4						X	X	X	X			
2	YAT-GWA-2	WG	G			–	–		6	2		4						X	X	X	X	X		
3	YAT-YGWA-4I	WG	G			–	–		6	2		4						X	X	X	X			
4	YAT-YGWA-5I	WG	G			–	–		6	2		4						X	X	X	X			
5	YAT-YGWA-5D	WG	G			–	–		6	2		4						X	X	X	X			
6	YAT-YGWA-17S	WG	G			–	–		6	2		4						X	X	X	X			
7	YAT-YGWA-18S	WG	G			–	–		6	2		4						X	X	X	X			
8	YAT-YGWA-18I	WG	G			–	–		6	2		4						X	X	X	X			
9	YAT-YGWA-20S	WG	G			–	–		6	2		4						X	X	X	X			
10	YAT-YGWA-21I	WG	G			–	–		6	2		4						X	X	X	X			
11	YAT-YGWA-30I	WG	G	8/14/23	1220	–	–		6	2		4						X	X	X	X			018
12	YAT-YGWA-14S	WG	G			–	–		6	2		4						X	X	X	X			

Anions Suite 300.0 (Cl, F, Sulfate)	Kevin Pierce /Arcadis	8/17/23	0833	Michael Tarver /Pace	8/17/23	0825	
App III Metals: Boron 6020B, Ca 6010D; App IV 6020B: Zn, Ag, Ni, V	Brent Vary /Arcadis	8/17/23		Ryan William /Pace	8/17/23	0955	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan William /Pace	8/17/23	1254		8-17	1254	

PRINT Name of SAMPLER: David Evans

SIGNATURE of SAMPLER: David Evans DATE Signed: 8/16/23

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-202382	Address:	
Email To:	jauonker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole DiGiae
Requested Due Date:	Standard	Project Number:		Pace Profile #:	10840

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App III/IV Metals +Ca+Mg+K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)
		MATRIX: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS																					
	YAT-YGWA-39	WG	G			--	--		6	2		4						X	X	X	X		
	YAT-YGWA-40	WG	G			--	--		6	2		4						X	X	X	X		
	YAT-YGWA-1I	WG	G			--	--		6	2		4						X	X	X	X		
	YAT-YGWA-1D	WG	G			--	--		6	2		4						X	X	X	X		
	YAT-YGWA-2I	WG	G			--	--		6	2		4						X	X	X	X		
	YAT-YGWA-3I	WG	G	8/16/23	1050	--	--		6	2		4						X	X	X	X		009
	YAT-YGWA-3D	WG	G			--	--		6	2		4						X	X	X	X		
						--	--																
						--	--																
						--	--																
						--	--																
						--	--																

92683124

Anions Suite 300.0 (Cl, F, Sulfate)		Arcadis	8/17/23	0833		Arcadis	8/17/23	0832			
App III Metals: Boron 6020B, Ca 6010D; App III 6020B: Zn, Ag, Ni, V			8/17/23				8/17/23	0955			
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)			8/17/23	1254			8/17	1254			

PRINT Name of SAMPLER:	(Arcadis) David Prouty		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SIGNATURE of SAMPLER:	(Arcadis)	DATE Signed: 8/16/23				

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92683124	No qualifiers assigned						
92683132	YAT-YGWA-21I	SW846 9320	Radium-228	1.07 +/- 0.492	pCi/L	J	Blank contamination

Abbreviations:

pCi/L = picoCuries per liter

Qualifiers:

J = estimated result

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

August 31, 2023

Lauren Hartley
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Plant Yates Pooled Upgradient
Pace Project No.: 92683124

Dear Lauren Hartley:

Enclosed are the analytical results for sample(s) received by the laboratory between August 16, 2023 and August 17, 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)875-9092
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: Plant Yates Pooled Upgradient
Pace Project No.: 92683124

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

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92683124

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92683124001	**YAT-YGWA-1I**	Water	08/15/23 13:45	08/16/23 09:07
92683124002	**YAT-YGWA-1D**	Water	08/15/23 11:20	08/16/23 09:07
92683124003	**YAT-YGWA-2I**	Water	08/15/23 15:45	08/16/23 09:07
92683124004	**YAT-YGWA-3D**	Water	08/15/23 17:10	08/16/23 09:07
92683124005	**YAT-YGWA-4I**	Water	08/15/23 12:25	08/16/23 09:07
92683124006	**YAT-YGWA-5I**	Water	08/15/23 10:20	08/16/23 09:07
92683124007	**YAT-YGWA-5D**	Water	08/15/23 11:13	08/16/23 09:07
92683124008	**YAT-YGWA-18S**	Water	08/15/23 11:35	08/16/23 09:07
92683124009	**YAT-YGWA-18I**	Water	08/15/23 15:40	08/16/23 09:07
92683124010	**YAT-YGWA-14S**	Water	08/15/23 17:30	08/16/23 09:07
92683124011	**YAT-YGWA-47**	Water	08/15/23 09:43	08/16/23 09:07
92683124012	**YAT-GWA-2**	Water	08/15/23 10:20	08/16/23 09:07
92683124013	**YAT-YGWA-17S**	Water	08/15/23 14:50	08/16/23 09:07
92683124014	**YAT-YGWA-20S**	Water	08/15/23 12:25	08/16/23 09:07
92683124015	**YAT-YGWA-21I**	Water	08/15/23 10:35	08/16/23 09:07
92683124016	**YAT-YGWA-39**	Water	08/15/23 16:11	08/16/23 09:07
92683124017	**YAT-YGWA-40**	Water	08/15/23 17:20	08/16/23 09:07
92683124018	**YAT-YGWA-30I**	Water	08/16/23 12:20	08/17/23 09:55
92683124019	**YAT-YGWA-3I**	Water	08/16/23 10:50	08/17/23 09:55

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SAMPLE ANALYTE COUNT

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92683124

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92683124001	**YAT-YGWA-1I**	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92683124002	**YAT-YGWA-1D**	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92683124003	**YAT-YGWA-2I**	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92683124004	**YAT-YGWA-3D**	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92683124005	**YAT-YGWA-4I**	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92683124006	**YAT-YGWA-5I**	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92683124007	**YAT-YGWA-5D**	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92683124008	**YAT-YGWA-18S**	EPA 6010D	MS	1
		EPA 6020B	CW1	13

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Huntersville, NC 28078
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SAMPLE ANALYTE COUNT

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92683124

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
92683124009	**YAT-YGWA-18I**	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92683124010	**YAT-YGWA-14S**	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92683124011	**YAT-YGWA-47**	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92683124012	**YAT-GWA-2**	EPA 6010D	MS	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92683124013	**YAT-YGWA-17S**	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92683124014	**YAT-YGWA-20S**	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92683124015	**YAT-YGWA-21I**	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92683124

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 300.0 Rev 2.1 1993	CDC	3
92683124016	**YAT-YGWA-39**	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92683124017	**YAT-YGWA-40**	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92683124018	**YAT-YGWA-30I**	EPA 6010D	MS	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92683124019	**YAT-YGWA-3I**	EPA 6010D	MS	1
		EPA 6020B	CW1	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

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92683124

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92683124001	**YAT-YGWA-1I**					
EPA 6010D	Calcium	1.8	mg/L	1.0	08/24/23 19:18	
EPA 6020B	Barium	0.0078	mg/L	0.0050	08/25/23 17:09	
EPA 6020B	Boron	0.0094J	mg/L	0.040	08/25/23 17:09	
EPA 6020B	Cobalt	0.00072J	mg/L	0.0050	08/25/23 17:09	
EPA 6020B	Lithium	0.0020J	mg/L	0.030	08/25/23 17:09	
EPA 6020B	Molybdenum	0.0047J	mg/L	0.010	08/25/23 17:09	
EPA 7470A	Mercury	0.00015J	mg/L	0.00020	08/22/23 17:17	
SM 2540C-2015	Total Dissolved Solids	65.0	mg/L	25.0	08/21/23 13:10	
EPA 300.0 Rev 2.1 1993	Chloride	1.4	mg/L	1.0	08/18/23 21:15	
EPA 300.0 Rev 2.1 1993	Sulfate	4.6	mg/L	1.0	08/18/23 21:15	
92683124002	**YAT-YGWA-1D**					
EPA 6010D	Calcium	13.5	mg/L	1.0	08/24/23 19:23	
EPA 6020B	Barium	0.0059	mg/L	0.0050	08/25/23 17:12	
EPA 6020B	Lithium	0.0079J	mg/L	0.030	08/25/23 17:12	
EPA 6020B	Molybdenum	0.0098J	mg/L	0.010	08/25/23 17:12	
EPA 7470A	Mercury	0.00015J	mg/L	0.00020	08/22/23 17:20	
SM 2540C-2015	Total Dissolved Solids	121	mg/L	25.0	08/21/23 13:10	
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	08/18/23 21:29	
EPA 300.0 Rev 2.1 1993	Fluoride	0.057J	mg/L	0.10	08/18/23 21:29	
EPA 300.0 Rev 2.1 1993	Sulfate	9.6	mg/L	1.0	08/18/23 21:29	
92683124003	**YAT-YGWA-2I**					
EPA 6010D	Calcium	23.2	mg/L	1.0	08/24/23 19:29	
EPA 6020B	Barium	0.0031J	mg/L	0.0050	08/25/23 17:16	
EPA 6020B	Molybdenum	0.0071J	mg/L	0.010	08/25/23 17:16	
EPA 7470A	Mercury	0.00015J	mg/L	0.00020	08/22/23 17:22	
SM 2540C-2015	Total Dissolved Solids	157	mg/L	25.0	08/21/23 13:10	
EPA 300.0 Rev 2.1 1993	Chloride	0.93J	mg/L	1.0	08/18/23 21:44	
EPA 300.0 Rev 2.1 1993	Fluoride	0.081J	mg/L	0.10	08/18/23 21:44	
EPA 300.0 Rev 2.1 1993	Sulfate	17.2	mg/L	1.0	08/18/23 21:44	
92683124004	**YAT-YGWA-3D**					
EPA 6010D	Calcium	27.4	mg/L	1.0	08/24/23 19:34	
EPA 6020B	Barium	0.0046J	mg/L	0.0050	08/25/23 17:31	
EPA 6020B	Lithium	0.023J	mg/L	0.15	08/28/23 13:28	D3
EPA 6020B	Molybdenum	0.012	mg/L	0.010	08/25/23 17:31	
EPA 7470A	Mercury	0.00014J	mg/L	0.00020	08/22/23 17:25	
SM 2540C-2015	Total Dissolved Solids	231	mg/L	25.0	08/21/23 13:10	
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	08/18/23 22:27	
EPA 300.0 Rev 2.1 1993	Fluoride	0.42	mg/L	0.10	08/18/23 22:27	
EPA 300.0 Rev 2.1 1993	Sulfate	6.8	mg/L	1.0	08/18/23 22:27	
92683124005	**YAT-YGWA-4I**					
EPA 6010D	Calcium	7.8	mg/L	1.0	08/28/23 21:13	M1
EPA 6020B	Barium	0.011	mg/L	0.0050	08/25/23 17:35	
EPA 6020B	Lithium	0.0083J	mg/L	0.030	08/25/23 17:35	
EPA 7470A	Mercury	0.00013J	mg/L	0.00020	08/22/23 17:28	
SM 2540C-2015	Total Dissolved Solids	99.0	mg/L	25.0	08/21/23 13:11	

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SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92683124

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92683124005	**YAT-YGWA-4I**					
EPA 300.0 Rev 2.1 1993	Chloride	4.4	mg/L	1.0	08/18/23 22:41	
EPA 300.0 Rev 2.1 1993	Sulfate	7.5	mg/L	1.0	08/18/23 22:41	
92683124006	**YAT-YGWA-5I**					
EPA 6010D	Calcium	2.6	mg/L	1.0	08/28/23 21:33	
EPA 6020B	Barium	0.018	mg/L	0.0050	08/25/23 17:46	
EPA 7470A	Mercury	0.00014J	mg/L	0.00020	08/22/23 17:30	
SM 2540C-2015	Total Dissolved Solids	76.0	mg/L	25.0	08/21/23 13:11	
EPA 300.0 Rev 2.1 1993	Chloride	4.1	mg/L	1.0	08/18/23 22:56	
EPA 300.0 Rev 2.1 1993	Sulfate	2.2	mg/L	1.0	08/18/23 22:56	
92683124007	**YAT-YGWA-5D**					
EPA 6010D	Calcium	25.0	mg/L	1.0	08/28/23 21:39	
EPA 6020B	Barium	0.0074	mg/L	0.0050	08/25/23 17:50	
EPA 6020B	Lithium	0.0059J	mg/L	0.15	08/28/23 13:40	D3
EPA 6020B	Molybdenum	0.00090J	mg/L	0.010	08/25/23 17:50	
EPA 7470A	Mercury	0.00015J	mg/L	0.00020	08/22/23 17:33	
SM 2540C-2015	Total Dissolved Solids	219	mg/L	25.0	08/21/23 13:11	
EPA 300.0 Rev 2.1 1993	Chloride	3.1	mg/L	1.0	08/18/23 23:10	
EPA 300.0 Rev 2.1 1993	Sulfate	4.8	mg/L	1.0	08/18/23 23:10	
92683124008	**YAT-YGWA-18S**					
EPA 6010D	Calcium	0.80J	mg/L	1.0	08/28/23 21:44	
EPA 6020B	Barium	0.012	mg/L	0.0050	08/25/23 17:53	
EPA 6020B	Beryllium	0.000057J	mg/L	0.00050	08/25/23 17:53	
EPA 6020B	Chromium	0.0013J	mg/L	0.0050	08/25/23 17:53	
EPA 6020B	Lithium	0.00077J	mg/L	0.030	08/25/23 17:53	
EPA 7470A	Mercury	0.00015J	mg/L	0.00020	08/22/23 17:44	
SM 2540C-2015	Total Dissolved Solids	81.0	mg/L	25.0	08/21/23 13:11	
EPA 300.0 Rev 2.1 1993	Chloride	6.7	mg/L	1.0	08/18/23 23:25	
EPA 300.0 Rev 2.1 1993	Sulfate	0.88J	mg/L	1.0	08/18/23 23:25	
92683124009	**YAT-YGWA-18I**					
EPA 6010D	Calcium	5.1	mg/L	1.0	08/28/23 21:49	
EPA 6020B	Barium	0.020	mg/L	0.0050	08/25/23 17:57	
EPA 7470A	Mercury	0.00014J	mg/L	0.00020	08/22/23 17:46	
SM 2540C-2015	Total Dissolved Solids	96.0	mg/L	25.0	08/21/23 13:12	
EPA 300.0 Rev 2.1 1993	Chloride	7.3	mg/L	1.0	08/18/23 23:39	
EPA 300.0 Rev 2.1 1993	Sulfate	0.51J	mg/L	1.0	08/18/23 23:39	
92683124010	**YAT-YGWA-14S**					
EPA 6010D	Calcium	1.3	mg/L	1.0	08/28/23 22:04	
EPA 6020B	Barium	0.0079	mg/L	0.0050	08/25/23 18:01	
EPA 6020B	Beryllium	0.00018J	mg/L	0.00050	08/25/23 18:01	
EPA 6020B	Boron	0.017J	mg/L	0.040	08/25/23 18:01	
EPA 6020B	Selenium	0.0014J	mg/L	0.0050	08/25/23 18:01	
EPA 7470A	Mercury	0.00016J	mg/L	0.00020	08/22/23 17:49	
SM 2540C-2015	Total Dissolved Solids	69.0	mg/L	25.0	08/21/23 13:14	
EPA 300.0 Rev 2.1 1993	Chloride	4.1	mg/L	1.0	08/19/23 00:22	

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SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92683124

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92683124010	**YAT-YGWA-14S**					
EPA 300.0 Rev 2.1 1993	Sulfate	6.0	mg/L	1.0	08/19/23 00:22	
92683124011	**YAT-YGWA-47**					
EPA 6010D	Calcium	9.6	mg/L	1.0	08/28/23 22:10	
EPA 6020B	Barium	0.032	mg/L	0.0050	08/25/23 18:04	
EPA 6020B	Cobalt	0.00072J	mg/L	0.0050	08/25/23 18:04	
EPA 6020B	Lithium	0.0040J	mg/L	0.15	08/28/23 13:58	D3
EPA 7470A	Mercury	0.00014J	mg/L	0.00020	08/22/23 17:52	
SM 2540C-2015	Total Dissolved Solids	186	mg/L	25.0	08/21/23 13:15	
EPA 300.0 Rev 2.1 1993	Chloride	3.5	mg/L	1.0	08/19/23 01:35	
EPA 300.0 Rev 2.1 1993	Sulfate	47.7	mg/L	1.0	08/19/23 01:35	
92683124012	**YAT-GWA-2**					
EPA 6010D	Calcium	20.3	mg/L	1.0	08/24/23 19:39	
EPA 6020B	Barium	0.030	mg/L	0.0050	08/25/23 18:08	
EPA 6020B	Cobalt	0.031	mg/L	0.0050	08/25/23 18:08	
EPA 6020B	Copper	0.0011J	mg/L	0.0050	08/25/23 18:08	B
EPA 6020B	Nickel	0.0098	mg/L	0.0050	08/25/23 18:08	
EPA 6020B	Zinc	0.0080J	mg/L	0.010	08/25/23 18:08	
SM 2540C-2015	Total Dissolved Solids	230	mg/L	25.0	08/21/23 13:15	
EPA 300.0 Rev 2.1 1993	Chloride	5.6	mg/L	1.0	08/19/23 01:49	
EPA 300.0 Rev 2.1 1993	Fluoride	0.065J	mg/L	0.10	08/19/23 01:49	
EPA 300.0 Rev 2.1 1993	Sulfate	74.2	mg/L	1.0	08/19/23 01:49	
92683124013	**YAT-YGWA-17S**					
EPA 6010D	Calcium	2.9	mg/L	1.0	08/28/23 22:15	
EPA 6020B	Barium	0.016	mg/L	0.0050	08/25/23 18:12	
SM 2540C-2015	Total Dissolved Solids	74.0	mg/L	25.0	08/21/23 13:16	
EPA 300.0 Rev 2.1 1993	Chloride	11.6	mg/L	1.0	08/19/23 02:04	
EPA 300.0 Rev 2.1 1993	Sulfate	4.6	mg/L	1.0	08/19/23 02:04	
92683124014	**YAT-YGWA-20S**					
EPA 6010D	Calcium	2.2	mg/L	1.0	08/28/23 22:20	
EPA 6020B	Barium	0.012	mg/L	0.0050	08/25/23 18:16	
SM 2540C-2015	Total Dissolved Solids	62.0	mg/L	25.0	08/21/23 13:16	
EPA 300.0 Rev 2.1 1993	Chloride	2.8	mg/L	1.0	08/19/23 02:18	
92683124015	**YAT-YGWA-21I**					
EPA 6010D	Calcium	6.1	mg/L	1.0	08/28/23 22:25	
EPA 6020B	Barium	0.0075	mg/L	0.0050	08/25/23 18:19	
EPA 6020B	Boron	0.046J	mg/L	0.20	08/29/23 17:06	D3
EPA 6020B	Cobalt	0.011	mg/L	0.0050	08/25/23 18:19	
EPA 6020B	Lithium	0.0062J	mg/L	0.15	08/29/23 17:06	D3
SM 2540C-2015	Total Dissolved Solids	126	mg/L	25.0	08/21/23 13:16	
EPA 300.0 Rev 2.1 1993	Chloride	2.3	mg/L	1.0	08/19/23 02:32	
EPA 300.0 Rev 2.1 1993	Fluoride	0.061J	mg/L	0.10	08/19/23 02:32	
EPA 300.0 Rev 2.1 1993	Sulfate	4.1	mg/L	1.0	08/19/23 02:32	
92683124016	**YAT-YGWA-39**					
EPA 6010D	Calcium	17.2	mg/L	1.0	08/28/23 22:30	

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SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92683124

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92683124016	**YAT-YGWA-39**					
EPA 6020B	Barium	0.031	mg/L	0.0050	08/25/23 18:31	
EPA 6020B	Boron	0.15J	mg/L	0.20	08/28/23 14:36	D3
EPA 6020B	Cobalt	0.00072J	mg/L	0.0050	08/25/23 18:31	
EPA 6020B	Lithium	0.0064J	mg/L	0.15	08/28/23 14:36	D3
EPA 6020B	Molybdenum	0.0061J	mg/L	0.010	08/25/23 18:31	
SM 2540C-2015	Total Dissolved Solids	225	mg/L	25.0	08/21/23 13:16	
EPA 300.0 Rev 2.1 1993	Chloride	4.5	mg/L	1.0	08/19/23 02:47	
EPA 300.0 Rev 2.1 1993	Sulfate	7.6	mg/L	1.0	08/19/23 02:47	
92683124017	**YAT-YGWA-40**					
EPA 6010D	Calcium	5.3	mg/L	1.0	08/28/23 22:35	
EPA 6020B	Barium	0.034	mg/L	0.0050	08/25/23 18:34	
EPA 6020B	Boron	0.052J	mg/L	0.20	08/28/23 14:42	D3
EPA 7470A	Mercury	0.00037	mg/L	0.00020	08/22/23 18:07	
SM 2540C-2015	Total Dissolved Solids	83.0	mg/L	25.0	08/21/23 13:17	
EPA 300.0 Rev 2.1 1993	Chloride	5.6	mg/L	1.0	08/19/23 03:01	
EPA 300.0 Rev 2.1 1993	Sulfate	16.4	mg/L	1.0	08/19/23 03:01	
92683124018	**YAT-YGWA-30I**					
EPA 6010D	Calcium	1.4	mg/L	1.0	08/29/23 22:45	
EPA 6020B	Barium	0.0066	mg/L	0.0050	08/25/23 18:42	
EPA 6020B	Cobalt	0.0028J	mg/L	0.0050	08/25/23 18:42	
SM 2540C-2015	Total Dissolved Solids	48.0	mg/L	25.0	08/22/23 16:00	
EPA 300.0 Rev 2.1 1993	Chloride	1.5	mg/L	1.0	08/19/23 18:58	
EPA 300.0 Rev 2.1 1993	Sulfate	0.90J	mg/L	1.0	08/19/23 18:58	
92683124019	**YAT-YGWA-3I**					
EPA 6010D	Calcium	24.9	mg/L	1.0	08/29/23 22:55	
EPA 6020B	Barium	0.0037J	mg/L	0.0050	08/25/23 18:45	
EPA 6020B	Lithium	0.025J	mg/L	0.15	08/28/23 15:00	D3
EPA 6020B	Molybdenum	0.012	mg/L	0.010	08/25/23 18:45	
SM 2540C-2015	Total Dissolved Solids	148	mg/L	25.0	08/22/23 16:00	
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	08/19/23 19:43	
EPA 300.0 Rev 2.1 1993	Fluoride	0.11	mg/L	0.10	08/19/23 19:43	M1
EPA 300.0 Rev 2.1 1993	Sulfate	20.3	mg/L	1.0	08/19/23 19:43	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92683124

Sample: YAT-YGWA-1I **Lab ID: 92683124001** Collected: 08/15/23 13:45 Received: 08/16/23 09:07 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	**1.8**	mg/L	1.0	0.12	1	08/24/23 09:50	08/24/23 19:18	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	0.0012	1	08/21/23 18:00	08/25/23 17:09	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/21/23 18:00	08/25/23 17:09	7440-38-2	
Barium	**0.0078**	mg/L	0.0050	0.00067	1	08/21/23 18:00	08/25/23 17:09	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/21/23 18:00	08/25/23 17:09	7440-41-7	
Boron	**0.0094J**	mg/L	0.040	0.0086	1	08/21/23 18:00	08/25/23 17:09	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/21/23 18:00	08/25/23 17:09	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/21/23 18:00	08/25/23 17:09	7440-47-3	
Cobalt	**0.00072J**	mg/L	0.0050	0.00039	1	08/21/23 18:00	08/25/23 17:09	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/21/23 18:00	08/25/23 17:09	7439-92-1	
Lithium	**0.0020J**	mg/L	0.030	0.00073	1	08/21/23 18:00	08/25/23 17:09	7439-93-2	
Molybdenum	**0.0047J**	mg/L	0.010	0.00074	1	08/21/23 18:00	08/25/23 17:09	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/21/23 18:00	08/25/23 17:09	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/21/23 18:00	08/25/23 17:09	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00015J**	mg/L	0.00020	0.00013	1	08/22/23 11:20	08/22/23 17:17	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**65.0**	mg/L	25.0	25.0	1		08/21/23 13:10		
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		08/18/23 21:15	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/18/23 21:15	16984-48-8	
Sulfate	**4.6**	mg/L	1.0	0.50	1		08/18/23 21:15	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92683124

Sample: YAT-YGWA-1D **Lab ID: 92683124002** Collected: 08/15/23 11:20 Received: 08/16/23 09:07 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	**13.5**	mg/L	1.0	0.12	1	08/24/23 09:50	08/24/23 19:23	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	0.0012	1	08/21/23 18:00	08/25/23 17:12	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/21/23 18:00	08/25/23 17:12	7440-38-2	
Barium	**0.0059**	mg/L	0.0050	0.00067	1	08/21/23 18:00	08/25/23 17:12	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/21/23 18:00	08/25/23 17:12	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	08/21/23 18:00	08/25/23 17:12	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/21/23 18:00	08/25/23 17:12	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/21/23 18:00	08/25/23 17:12	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/21/23 18:00	08/25/23 17:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/21/23 18:00	08/25/23 17:12	7439-92-1	
Lithium	**0.0079J**	mg/L	0.030	0.00073	1	08/21/23 18:00	08/25/23 17:12	7439-93-2	
Molybdenum	**0.0098J**	mg/L	0.010	0.00074	1	08/21/23 18:00	08/25/23 17:12	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/21/23 18:00	08/25/23 17:12	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/21/23 18:00	08/25/23 17:12	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00015J**	mg/L	0.00020	0.00013	1	08/22/23 11:20	08/22/23 17:20	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**121**	mg/L	25.0	25.0	1		08/21/23 13:10		
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		08/18/23 21:29	16887-00-6	
Fluoride	**0.057J**	mg/L	0.10	0.050	1		08/18/23 21:29	16984-48-8	
Sulfate	**9.6**	mg/L	1.0	0.50	1		08/18/23 21:29	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92683124

Sample: YAT-YGWA-2I **Lab ID: 92683124003** Collected: 08/15/23 15:45 Received: 08/16/23 09:07 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	**23.2**	mg/L	1.0	0.12	1	08/24/23 09:50	08/24/23 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	0.0012	1	08/21/23 18:00	08/25/23 17:16	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/21/23 18:00	08/25/23 17:16	7440-38-2	
Barium	**0.0031J**	mg/L	0.0050	0.00067	1	08/21/23 18:00	08/25/23 17:16	7440-39-3	
Beryllium	ND	mg/L	0.0025	0.00027	5	08/21/23 18:00	08/28/23 13:11	7440-41-7	D3
Boron	ND	mg/L	0.20	0.043	5	08/21/23 18:00	08/28/23 13:11	7440-42-8	D3
Cadmium	ND	mg/L	0.00050	0.00011	1	08/21/23 18:00	08/25/23 17:16	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/21/23 18:00	08/25/23 17:16	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/21/23 18:00	08/25/23 17:16	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/21/23 18:00	08/25/23 17:16	7439-92-1	
Lithium	ND	mg/L	0.15	0.0036	5	08/21/23 18:00	08/28/23 13:11	7439-93-2	D3
Molybdenum	**0.0071J**	mg/L	0.010	0.00074	1	08/21/23 18:00	08/25/23 17:16	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/21/23 18:00	08/25/23 17:16	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/21/23 18:00	08/25/23 17:16	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00015J**	mg/L	0.00020	0.00013	1	08/22/23 11:20	08/22/23 17:22	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**157**	mg/L	25.0	25.0	1		08/21/23 13:10		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**0.93J**	mg/L	1.0	0.60	1		08/18/23 21:44	16887-00-6	
Fluoride	**0.081J**	mg/L	0.10	0.050	1		08/18/23 21:44	16984-48-8	
Sulfate	**17.2**	mg/L	1.0	0.50	1		08/18/23 21:44	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92683124

Sample: YAT-YGWA-3D **Lab ID: 92683124004** Collected: 08/15/23 17:10 Received: 08/16/23 09:07 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	**27.4**	mg/L	1.0	0.12	1	08/24/23 09:50	08/24/23 19:34	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	0.0012	1	08/21/23 18:00	08/25/23 17:31	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/21/23 18:00	08/25/23 17:31	7440-38-2	
Barium	**0.0046J**	mg/L	0.0050	0.00067	1	08/21/23 18:00	08/25/23 17:31	7440-39-3	
Beryllium	ND	mg/L	0.0025	0.00027	5	08/21/23 18:00	08/28/23 13:28	7440-41-7	D3
Boron	ND	mg/L	0.20	0.043	5	08/21/23 18:00	08/28/23 13:28	7440-42-8	D3
Cadmium	ND	mg/L	0.00050	0.00011	1	08/21/23 18:00	08/25/23 17:31	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/21/23 18:00	08/25/23 17:31	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/21/23 18:00	08/25/23 17:31	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/21/23 18:00	08/25/23 17:31	7439-92-1	
Lithium	**0.023J**	mg/L	0.15	0.0036	5	08/21/23 18:00	08/28/23 13:28	7439-93-2	D3
Molybdenum	**0.012**	mg/L	0.010	0.00074	1	08/21/23 18:00	08/25/23 17:31	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/21/23 18:00	08/25/23 17:31	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/21/23 18:00	08/25/23 17:31	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	08/22/23 11:20	08/22/23 17:25	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**231**	mg/L	25.0	25.0	1		08/21/23 13:10		
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		08/18/23 22:27	16887-00-6	
Fluoride	**0.42**	mg/L	0.10	0.050	1		08/18/23 22:27	16984-48-8	
Sulfate	**6.8**	mg/L	1.0	0.50	1		08/18/23 22:27	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92683124

Sample: YAT-YGWA-4I **Lab ID: 92683124005** Collected: 08/15/23 12:25 Received: 08/16/23 09:07 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	**7.8**	mg/L	1.0	0.12	1	08/26/23 17:26	08/28/23 21:13	7440-70-2	M1
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	08/21/23 18:00	08/25/23 17:35	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/21/23 18:00	08/25/23 17:35	7440-38-2	
Barium	**0.011**	mg/L	0.0050	0.00067	1	08/21/23 18:00	08/25/23 17:35	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/21/23 18:00	08/25/23 17:35	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	08/21/23 18:00	08/25/23 17:35	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/21/23 18:00	08/25/23 17:35	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/21/23 18:00	08/25/23 17:35	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/21/23 18:00	08/25/23 17:35	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/21/23 18:00	08/25/23 17:35	7439-92-1	
Lithium	**0.0083J**	mg/L	0.030	0.00073	1	08/21/23 18:00	08/25/23 17:35	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/21/23 18:00	08/25/23 17:35	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/21/23 18:00	08/25/23 17:35	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/21/23 18:00	08/25/23 17:35	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00013J**	mg/L	0.00020	0.00013	1	08/22/23 11:20	08/22/23 17:28	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**99.0**	mg/L	25.0	25.0	1		08/21/23 13:11		
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		08/18/23 22:41	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/18/23 22:41	16984-48-8	
Sulfate	**7.5**	mg/L	1.0	0.50	1		08/18/23 22:41	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92683124

Sample: YAT-YGWA-5I **Lab ID: 92683124006** Collected: 08/15/23 10:20 Received: 08/16/23 09:07 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	**2.6**	mg/L	1.0	0.12	1	08/26/23 17:26	08/28/23 21:33	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	08/21/23 18:00	08/25/23 17:46	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/21/23 18:00	08/25/23 17:46	7440-38-2	
Barium	**0.018**	mg/L	0.0050	0.00067	1	08/21/23 18:00	08/25/23 17:46	7440-39-3	
Beryllium	ND	mg/L	0.0025	0.00027	5	08/21/23 18:00	08/28/23 13:34	7440-41-7	D3
Boron	ND	mg/L	0.20	0.043	5	08/21/23 18:00	08/28/23 13:34	7440-42-8	D3
Cadmium	ND	mg/L	0.00050	0.00011	1	08/21/23 18:00	08/25/23 17:46	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/21/23 18:00	08/25/23 17:46	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/21/23 18:00	08/25/23 17:46	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/21/23 18:00	08/25/23 17:46	7439-92-1	
Lithium	ND	mg/L	0.15	0.0036	5	08/21/23 18:00	08/28/23 13:34	7439-93-2	D3
Molybdenum	ND	mg/L	0.010	0.00074	1	08/21/23 18:00	08/25/23 17:46	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/21/23 18:00	08/25/23 17:46	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/21/23 18:00	08/25/23 17:46	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	08/22/23 11:20	08/22/23 17:30	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**76.0**	mg/L	25.0	25.0	1		08/21/23 13:11		
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		08/18/23 22:56	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/18/23 22:56	16984-48-8	
Sulfate	**2.2**	mg/L	1.0	0.50	1		08/18/23 22:56	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92683124

Sample: YAT-YGWA-5D **Lab ID: 92683124007** Collected: 08/15/23 11:13 Received: 08/16/23 09:07 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	**25.0**	mg/L	1.0	0.12	1	08/26/23 17:26	08/28/23 21:39	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	0.0012	1	08/21/23 18:00	08/25/23 17:50	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/21/23 18:00	08/25/23 17:50	7440-38-2	
Barium	**0.0074**	mg/L	0.0050	0.00067	1	08/21/23 18:00	08/25/23 17:50	7440-39-3	
Beryllium	ND	mg/L	0.0025	0.00027	5	08/21/23 18:00	08/28/23 13:40	7440-41-7	D3
Boron	ND	mg/L	0.20	0.043	5	08/21/23 18:00	08/28/23 13:40	7440-42-8	D3
Cadmium	ND	mg/L	0.00050	0.00011	1	08/21/23 18:00	08/25/23 17:50	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/21/23 18:00	08/25/23 17:50	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/21/23 18:00	08/25/23 17:50	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/21/23 18:00	08/25/23 17:50	7439-92-1	
Lithium	**0.0059J**	mg/L	0.15	0.0036	5	08/21/23 18:00	08/28/23 13:40	7439-93-2	D3
Molybdenum	**0.00090J**	mg/L	0.010	0.00074	1	08/21/23 18:00	08/25/23 17:50	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/21/23 18:00	08/25/23 17:50	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/21/23 18:00	08/25/23 17:50	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00015J**	mg/L	0.00020	0.00013	1	08/22/23 11:20	08/22/23 17:33	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**219**	mg/L	25.0	25.0	1		08/21/23 13:11		
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		08/18/23 23:10	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/18/23 23:10	16984-48-8	
Sulfate	**4.8**	mg/L	1.0	0.50	1		08/18/23 23:10	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92683124

Sample: YAT-YGWA-18S **Lab ID: 92683124008** Collected: 08/15/23 11:35 Received: 08/16/23 09:07 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	**0.80J**	mg/L	1.0	0.12	1	08/26/23 17:26	08/28/23 21:44	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	0.0012	1	08/21/23 18:00	08/25/23 17:53	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/21/23 18:00	08/25/23 17:53	7440-38-2	
Barium	**0.012**	mg/L	0.0050	0.00067	1	08/21/23 18:00	08/25/23 17:53	7440-39-3	
Beryllium	**0.000057J**	mg/L	0.00050	0.000054	1	08/21/23 18:00	08/25/23 17:53	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	08/21/23 18:00	08/25/23 17:53	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/21/23 18:00	08/25/23 17:53	7440-43-9	
Chromium	**0.0013J**	mg/L	0.0050	0.0011	1	08/21/23 18:00	08/25/23 17:53	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/21/23 18:00	08/25/23 17:53	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/21/23 18:00	08/25/23 17:53	7439-92-1	
Lithium	**0.00077J**	mg/L	0.030	0.00073	1	08/21/23 18:00	08/25/23 17:53	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/21/23 18:00	08/25/23 17:53	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/21/23 18:00	08/25/23 17:53	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/21/23 18:00	08/25/23 17:53	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00015J**	mg/L	0.00020	0.00013	1	08/22/23 11:20	08/22/23 17:44	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**81.0**	mg/L	25.0	25.0	1		08/21/23 13:11		
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		08/18/23 23:25	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/18/23 23:25	16984-48-8	
Sulfate	**0.88J**	mg/L	1.0	0.50	1		08/18/23 23:25	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92683124

Sample: YAT-YGWA-18I **Lab ID: 92683124009** Collected: 08/15/23 15:40 Received: 08/16/23 09:07 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	**5.1**	mg/L	1.0	0.12	1	08/26/23 17:26	08/28/23 21:49	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	0.0012	1	08/21/23 18:00	08/25/23 17:57	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/21/23 18:00	08/25/23 17:57	7440-38-2	
Barium	**0.020**	mg/L	0.0050	0.00067	1	08/21/23 18:00	08/25/23 17:57	7440-39-3	
Beryllium	ND	mg/L	0.0025	0.00027	5	08/21/23 18:00	08/28/23 13:46	7440-41-7	D3
Boron	ND	mg/L	0.20	0.043	5	08/21/23 18:00	08/28/23 13:46	7440-42-8	D3
Cadmium	ND	mg/L	0.00050	0.00011	1	08/21/23 18:00	08/25/23 17:57	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/21/23 18:00	08/25/23 17:57	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/21/23 18:00	08/25/23 17:57	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/21/23 18:00	08/25/23 17:57	7439-92-1	
Lithium	ND	mg/L	0.15	0.0036	5	08/21/23 18:00	08/28/23 13:46	7439-93-2	D3
Molybdenum	ND	mg/L	0.010	0.00074	1	08/21/23 18:00	08/25/23 17:57	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/21/23 18:00	08/25/23 17:57	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/21/23 18:00	08/25/23 17:57	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	08/22/23 11:20	08/22/23 17:46	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**96.0**	mg/L	25.0	25.0	1		08/21/23 13:12		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**7.3**	mg/L	1.0	0.60	1		08/18/23 23:39	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/18/23 23:39	16984-48-8	
Sulfate	**0.51J**	mg/L	1.0	0.50	1		08/18/23 23:39	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92683124

Sample: YAT-YGWA-14S **Lab ID: 92683124010** Collected: 08/15/23 17:30 Received: 08/16/23 09:07 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	**1.3**	mg/L	1.0	0.12	1	08/26/23 17:26	08/28/23 22:04	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	0.0012	1	08/21/23 18:00	08/25/23 18:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/21/23 18:00	08/25/23 18:01	7440-38-2	
Barium	**0.0079**	mg/L	0.0050	0.00067	1	08/21/23 18:00	08/25/23 18:01	7440-39-3	
Beryllium	**0.00018J**	mg/L	0.00050	0.000054	1	08/21/23 18:00	08/25/23 18:01	7440-41-7	
Boron	**0.017J**	mg/L	0.040	0.0086	1	08/21/23 18:00	08/25/23 18:01	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/21/23 18:00	08/25/23 18:01	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/21/23 18:00	08/25/23 18:01	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/21/23 18:00	08/25/23 18:01	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/21/23 18:00	08/25/23 18:01	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	08/21/23 18:00	08/25/23 18:01	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/21/23 18:00	08/25/23 18:01	7439-98-7	
Selenium	**0.0014J**	mg/L	0.0050	0.0014	1	08/21/23 18:00	08/25/23 18:01	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/21/23 18:00	08/25/23 18:01	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00016J**	mg/L	0.00020	0.00013	1	08/22/23 11:20	08/22/23 17:49	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**69.0**	mg/L	25.0	25.0	1		08/21/23 13:14		
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		08/19/23 00:22	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/19/23 00:22	16984-48-8	
Sulfate	**6.0**	mg/L	1.0	0.50	1		08/19/23 00:22	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92683124

Sample: YAT-YGWA-47 **Lab ID: 92683124011** Collected: 08/15/23 09:43 Received: 08/16/23 09:07 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	**9.6**	mg/L	1.0	0.12	1	08/26/23 17:26	08/28/23 22:10	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	0.0012	1	08/21/23 18:00	08/25/23 18:04	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/21/23 18:00	08/25/23 18:04	7440-38-2	
Barium	**0.032**	mg/L	0.0050	0.00067	1	08/21/23 18:00	08/25/23 18:04	7440-39-3	
Beryllium	ND	mg/L	0.0025	0.00027	5	08/21/23 18:00	08/28/23 13:58	7440-41-7	D3
Boron	ND	mg/L	0.20	0.043	5	08/21/23 18:00	08/28/23 13:58	7440-42-8	D3
Cadmium	ND	mg/L	0.00050	0.00011	1	08/21/23 18:00	08/25/23 18:04	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/21/23 18:00	08/25/23 18:04	7440-47-3	
Cobalt	**0.00072J**	mg/L	0.0050	0.00039	1	08/21/23 18:00	08/25/23 18:04	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/21/23 18:00	08/25/23 18:04	7439-92-1	
Lithium	**0.0040J**	mg/L	0.15	0.0036	5	08/21/23 18:00	08/28/23 13:58	7439-93-2	D3
Molybdenum	ND	mg/L	0.010	0.00074	1	08/21/23 18:00	08/25/23 18:04	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/21/23 18:00	08/25/23 18:04	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/21/23 18:00	08/25/23 18:04	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	08/22/23 11:20	08/22/23 17:52	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**186**	mg/L	25.0	25.0	1		08/21/23 13:15		
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		08/19/23 01:35	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/19/23 01:35	16984-48-8	
Sulfate	**47.7**	mg/L	1.0	0.50	1		08/19/23 01:35	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92683124

Sample: YAT-GWA-2 **Lab ID: 92683124012** Collected: 08/15/23 10:20 Received: 08/16/23 09:07 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	**20.3**	mg/L	1.0	0.12	1	08/24/23 09:50	08/24/23 19:39	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	0.0012	1	08/21/23 18:00	08/25/23 18:08	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/21/23 18:00	08/25/23 18:08	7440-38-2	
Barium	**0.030**	mg/L	0.0050	0.00067	1	08/21/23 18:00	08/25/23 18:08	7440-39-3	
Beryllium	ND	mg/L	0.0025	0.00027	5	08/21/23 18:00	08/28/23 14:04	7440-41-7	D3
Boron	ND	mg/L	0.20	0.043	5	08/21/23 18:00	08/28/23 14:04	7440-42-8	D3
Cadmium	ND	mg/L	0.00050	0.00011	1	08/21/23 18:00	08/25/23 18:08	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/21/23 18:00	08/25/23 18:08	7440-47-3	
Cobalt	**0.031**	mg/L	0.0050	0.00039	1	08/21/23 18:00	08/25/23 18:08	7440-48-4	
Copper	**0.0011J**	mg/L	0.0050	0.0010	1	08/21/23 18:00	08/25/23 18:08	7440-50-8	B
Lead	ND	mg/L	0.0010	0.00012	1	08/21/23 18:00	08/25/23 18:08	7439-92-1	
Lithium	ND	mg/L	0.15	0.0036	5	08/21/23 18:00	08/28/23 14:04	7439-93-2	D3
Molybdenum	ND	mg/L	0.010	0.00074	1	08/21/23 18:00	08/25/23 18:08	7439-98-7	
Nickel	**0.0098**	mg/L	0.0050	0.00071	1	08/21/23 18:00	08/25/23 18:08	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0014	1	08/21/23 18:00	08/25/23 18:08	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	08/21/23 18:00	08/25/23 18:08	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	08/21/23 18:00	08/25/23 18:08	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0025	1	08/21/23 18:00	08/25/23 18:08	7440-62-2	
Zinc	**0.0080J**	mg/L	0.010	0.0070	1	08/21/23 18:00	08/25/23 18:08	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	08/22/23 11:20	08/22/23 17:54	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**230**	mg/L	25.0	25.0	1		08/21/23 13:15		
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		08/19/23 01:49	16887-00-6	
Fluoride	**0.065J**	mg/L	0.10	0.050	1		08/19/23 01:49	16984-48-8	
Sulfate	**74.2**	mg/L	1.0	0.50	1		08/19/23 01:49	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92683124

Sample: YAT-YGWA-17S **Lab ID: 92683124013** Collected: 08/15/23 14:50 Received: 08/16/23 09:07 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	**2.9**	mg/L	1.0	0.12	1	08/26/23 17:26	08/28/23 22:15	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	0.0012	1	08/21/23 18:00	08/25/23 18:12	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/21/23 18:00	08/25/23 18:12	7440-38-2	
Barium	**0.016**	mg/L	0.0050	0.00067	1	08/21/23 18:00	08/25/23 18:12	7440-39-3	
Beryllium	ND	mg/L	0.0025	0.00027	5	08/21/23 18:00	08/28/23 14:24	7440-41-7	D3
Boron	ND	mg/L	0.20	0.043	5	08/21/23 18:00	08/28/23 14:24	7440-42-8	D3
Cadmium	ND	mg/L	0.00050	0.00011	1	08/21/23 18:00	08/25/23 18:12	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/21/23 18:00	08/25/23 18:12	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/21/23 18:00	08/25/23 18:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/21/23 18:00	08/25/23 18:12	7439-92-1	
Lithium	ND	mg/L	0.15	0.0036	5	08/21/23 18:00	08/28/23 14:24	7439-93-2	D3
Molybdenum	ND	mg/L	0.010	0.00074	1	08/21/23 18:00	08/25/23 18:12	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/21/23 18:00	08/25/23 18:12	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/21/23 18:00	08/25/23 18:12	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	08/22/23 11:20	08/22/23 17:57	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**74.0**	mg/L	25.0	25.0	1		08/21/23 13:16		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**11.6**	mg/L	1.0	0.60	1		08/19/23 02:04	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/19/23 02:04	16984-48-8	
Sulfate	**4.6**	mg/L	1.0	0.50	1		08/19/23 02:04	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92683124

Sample: YAT-YGWA-20S **Lab ID: 92683124014** Collected: 08/15/23 12:25 Received: 08/16/23 09:07 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	**2.2**	mg/L	1.0	0.12	1	08/26/23 17:26	08/28/23 22:20	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	0.0012	1	08/21/23 18:00	08/25/23 18:16	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/21/23 18:00	08/25/23 18:16	7440-38-2	
Barium	**0.012**	mg/L	0.0050	0.00067	1	08/21/23 18:00	08/25/23 18:16	7440-39-3	
Beryllium	ND	mg/L	0.0025	0.00027	5	08/21/23 18:00	08/28/23 14:30	7440-41-7	D3
Boron	ND	mg/L	0.20	0.043	5	08/21/23 18:00	08/28/23 14:30	7440-42-8	D3
Cadmium	ND	mg/L	0.00050	0.00011	1	08/21/23 18:00	08/25/23 18:16	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/21/23 18:00	08/25/23 18:16	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/21/23 18:00	08/25/23 18:16	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/21/23 18:00	08/25/23 18:16	7439-92-1	
Lithium	ND	mg/L	0.15	0.0036	5	08/21/23 18:00	08/28/23 14:30	7439-93-2	D3
Molybdenum	ND	mg/L	0.010	0.00074	1	08/21/23 18:00	08/25/23 18:16	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/21/23 18:00	08/25/23 18:16	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/21/23 18:00	08/25/23 18:16	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	08/22/23 11:20	08/22/23 17:59	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**62.0**	mg/L	25.0	25.0	1		08/21/23 13:16		
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		08/19/23 02:18	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/19/23 02:18	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/19/23 02:18	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92683124

Sample: YAT-YGWA-21I **Lab ID: 92683124015** Collected: 08/15/23 10:35 Received: 08/16/23 09:07 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	**6.1**	mg/L	1.0	0.12	1	08/26/23 17:26	08/28/23 22:25	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	08/21/23 18:00	08/25/23 18:19	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/21/23 18:00	08/25/23 18:19	7440-38-2	
Barium	**0.0075**	mg/L	0.0050	0.00067	1	08/21/23 18:00	08/25/23 18:19	7440-39-3	
Beryllium	ND	mg/L	0.0025	0.00027	5	08/21/23 18:00	08/29/23 17:06	7440-41-7	D3
Boron	**0.046J**	mg/L	0.20	0.043	5	08/21/23 18:00	08/29/23 17:06	7440-42-8	D3
Cadmium	ND	mg/L	0.00050	0.00011	1	08/21/23 18:00	08/25/23 18:19	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/21/23 18:00	08/25/23 18:19	7440-47-3	
Cobalt	**0.011**	mg/L	0.0050	0.00039	1	08/21/23 18:00	08/25/23 18:19	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/21/23 18:00	08/25/23 18:19	7439-92-1	
Lithium	**0.0062J**	mg/L	0.15	0.0036	5	08/21/23 18:00	08/29/23 17:06	7439-93-2	D3
Molybdenum	ND	mg/L	0.010	0.00074	1	08/21/23 18:00	08/25/23 18:19	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/21/23 18:00	08/25/23 18:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/21/23 18:00	08/25/23 18:19	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	08/22/23 11:20	08/22/23 18:02	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**126**	mg/L	25.0	25.0	1		08/21/23 13:16		
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		08/19/23 02:32	16887-00-6	
Fluoride	**0.061J**	mg/L	0.10	0.050	1		08/19/23 02:32	16984-48-8	
Sulfate	**4.1**	mg/L	1.0	0.50	1		08/19/23 02:32	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92683124

Sample: YAT-YGWA-39 **Lab ID: 92683124016** Collected: 08/15/23 16:11 Received: 08/16/23 09:07 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	**17.2**	mg/L	1.0	0.12	1	08/26/23 17:26	08/28/23 22:30	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	0.0012	1	08/21/23 18:00	08/25/23 18:31	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/21/23 18:00	08/25/23 18:31	7440-38-2	
Barium	**0.031**	mg/L	0.0050	0.00067	1	08/21/23 18:00	08/25/23 18:31	7440-39-3	
Beryllium	ND	mg/L	0.0025	0.00027	5	08/21/23 18:00	08/28/23 14:36	7440-41-7	D3
Boron	**0.15J**	mg/L	0.20	0.043	5	08/21/23 18:00	08/28/23 14:36	7440-42-8	D3
Cadmium	ND	mg/L	0.00050	0.00011	1	08/21/23 18:00	08/25/23 18:31	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/21/23 18:00	08/25/23 18:31	7440-47-3	
Cobalt	**0.00072J**	mg/L	0.0050	0.00039	1	08/21/23 18:00	08/25/23 18:31	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/21/23 18:00	08/25/23 18:31	7439-92-1	
Lithium	**0.0064J**	mg/L	0.15	0.0036	5	08/21/23 18:00	08/28/23 14:36	7439-93-2	D3
Molybdenum	**0.0061J**	mg/L	0.010	0.00074	1	08/21/23 18:00	08/25/23 18:31	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/21/23 18:00	08/25/23 18:31	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/21/23 18:00	08/25/23 18:31	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	08/22/23 11:20	08/22/23 18:05	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		08/21/23 13:16		
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		08/19/23 02:47	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/19/23 02:47	16984-48-8	
Sulfate	**7.6**	mg/L	1.0	0.50	1		08/19/23 02:47	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92683124

Sample: YAT-YGWA-40 **Lab ID: 92683124017** Collected: 08/15/23 17:20 Received: 08/16/23 09:07 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	**5.3**	mg/L	1.0	0.12	1	08/26/23 17:26	08/28/23 22:35	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	0.0012	1	08/21/23 18:00	08/25/23 18:34	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/21/23 18:00	08/25/23 18:34	7440-38-2	
Barium	**0.034**	mg/L	0.0050	0.00067	1	08/21/23 18:00	08/25/23 18:34	7440-39-3	
Beryllium	ND	mg/L	0.0025	0.00027	5	08/21/23 18:00	08/28/23 14:42	7440-41-7	D3
Boron	**0.052J**	mg/L	0.20	0.043	5	08/21/23 18:00	08/28/23 14:42	7440-42-8	D3
Cadmium	ND	mg/L	0.00050	0.00011	1	08/21/23 18:00	08/25/23 18:34	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/21/23 18:00	08/25/23 18:34	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/21/23 18:00	08/25/23 18:34	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/21/23 18:00	08/25/23 18:34	7439-92-1	
Lithium	ND	mg/L	0.15	0.0036	5	08/21/23 18:00	08/28/23 14:42	7439-93-2	D3
Molybdenum	ND	mg/L	0.010	0.00074	1	08/21/23 18:00	08/25/23 18:34	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/21/23 18:00	08/25/23 18:34	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/21/23 18:00	08/25/23 18:34	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00037**	mg/L	0.00020	0.00013	1	08/22/23 11:20	08/22/23 18:07	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**83.0**	mg/L	25.0	25.0	1		08/21/23 13:17		
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		08/19/23 03:01	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/19/23 03:01	16984-48-8	
Sulfate	**16.4**	mg/L	1.0	0.50	1		08/19/23 03:01	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92683124

Sample: YAT-YGWA-30I **Lab ID: 92683124018** Collected: 08/16/23 12:20 Received: 08/17/23 09:55 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	08/29/23 09:23	08/29/23 22:45	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	0.0012	1	08/21/23 18:00	08/25/23 18:42	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/21/23 18:00	08/25/23 18:42	7440-38-2	
Barium	**0.0066**	mg/L	0.0050	0.00067	1	08/21/23 18:00	08/25/23 18:42	7440-39-3	
Beryllium	ND	mg/L	0.0025	0.00027	5	08/21/23 18:00	08/28/23 14:54	7440-41-7	D3
Boron	ND	mg/L	0.20	0.043	5	08/21/23 18:00	08/28/23 14:54	7440-42-8	D3
Cadmium	ND	mg/L	0.00050	0.00011	1	08/21/23 18:00	08/25/23 18:42	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/21/23 18:00	08/25/23 18:42	7440-47-3	
Cobalt	**0.0028J**	mg/L	0.0050	0.00039	1	08/21/23 18:00	08/25/23 18:42	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/21/23 18:00	08/25/23 18:42	7439-92-1	
Lithium	ND	mg/L	0.15	0.0036	5	08/21/23 18:00	08/28/23 14:54	7439-93-2	D3
Molybdenum	ND	mg/L	0.010	0.00074	1	08/21/23 18:00	08/25/23 18:42	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/21/23 18:00	08/25/23 18:42	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/21/23 18:00	08/25/23 18:42	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	08/22/23 13:00	08/22/23 19:00	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**48.0**	mg/L	25.0	25.0	1		08/22/23 16:00		
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		08/19/23 18:58	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/19/23 18:58	16984-48-8	
Sulfate	**0.90J**	mg/L	1.0	0.50	1		08/19/23 18:58	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92683124

Sample: YAT-YGWA-3I **Lab ID: 92683124019** Collected: 08/16/23 10:50 Received: 08/17/23 09:55 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	**24.9**	mg/L	1.0	0.12	1	08/29/23 09:23	08/29/23 22:55	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.0012	1	08/21/23 18:00	08/25/23 18:45	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0037	1	08/21/23 18:00	08/25/23 18:45	7440-38-2	
Barium	**0.0037J**	mg/L	0.0050	0.00067	1	08/21/23 18:00	08/25/23 18:45	7440-39-3	
Beryllium	ND	mg/L	0.0025	0.00027	5	08/21/23 18:00	08/28/23 15:00	7440-41-7	D3
Boron	ND	mg/L	0.20	0.043	5	08/21/23 18:00	08/28/23 15:00	7440-42-8	D3
Cadmium	ND	mg/L	0.00050	0.00011	1	08/21/23 18:00	08/25/23 18:45	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/21/23 18:00	08/25/23 18:45	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/21/23 18:00	08/25/23 18:45	7440-48-4	
Lead	ND	mg/L	0.0010	0.00012	1	08/21/23 18:00	08/25/23 18:45	7439-92-1	
Lithium	**0.025J**	mg/L	0.15	0.0036	5	08/21/23 18:00	08/28/23 15:00	7439-93-2	D3
Molybdenum	**0.012**	mg/L	0.010	0.00074	1	08/21/23 18:00	08/25/23 18:45	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/21/23 18:00	08/25/23 18:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/21/23 18:00	08/25/23 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	08/22/23 13:00	08/22/23 19:02	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**148**	mg/L	25.0	25.0	1		08/22/23 16:00		
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		08/19/23 19:43	16887-00-6	
Fluoride	**0.11**	mg/L	0.10	0.050	1		08/19/23 19:43	16984-48-8	M1
Sulfate	**20.3**	mg/L	1.0	0.50	1		08/19/23 19:43	14808-79-8	

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92683124

QC Batch: 795463
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92683124001, 92683124002, 92683124003, 92683124004, 92683124012

METHOD BLANK: 4121755 Matrix: Water
Associated Lab Samples: 92683124001, 92683124002, 92683124003, 92683124004, 92683124012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	08/24/23 18:37	

LABORATORY CONTROL SAMPLE: 4121756

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4121757 4121758

Parameter	Units	92682927022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	107	1	1	100	103	-623	-414	75-125	2	20	M1

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92683124

QC Batch: 795958
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92683124005, 92683124006, 92683124007, 92683124008, 92683124009, 92683124010, 92683124011, 92683124013, 92683124014, 92683124015, 92683124016, 92683124017

METHOD BLANK: 4124394 Matrix: Water
Associated Lab Samples: 92683124005, 92683124006, 92683124007, 92683124008, 92683124009, 92683124010, 92683124011, 92683124013, 92683124014, 92683124015, 92683124016, 92683124017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	08/28/23 21:02	

LABORATORY CONTROL SAMPLE: 4124395

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.97J	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4124396 4124397

Parameter	Units	92683124005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	7.8	1	1	8.9	9.1	106	127	75-125	2	20	M1

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92683124

QC Batch: 796454
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92683124018, 92683124019

METHOD BLANK: 4126638 Matrix: Water
Associated Lab Samples: 92683124018, 92683124019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	08/29/23 20:25	

LABORATORY CONTROL SAMPLE: 4126639

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4126640 4126641

Parameter	Units	92683139003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	34.6	1	1	34.9	36.9	31	227	75-125	5	20	M1

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92683124

QC Batch: 794949
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92683124001, 92683124002, 92683124003, 92683124004, 92683124005, 92683124006, 92683124007, 92683124008, 92683124009, 92683124010, 92683124011, 92683124012, 92683124013, 92683124014, 92683124015, 92683124016, 92683124017, 92683124018, 92683124019

METHOD BLANK: 4119064
Matrix: Water
Associated Lab Samples: 92683124001, 92683124002, 92683124003, 92683124004, 92683124005, 92683124006, 92683124007, 92683124008, 92683124009, 92683124010, 92683124011, 92683124012, 92683124013, 92683124014, 92683124015, 92683124016, 92683124017, 92683124018, 92683124019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.0012	08/25/23 17:01	
Arsenic	mg/L	ND	0.0050	0.0037	08/25/23 17:01	
Barium	mg/L	ND	0.0050	0.00067	08/25/23 17:01	
Beryllium	mg/L	ND	0.00050	0.000054	08/25/23 17:01	
Boron	mg/L	ND	0.040	0.0086	08/25/23 17:01	
Cadmium	mg/L	ND	0.00050	0.00011	08/25/23 17:01	
Chromium	mg/L	ND	0.0050	0.0011	08/25/23 17:01	
Cobalt	mg/L	ND	0.0050	0.00039	08/25/23 17:01	
Copper	mg/L	ND	0.0050	0.0010	08/25/23 17:01	
Lead	mg/L	ND	0.0010	0.00012	08/25/23 17:01	
Lithium	mg/L	ND	0.030	0.00073	08/25/23 17:01	
Molybdenum	mg/L	ND	0.010	0.00074	08/25/23 17:01	
Nickel	mg/L	ND	0.0050	0.00071	08/25/23 17:01	
Selenium	mg/L	ND	0.0050	0.0014	08/25/23 17:01	
Silver	mg/L	ND	0.0050	0.00044	08/25/23 17:01	
Thallium	mg/L	ND	0.0010	0.00018	08/25/23 17:01	
Vanadium	mg/L	ND	0.010	0.0025	08/25/23 17:01	
Zinc	mg/L	ND	0.010	0.0070	08/25/23 17:01	

LABORATORY CONTROL SAMPLE: 4119065

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	103	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.096	96	80-120	
Beryllium	mg/L	0.1	0.11	109	80-120	
Boron	mg/L	1	1.0	103	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.10	104	80-120	
Copper	mg/L	0.1	0.10	105	80-120	
Lead	mg/L	0.1	0.10	104	80-120	
Lithium	mg/L	0.1	0.11	113	80-120	
Molybdenum	mg/L	0.1	0.10	104	80-120	
Nickel	mg/L	0.1	0.10	102	80-120	

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92683124

LABORATORY CONTROL SAMPLE: 4119065

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Selenium	mg/L	0.1	0.10	104	80-120	
Silver	mg/L	0.1	0.10	100	80-120	
Thallium	mg/L	0.1	0.10	104	80-120	
Vanadium	mg/L	0.1	0.10	101	80-120	
Zinc	mg/L	0.1	0.10	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4119066 4119067

Parameter	Units	92683124003 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	102	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	101	101	75-125	0	20	
Barium	mg/L	0.0031J	0.1	0.1	0.11	0.11	103	103	75-125	0	20	
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	103	105	75-125	2	20	
Boron	mg/L	ND	1	1	1.1	1.1	105	106	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.098	0.098	98	98	75-125	0	20	
Chromium	mg/L	ND	0.1	0.1	0.099	0.10	99	101	75-125	3	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	100	102	75-125	2	20	
Copper	mg/L	0.0011J	0.1	0.1	0.099	0.10	98	102	75-125	4	20	
Lead	mg/L	ND	0.1	0.1	0.099	0.10	99	100	75-125	1	20	
Lithium	mg/L	ND	0.1	0.1	0.11J	0.11J	103	104	75-125		20	
Molybdenum	mg/L	0.0071J	0.1	0.1	0.11	0.11	104	105	75-125	0	20	
Nickel	mg/L	ND	0.1	0.1	0.099	0.10	99	102	75-125	4	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.099	100	99	75-125	1	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	0.10	0.10	100	101	75-125	1	20	
Vanadium	mg/L	ND	0.1	0.1	0.10	0.10	100	103	75-125	3	20	
Zinc	mg/L	ND	0.1	0.1	0.099	0.10	96	99	75-125	3	20	

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92683124

QC Batch: 795036
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92683124001, 92683124002, 92683124003, 92683124004, 92683124005, 92683124006, 92683124007, 92683124008, 92683124009, 92683124010, 92683124011, 92683124012, 92683124013, 92683124014, 92683124015, 92683124016, 92683124017

METHOD BLANK: 4119606 Matrix: Water
Associated Lab Samples: 92683124001, 92683124002, 92683124003, 92683124004, 92683124005, 92683124006, 92683124007, 92683124008, 92683124009, 92683124010, 92683124011, 92683124012, 92683124013, 92683124014, 92683124015, 92683124016, 92683124017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	08/22/23 16:32	

LABORATORY CONTROL SAMPLE: 4119607

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0023	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4119608 4119609

Parameter	Units	92682398009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	0.00013J	0.0025	0.0025	0.0034	0.0034	131	132	75-125	0	20	M1

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92683124

QC Batch: 795037
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92683124018, 92683124019

METHOD BLANK: 4119610 Matrix: Water
Associated Lab Samples: 92683124018, 92683124019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	08/22/23 18:15	

LABORATORY CONTROL SAMPLE: 4119611

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0027	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4119612 4119613

Parameter	Units	92683139001 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	0.0028	0.0028	111	112	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92683124

QC Batch: 794901
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: 92683124001, 92683124002, 92683124003, 92683124004, 92683124005, 92683124006, 92683124007, 92683124008, 92683124009, 92683124010, 92683124011, 92683124012, 92683124013, 92683124014, 92683124015, 92683124016, 92683124017

METHOD BLANK: 4118686 Matrix: Water
Associated Lab Samples: 92683124001, 92683124002, 92683124003, 92683124004, 92683124005, 92683124006, 92683124007, 92683124008, 92683124009, 92683124010, 92683124011, 92683124012, 92683124013, 92683124014, 92683124015, 92683124016, 92683124017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	08/21/23 13:08	

LABORATORY CONTROL SAMPLE: 4118687

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	402	100	80-120	

SAMPLE DUPLICATE: 4118688

Parameter	Units	92683065001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	669	640	4	10	

SAMPLE DUPLICATE: 4118689

Parameter	Units	92683124010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	69.0	68.0	1	10	

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92683124

QC Batch: 795117
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: 92683124018, 92683124019

METHOD BLANK: 4119882 Matrix: Water
Associated Lab Samples: 92683124018, 92683124019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	08/22/23 15:56	

LABORATORY CONTROL SAMPLE: 4119883

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	385	96	80-120	

SAMPLE DUPLICATE: 4119884

Parameter	Units	92683139008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 4119885

Parameter	Units	92683384007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	97.0	89.0	9	10	

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92683124

QC Batch: 794487
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: 92683124001, 92683124002, 92683124003, 92683124004, 92683124005, 92683124006, 92683124007, 92683124008, 92683124009

METHOD BLANK: 4116654 Matrix: Water
Associated Lab Samples: 92683124001, 92683124002, 92683124003, 92683124004, 92683124005, 92683124006, 92683124007, 92683124008, 92683124009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/18/23 16:41	
Fluoride	mg/L	ND	0.10	0.050	08/18/23 16:41	
Sulfate	mg/L	ND	1.0	0.50	08/18/23 16:41	

LABORATORY CONTROL SAMPLE: 4116655

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.5	99	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	48.1	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4116656 4116657

Parameter	Units	92683111001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	101	50	50	140	143	79	84	90-110	2	10	M1
Fluoride	mg/L	8.0	2.5	2.5	9.2	9.3	48	53	90-110	1	10	M1
Sulfate	mg/L	555	50	50	590	596	70	82	90-110	1	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4116658 4116659

Parameter	Units	92682998003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	216	50	50	259	257	86	81	90-110	1	10	M1
Fluoride	mg/L	0.12	2.5	2.5	2.4	2.4	91	93	90-110	2	10	
Sulfate	mg/L	96.1	50	50	128	127	64	62	90-110	1	10	M1

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92683124

QC Batch: 794488
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: 92683124010, 92683124011, 92683124012, 92683124013, 92683124014, 92683124015, 92683124016, 92683124017

METHOD BLANK: 4116660 Matrix: Water
Associated Lab Samples: 92683124010, 92683124011, 92683124012, 92683124013, 92683124014, 92683124015, 92683124016, 92683124017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/18/23 23:54	
Fluoride	mg/L	ND	0.10	0.050	08/18/23 23:54	
Sulfate	mg/L	ND	1.0	0.50	08/18/23 23:54	

LABORATORY CONTROL SAMPLE: 4116661

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	99	90-110	
Sulfate	mg/L	50	48.2	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4116662 4116663

Parameter	Units	92683124010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.1	50	50	51.8	53.2	96	98	90-110	3	10	
Fluoride	mg/L	ND	2.5	2.5	2.3	2.4	93	96	90-110	4	10	
Sulfate	mg/L	6.0	50	50	52.3	53.7	93	95	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4116664 4116665

Parameter	Units	92683137003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.6	50	50	53.8	54.5	96	98	90-110	1	10	
Fluoride	mg/L	0.070J	2.5	2.5	2.3	2.4	91	93	90-110	2	10	
Sulfate	mg/L	154	50	50	194	194	79	79	90-110	0	10	M1

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92683124

QC Batch: 794746
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: 92683124018

METHOD BLANK: 4118285 Matrix: Water
Associated Lab Samples: 92683124018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/19/23 11:26	
Fluoride	mg/L	ND	0.10	0.050	08/19/23 11:26	
Sulfate	mg/L	ND	1.0	0.50	08/19/23 11:26	

LABORATORY CONTROL SAMPLE: 4118286

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.8	100	90-110	
Fluoride	mg/L	2.5	2.7	106	90-110	
Sulfate	mg/L	50	49.5	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4118287 4118288

Parameter	Units	92683419001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	7.0	50	50	55.4	57.3	97	101	90-110	3	10	
Fluoride	mg/L	ND	2.5	2.5	2.7	2.8	105	108	90-110	3	10	
Sulfate	mg/L	2.8	50	50	50.7	52.7	96	100	90-110	4	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4118289 4118290

Parameter	Units	92683310003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	237	50	50	279	280	84	86	90-110	0	10	M1
Fluoride	mg/L	0.13	2.5	2.5	3.0	3.0	113	116	90-110	2	10	M1
Sulfate	mg/L	97.5	50	50	138	139	81	83	90-110	1	10	M1

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92683124

QC Batch: 794747
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: 92683124019

METHOD BLANK: 4118291 Matrix: Water
Associated Lab Samples: 92683124019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/19/23 19:13	
Fluoride	mg/L	ND	0.10	0.050	08/19/23 19:13	
Sulfate	mg/L	ND	1.0	0.50	08/19/23 19:13	

LABORATORY CONTROL SAMPLE: 4118292

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.8	100	90-110	
Fluoride	mg/L	2.5	2.7	106	90-110	
Sulfate	mg/L	50	49.7	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4118293 4118294

Parameter	Units	92683124019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.1	50	50	50.4	50.8	99	99	90-110	1	10	
Fluoride	mg/L	0.11	2.5	2.5	2.9	2.9	110	112	90-110	2	10	M1
Sulfate	mg/L	20.3	50	50	68.5	69.0	96	97	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4118295 4118296

Parameter	Units	92683384010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.3	50	50	51.7	52.3	99	100	90-110	1	10	
Fluoride	mg/L	0.062J	2.5	2.5	3.2	3.3	126	130	90-110	3	10	M1
Sulfate	mg/L	151	50	50	194	194	86	87	90-110	0	10	M1

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QUALIFIERS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92683124

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.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92683124

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92683124001	**YAT-YGWA-1I**	EPA 3010A	795463	EPA 6010D	795706
92683124002	**YAT-YGWA-1D**	EPA 3010A	795463	EPA 6010D	795706
92683124003	**YAT-YGWA-2I**	EPA 3010A	795463	EPA 6010D	795706
92683124004	**YAT-YGWA-3D**	EPA 3010A	795463	EPA 6010D	795706
92683124005	**YAT-YGWA-4I**	EPA 3010A	795958	EPA 6010D	796217
92683124006	**YAT-YGWA-5I**	EPA 3010A	795958	EPA 6010D	796217
92683124007	**YAT-YGWA-5D**	EPA 3010A	795958	EPA 6010D	796217
92683124008	**YAT-YGWA-18S**	EPA 3010A	795958	EPA 6010D	796217
92683124009	**YAT-YGWA-18I**	EPA 3010A	795958	EPA 6010D	796217
92683124010	**YAT-YGWA-14S**	EPA 3010A	795958	EPA 6010D	796217
92683124011	**YAT-YGWA-47**	EPA 3010A	795958	EPA 6010D	796217
92683124012	**YAT-GWA-2**	EPA 3010A	795463	EPA 6010D	795706
92683124013	**YAT-YGWA-17S**	EPA 3010A	795958	EPA 6010D	796217
92683124014	**YAT-YGWA-20S**	EPA 3010A	795958	EPA 6010D	796217
92683124015	**YAT-YGWA-21I**	EPA 3010A	795958	EPA 6010D	796217
92683124016	**YAT-YGWA-39**	EPA 3010A	795958	EPA 6010D	796217
92683124017	**YAT-YGWA-40**	EPA 3010A	795958	EPA 6010D	796217
92683124018	**YAT-YGWA-30I**	EPA 3010A	796454	EPA 6010D	796604
92683124019	**YAT-YGWA-3I**	EPA 3010A	796454	EPA 6010D	796604
92683124001	**YAT-YGWA-1I**	EPA 3005A	794949	EPA 6020B	795122
92683124002	**YAT-YGWA-1D**	EPA 3005A	794949	EPA 6020B	795122
92683124003	**YAT-YGWA-2I**	EPA 3005A	794949	EPA 6020B	795122
92683124004	**YAT-YGWA-3D**	EPA 3005A	794949	EPA 6020B	795122
92683124005	**YAT-YGWA-4I**	EPA 3005A	794949	EPA 6020B	795122
92683124006	**YAT-YGWA-5I**	EPA 3005A	794949	EPA 6020B	795122
92683124007	**YAT-YGWA-5D**	EPA 3005A	794949	EPA 6020B	795122
92683124008	**YAT-YGWA-18S**	EPA 3005A	794949	EPA 6020B	795122
92683124009	**YAT-YGWA-18I**	EPA 3005A	794949	EPA 6020B	795122
92683124010	**YAT-YGWA-14S**	EPA 3005A	794949	EPA 6020B	795122
92683124011	**YAT-YGWA-47**	EPA 3005A	794949	EPA 6020B	795122
92683124012	**YAT-GWA-2**	EPA 3005A	794949	EPA 6020B	795122
92683124013	**YAT-YGWA-17S**	EPA 3005A	794949	EPA 6020B	795122
92683124014	**YAT-YGWA-20S**	EPA 3005A	794949	EPA 6020B	795122
92683124015	**YAT-YGWA-21I**	EPA 3005A	794949	EPA 6020B	795122
92683124016	**YAT-YGWA-39**	EPA 3005A	794949	EPA 6020B	795122
92683124017	**YAT-YGWA-40**	EPA 3005A	794949	EPA 6020B	795122
92683124018	**YAT-YGWA-30I**	EPA 3005A	794949	EPA 6020B	795122
92683124019	**YAT-YGWA-3I**	EPA 3005A	794949	EPA 6020B	795122
92683124001	**YAT-YGWA-1I**	EPA 7470A	795036	EPA 7470A	795161
92683124002	**YAT-YGWA-1D**	EPA 7470A	795036	EPA 7470A	795161
92683124003	**YAT-YGWA-2I**	EPA 7470A	795036	EPA 7470A	795161
92683124004	**YAT-YGWA-3D**	EPA 7470A	795036	EPA 7470A	795161
92683124005	**YAT-YGWA-4I**	EPA 7470A	795036	EPA 7470A	795161
92683124006	**YAT-YGWA-5I**	EPA 7470A	795036	EPA 7470A	795161
92683124007	**YAT-YGWA-5D**	EPA 7470A	795036	EPA 7470A	795161
92683124008	**YAT-YGWA-18S**	EPA 7470A	795036	EPA 7470A	795161

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92683124

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92683124009	**YAT-YGWA-18I**	EPA 7470A	795036	EPA 7470A	795161
92683124010	**YAT-YGWA-14S**	EPA 7470A	795036	EPA 7470A	795161
92683124011	**YAT-YGWA-47**	EPA 7470A	795036	EPA 7470A	795161
92683124012	**YAT-GWA-2**	EPA 7470A	795036	EPA 7470A	795161
92683124013	**YAT-YGWA-17S**	EPA 7470A	795036	EPA 7470A	795161
92683124014	**YAT-YGWA-20S**	EPA 7470A	795036	EPA 7470A	795161
92683124015	**YAT-YGWA-21I**	EPA 7470A	795036	EPA 7470A	795161
92683124016	**YAT-YGWA-39**	EPA 7470A	795036	EPA 7470A	795161
92683124017	**YAT-YGWA-40**	EPA 7470A	795036	EPA 7470A	795161
92683124018	**YAT-YGWA-30I**	EPA 7470A	795037	EPA 7470A	795162
92683124019	**YAT-YGWA-3I**	EPA 7470A	795037	EPA 7470A	795162
92683124001	**YAT-YGWA-1I**	SM 2540C-2015	794901		
92683124002	**YAT-YGWA-1D**	SM 2540C-2015	794901		
92683124003	**YAT-YGWA-2I**	SM 2540C-2015	794901		
92683124004	**YAT-YGWA-3D**	SM 2540C-2015	794901		
92683124005	**YAT-YGWA-4I**	SM 2540C-2015	794901		
92683124006	**YAT-YGWA-5I**	SM 2540C-2015	794901		
92683124007	**YAT-YGWA-5D**	SM 2540C-2015	794901		
92683124008	**YAT-YGWA-18S**	SM 2540C-2015	794901		
92683124009	**YAT-YGWA-18I**	SM 2540C-2015	794901		
92683124010	**YAT-YGWA-14S**	SM 2540C-2015	794901		
92683124011	**YAT-YGWA-47**	SM 2540C-2015	794901		
92683124012	**YAT-GWA-2**	SM 2540C-2015	794901		
92683124013	**YAT-YGWA-17S**	SM 2540C-2015	794901		
92683124014	**YAT-YGWA-20S**	SM 2540C-2015	794901		
92683124015	**YAT-YGWA-21I**	SM 2540C-2015	794901		
92683124016	**YAT-YGWA-39**	SM 2540C-2015	794901		
92683124017	**YAT-YGWA-40**	SM 2540C-2015	794901		
92683124018	**YAT-YGWA-30I**	SM 2540C-2015	795117		
92683124019	**YAT-YGWA-3I**	SM 2540C-2015	795117		
92683124001	**YAT-YGWA-1I**	EPA 300.0 Rev 2.1 1993	794487		
92683124002	**YAT-YGWA-1D**	EPA 300.0 Rev 2.1 1993	794487		
92683124003	**YAT-YGWA-2I**	EPA 300.0 Rev 2.1 1993	794487		
92683124004	**YAT-YGWA-3D**	EPA 300.0 Rev 2.1 1993	794487		
92683124005	**YAT-YGWA-4I**	EPA 300.0 Rev 2.1 1993	794487		
92683124006	**YAT-YGWA-5I**	EPA 300.0 Rev 2.1 1993	794487		
92683124007	**YAT-YGWA-5D**	EPA 300.0 Rev 2.1 1993	794487		
92683124008	**YAT-YGWA-18S**	EPA 300.0 Rev 2.1 1993	794487		
92683124009	**YAT-YGWA-18I**	EPA 300.0 Rev 2.1 1993	794487		
92683124010	**YAT-YGWA-14S**	EPA 300.0 Rev 2.1 1993	794488		
92683124011	**YAT-YGWA-47**	EPA 300.0 Rev 2.1 1993	794488		
92683124012	**YAT-GWA-2**	EPA 300.0 Rev 2.1 1993	794488		
92683124013	**YAT-YGWA-17S**	EPA 300.0 Rev 2.1 1993	794488		
92683124014	**YAT-YGWA-20S**	EPA 300.0 Rev 2.1 1993	794488		
92683124015	**YAT-YGWA-21I**	EPA 300.0 Rev 2.1 1993	794488		
92683124016	**YAT-YGWA-39**	EPA 300.0 Rev 2.1 1993	794488		

REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92683124

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92683124017	**YAT-YGWA-40**	EPA 300.0 Rev 2.1 1993	794488		
92683124018	**YAT-YGWA-30I**	EPA 300.0 Rev 2.1 1993	794746		
92683124019	**YAT-YGWA-3I**	EPA 300.0 Rev 2.1 1993	794747		

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Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Off Power

Project #: WO# : 92683124

92683124

Courier: ☐ Commercial ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 8/16/23 CMH

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: 2.3 **Correction Factor:** Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.3

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (Internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

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#: 92683124

PM: BV **Due Date: 08/30/23**

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		1	1			2																			2				
2		1	1			2																			2				
3		1	1			2																			2				
4		1	1			2																			2				
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S2	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax:	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	~~Nicole D'Orio~~ Bonne
Requested Due Date:	Standard	Project Number:		Pace Profile #:	~~10840~~ 1165, 1, 2 Vary

Regulatory Agency: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals +Ge,Hg,Tl	Cl, F, SO4	TDS (2540C)	RAD (9315/9320)	App IV (gypsum only)	Residual Chlorine (Y/N)	726831 24
1	YAT-YGWA-39	WG	G			--	--		6	2		4							X	X	X	X			
2	YAT-YGWA-40	WG	G			--	--		6	2		4							X	X	X	X			
3	YAT-YGWA-1I	WG	G	8/15/23	1345	--	--		6	2		4							X	X	X	X			001
4	YAT-YGWA-1D	WG	G	8/9/23	1120	--	--		6	2		4							X	X	X	X			002
5	YAT-YGWA-2I	WG	G	8/15/23	1545	--	--		6	2		4							X	X	X	X			003
6	YAT-YGWA-3I	WG	G			--	--		6	2		4							X	X	X	X			
7	YAT-YGWA-3D	WG	G	8/15/23	1140	--	--		6	2		4							X	X	X	X			004
8						--	--																		
9						--	--																		
10						--	--																		
11						--	--																		
12						--	--																		

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/15/23	1805	/Arcadis	8/15/23	1805	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	/Arcadis	8/14/23	0907	Ryan William /Pace	8/14/23	0907	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan William /Pace	8/14/23	1115		8/14/23	1115	

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER:	(Arcadis) -	David Trout			
SIGNATURE of SAMPLER:	(Arcadis)		DATE Signed:	8/15/23	

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Gft Power

Project # WO#: 92683124

PM: BV Due Date: 08/30/23

CLIENT: 92-GP-Yates

Courier: ☐ Commercial ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 8/14/23 CMH

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: 2.3 **Correction Factor:** Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.3

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

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#: 92683124**

PM: BV **Due Date: 08/30/23**

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)
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S2	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	~~Nicole D'Olier~~ Barnes
Requested Due Date:	Standard	Project Number:		Pace Profile #:	10840 Jay

Regulatory Agency: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals + Boron, Ca	Cl, F, SO4	TDS (2540C)	RAD 9315/8320	App I (gypsum only)	Residual Chlorine (Y/N)	92683124
1	YAT-YGWA-47	WG	G			--	--		6	2		4							X	X	X	X				
2	YAT-GWA-2	WG	G			--	--		6	2		4							X	X	X	X	X			
3	YAT-YGWA-4I	WG	G	8/15/23	1725	--	--		6	2		4							X	X	X	X				005
4	YAT-YGWA-5I	WG	G	8/15/23	1020	--	--		6	2		4							X	X	X	X				006
5	YAT-YGWA-5D	WG	G	8/15/23	1113	--	--		6	2		4							X	X	X	X				007
6	YAT-YGWA-17S	WG	G			--	--		6	2		4							X	X	X	X				
7	YAT-YGWA-18S	WG	G	8/15/23	1455	--	--		6	2		4							X	X	X	X				008
8	YAT-YGWA-18I	WG	G	8/15/23	1540	--	--		6	2		4							X	X	X	X				009
9	YAT-YGWA-20S	WG	G			--	--		6	2		4							X	X	X	X				
10	YAT-YGWA-21I	WG	G			--	--		6	2		4							X	X	X	X				
11	YAT-YGWA-30I	WG	G			--	--		6	2		4							X	X	X	X				
12	YAT-YGWA-14S	WG	G	8/15/23	1730	--	--		6	2		4							X	X	X	X				010

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/16/23	0755		8/16/23	0755	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	Arcadis	8/16/23	0901	Ryan Williams / Pace	8/16/23	0907	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan Williams / Pace	8/16/23	1115		8/16/23	1115	

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Kim Lapsevynski					
SIGNATURE of SAMPLER:		DATE Signed: 8/16/23				

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Off Power

Project #: **WO# : 92683124**

Courier: ☐ Commercial ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Pace ☐ Other:

PM: BV Due Date: 08/30/23

CLIENT: 92-GP-Yates

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 8/16/23 CMH

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: 2.3 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 2.3

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#: 92683124**

PM: BV Due Date: 08/30/23

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)	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)	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)
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : | Of |

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S2	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	~~Nicole D'Oleo~~ Brooke Hanna
Requested Due Date:	Standard	Project Number:		Pace Profile #:	10840

Regulatory Agency

State / Location: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals + Ca + Na + K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	92683124
1	YAT-YGWA-47	WG	G	8/15/23	0943	--	--		6	2		4							X	X	X	X			011
2	YAT-GWA-2	WG	G			--	--		6	2		4							X	X	X	X	X		
3	YAT-YGWA-4I	WG	G			--	--		6	2		4							X	X	X	X			
4	YAT-YGWA-5I	WG	G			--	--		6	2		4							X	X	X	X			
5	YAT-YGWA-5D	WG	G			--	--		6	2		4							X	X	X	X			
6	YAT-YGWA-17S	WG	G			--	--		6	2		4							X	X	X	X			
7	YAT-YGWA-18S	WG	G			--	--		6	2		4							X	X	X	X			
8	YAT-YGWA-18I	WG	G			--	--		6	2		4							X	X	X	X			
9	YAT-YGWA-20S	WG	G			--	--		6	2		4							X	X	X	X			
10	YAT-YGWA-21I	WG	G			--	--		6	2		4							X	X	X	X			
11	YAT-YGWA-30I	WG	G			--	--		6	2		4							X	X	X	X			
12	YAT-YGWA-14S	WG	G			--	--		6	2		4							X	X	X	X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Mark Chest / Arcadis	8/16/23	0907	Ryan Williams / Pace	8/16/23	0907	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	Ryan Williams / Pace	8/16/23	1115		8/16/23	1115	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg).							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chest

SIGNATURE of SAMPLER: [signature] DATE Signed: 8/16/23

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Off Power

Project #:

WO#: 92683124

PM: BV **Due Date: 08/30/23**

CLIENT: 92-GP-Yates

Courier: ☐ Commercial ☑ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other: ☐ Client

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 8/16/23 DM

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: 2.3 **Correction Factor:** Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.3

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

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# : 92683124**

PM: BV **Due Date: 08/30/23**

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)	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)	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)
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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.

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Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S2	Address:	
Email To:	lgucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:	Standard	Project Number:		Pace Profile #:	10840

Regulatory Agency: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals + Cl, NO3, F	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	926831Z4
1	YAT-YGWA-47	WG	G			--	--		6	2		4							X	X	X	X			
2	YAT-GWA-2	WG	G	8/15/23	1020	--	--		6	2		4							X	X	X	X	X			-012
3	YAT-YGWA-4I	WG	G			--	--		6	2		4							X	X	X	X				
4	YAT-YGWA-5I	WG	G			--	--		6	2		4							X	X	X	X				
5	YAT-YGWA-5D	WG	G			--	--		6	2		4							X	X	X	X				
6	YAT-YGWA-17S	WG	G			--	--		6	2		4							X	X	X	X				
7	YAT-YGWA-18S	WG	G			--	--		6	2		4							X	X	X	X				
8	YAT-YGWA-18I	WG	G			--	--		6	2		4							X	X	X	X				
9	YAT-YGWA-20S	WG	G			--	--		6	2		4							X	X	X	X				
10	YAT-YGWA-21I	WG	G			--	--		6	2		4							X	X	X	X				
11	YAT-YGWA-30I	WG	G			--	--		6	2		4							X	X	X	X				
12	YAT-YGWA-14S	WG	G			--	--		6	2		4							X	X	X	X				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/16/23	0900		8/16/23	0800	
App III Metals: Boron 6020B, Ca 6010D; App III 6020B: Zn, Ag, Ni, V		8/16/23	0907		8/16/23	0907	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg).		8/16/23	1115		8/16/23	1115	

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Jake Swanson					
SIGNATURE of SAMPLER:		DATE Signed: 8/15/23				

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: WO#: 92683124

PM: BV Due Date: 08/30/23

CLIENT: 92-GP-Yates

Courier: ☐ Commercial ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 8/16/23 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: 2.3 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.3

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

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#: 92683124**

PM: BV Due Date: 08/30/23

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)	DG8U-40 mL Amber Unpreserved vials (N/A)
1		1	1			2																			2				
2		1	1			2																			2				
3		1	1			2																			2				
4		1	1			2																			2				
5		1	1			2																			2				
6																													
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12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S2	Address:	
Email To:	jaucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	~~Nicole DiCicco~~ Brian Jang
Requested Due Date:	Standard	Project Number:		Pace Profile #:	10840

Regulatory Agency: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Sb+Ba+Be	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	92683124
1	YAT-YGWA-47	WG	G			--	--		6	2		4							X	X	X	X			
2	YAT-GWA-2	WG	G			--	--		6	2		4							X	X	X	X	X		
3	YAT-YGWA-4I	WG	G			--	--		6	2		4							X	X	X	X			
4	YAT-YGWA-5I	WG	G			--	--		6	2		4							X	X	X	X			
5	YAT-YGWA-5D	WG	G			--	--		6	2		4							X	X	X	X			
6	YAT-YGWA-17S	WG	G	8/15	1450	--	--		6	2		4							X	X	X	X			013
7	YAT-YGWA-18S	WG	G			--	--		6	2		4							X	X	X	X			
8	YAT-YGWA-18I	WG	G			--	--		6	2		4							X	X	X	X			
9	YAT-YGWA-20S	WG	G	8/15	1225	--	--		6	2		4							X	X	X	X			014
10	YAT-YGWA-21I	WG	G	8/15	1035	--	--		6	2		4							X	X	X	X			015
11	YAT-YGWA-30I	WG	G			--	--		6	2		4							X	X	X	X			
12	YAT-YGWA-14S	WG	G			--	--		6	2		4							X	X	X	X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/15/23	1805	/Arcadis	8/15/23	1805	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	Arcadis	8/16/23	0907	Ryan Williams/Pace	8/16/23	0907	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg).	Ryan Williams/Pace	8/16/23	1115		8/16/23	1115	

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Jessica Ware					
SIGNATURE of SAMPLER:		DATE Signed: 8/15/23				

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 2 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-202392	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	~~Nicole D'Olso~~ Barnis
Requested Due Date:	Standard	Project Number:		Pace Profile #:	10840

Regulatory Agency: State / Location: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals-Sec/NEK	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	92683124
1	YAT-YGWA-39	WG	G	8/15	1611	–	–		6	2		4							X	X	X	X			016
2	YAT-YGWA-40	WG	G	8/15	1720	–	–		6	2		4							X	X	X	X			017
3	YAT-YGWA-1I	WG	G			–	–		6	2		4							X	X	X	X			
4	YAT-YGWA-1D	WG	G			–	–		6	2		4							X	X	X	X			
5	YAT-YGWA-2I	WG	G			–	–		6	2		4							X	X	X	X			
6	YAT-YGWA-3I	WG	G			–	–		6	2		4							X	X	X	X			
7	YAT-YGWA-3D	WG	G			–	–		6	2		4							X	X	X	X			
8						–	–																		
9						–	–																		
10						–	–																		
11						–	–																		
12						–	–																		

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/15/23	1805	/Arcadis	8/15/23	1805	
App III Metals: Boron 6020B, Ca 6010D; App IV 6020B: Zn, Ag, Ni, V	/Arcadis	8/16/23	0907	Ryan Williams / Pace	8/16/23	0907	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se); 7040A: Mercury (Hg)	Ryan Williams / Pace	8/16/23	1115		8/16/23	1115	

SAMPLER NAME AND SIGNATURE							
PRINT Name of SAMPLER:	(Arcadis) Jessica Ware						
SIGNATURE of SAMPLER:	(Arcadis)	DATE Signed:	8/15/23	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt
	Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Tamaqua ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO#: 92683124

PM: BV Due Date: 08/30/23

CLIENT: 92-GP-Yates

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other:____ ☑ Client

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No

Date/Initials Person Examining Contents: 2-17-23 AY

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: 5.7 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 5.7

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☑ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☑ Yes	☐ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8.
Sample Labels Match COC? -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:

WO#: 92683124

Project #

PM: BV Due Date: 08/30/23

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)	SPST-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		—	—	2		2																							
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-202392	Address:	
Email To:	tauppken@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	~~Nicole D'Otto~~ Bonnie Young
Requested Due Date:	Standard	Project Number:		Pace Profile #:	~~10840~~

Compliance Project Yes / No: Yes — Regulatory Agency: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / III (gypsum only)	Residual Chlorine (Y/N)	926831Z4
	YAT-YGWA-4I	WG	G			–	–		6	2		4						X	X	X	X	X		
	YAT-GWA-2	WG	G			–	–		6	2		4						X	X	X	X	X		
	YAT-YGWA-4I	WG	G			–	–		6	2		4						X	X	X	X			
	YAT-YGWA-5I	WG	G			–	–		6	2		4						X	X	X	X			
	YAT-YGWA-5D	WG	G			–	–		6	2		4						X	X	X	X			
	YAT-YGWA-17S	WG	G			–	–		6	2		4						X	X	X	X			
	YAT-YGWA-18S	WG	G			–	–		6	2		4						X	X	X	X			
	YAT-YGWA-18I	WG	G			–	–		6	2		4						X	X	X	X			
	YAT-YGWA-20S	WG	G			–	–		6	2		4						X	X	X	X			
101	YAT-YGWA-21I	WG	G			–	–		6	2		4						X	X	X	X			
	YAT-YGWA-30I	WG	G	8/14/23	1220	–	–		6	2		4						X	X	X	X			018
	YAT-YGWA-14S	WG	G			–	–		6	2		4						X	X	X	X			

Anions Suite 300.0 (Cl, F, Sulfate)	Kevin Pierce /Arcadis	8/17/23	0833	Michael Tarara	8/17/23	0825		
App III Metals: Boron 6020B, Ca 6010D; App IV 6020B: Zn, Ag, Ni, V	Bonnie Young /Arcadis	8/17/23		Ryan William /Pace	8/17/23	0955		
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan William /Pace	8/17/23	1254		8-17	1254		

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: David Franz

SIGNATURE of SAMPLER: David Franz — DATE Signed: 8/16/23

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ [illegible] ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO#: 92683124**

PM: BV Due Date: 08/30/23

CLIENT: 92-GP-Yates

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Pace ☐ Other: ☑ Client

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No

Date/Initials Person Examining Contents: 8-17-23 AY

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: 5.7 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 5.7

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☑ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☑ Yes	☐ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8.
Sample Labels Match COC? -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:

Quality ID: 00011

***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#: 92683124**

PM: BV Due Date: 08/30/23

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		1	1	2		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.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-202382	Address:	
Email To:	jauopker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole DiGiae
Requested Due Date:	Standard	Project Number:		Pace Profile #:	10840

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App III/IV Metals +Ca+Mg+K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)
	YAT-YGWA-39	WG	G			--	--		6	2		4						X	X	X	X		
	YAT-YGWA-40	WG	G			--	--		6	2		4						X	X	X	X		
	YAT-YGWA-1I	WG	G			--	--		6	2		4						X	X	X	X		
	YAT-YGWA-1D	WG	G			--	--		6	2		4						X	X	X	X		
	YAT-YGWA-2I	WG	G			--	--		6	2		4						X	X	X	X		
	YAT-YGWA-3I	WG	G	8/16/23	1050	--	--		6	2		4						X	X	X	X		009
	YAT-YGWA-3D	WG	G			--	--		6	2		4						X	X	X	X		
						--	--																
						--	--																
						--	--																
						--	--																
						--	--																

Residual Chlorine (Y/N): 92683124

Anions Suite 300.0 (Cl, F, Sulfate)		Arcadis	8/17/23	0833		8/17/23	0832
App III Metals: Boron 6020B, Ca 6010D; App III 6020B: Zn, Ag, Ni, V			8/17/23			8/17/23	0955
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)			8/17/23	1254		8/17/23	1254

PRINT Name of SAMPLER:	(Arcadis) David Brady	DATE Signed:	8/16/23	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)		
SIGNATURE of SAMPLER:	(Arcadis)								

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

September 14, 2023

Lauren Hartley
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: Plant Yates Pooled Upgra- RADs
Pace Project No.: 92683132

Dear Lauren Hartley:

Enclosed are the analytical results for sample(s) received by the laboratory between August 16, 2023 and August 17, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Geoffrey Gay, Arcadis-ATL
Laura Midkiff, Southern Company
Alex Simpson, Arcadis
Becky Steever, Arcadis
Jessica Ware, Arcadis
Albert Zumbuhl, Arcadis

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CERTIFICATIONS

Project: Plant Yates Pooled Upgra- RADs
Pace Project No.: 92683132

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: Plant Yates Pooled Upgra- RADs
Pace Project No.: 92683132

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92683132001	**YAT-YGWA-1I**	Water	08/15/23 13:45	08/16/23 09:07
92683132002	**YAT-YGWA-1D**	Water	08/15/23 11:20	08/16/23 09:07
92683132003	**YAT-YGWA-2I**	Water	08/15/23 15:45	08/16/23 09:07
92683132004	**YAT-YGWA-3D**	Water	08/15/23 17:10	08/16/23 09:07
92683132005	**YAT-YGWA-4I**	Water	08/15/23 12:25	08/16/23 09:07
92683132006	**YAT-YGWA-5I**	Water	08/15/23 10:20	08/16/23 09:07
92683132007	**YAT-YGWA-5D**	Water	08/15/23 11:13	08/16/23 09:07
92683132008	**YAT-YGWA-18S**	Water	08/15/23 11:35	08/16/23 09:07
92683132009	**YAT-YGWA-18I**	Water	08/15/23 15:40	08/16/23 09:07
92683132010	**YAT-YGWA-14S**	Water	08/15/23 17:30	08/16/23 09:07
92683132011	**YAT-YGWA-47**	Water	08/15/23 09:43	08/16/23 09:07
92683132012	**YAT-GWA-2**	Water	08/15/23 10:20	08/16/23 09:07
92683132013	**YAT-YGWA-17S**	Water	08/15/23 14:50	08/16/23 09:07
92683132014	**YAT-YGWA-20S**	Water	08/15/23 12:25	08/16/23 09:07
92683132015	**YAT-YGWA-21I**	Water	08/15/23 10:35	08/16/23 09:07
92683132016	**YAT-YGWA-39**	Water	08/15/23 16:11	08/16/23 09:07
92683132017	**YAT-YGWA-40**	Water	08/15/23 17:20	08/16/23 09:07
92683132018	**YAT-YGWA-30I**	Water	08/16/23 12:20	08/17/23 09:55
92683132019	**YAT-YGWA-3I**	Water	08/16/23 10:50	08/17/23 09:55

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SAMPLE ANALYTE COUNT

Project: Plant Yates Pooled Upgra- RADs
Pace Project No.: 92683132

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92683132001	**YAT-YGWA-1I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92683132002	**YAT-YGWA-1D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92683132003	**YAT-YGWA-2I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92683132004	**YAT-YGWA-3D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92683132005	**YAT-YGWA-4I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92683132006	**YAT-YGWA-5I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92683132007	**YAT-YGWA-5D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92683132008	**YAT-YGWA-18S**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92683132009	**YAT-YGWA-18I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92683132010	**YAT-YGWA-14S**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92683132011	**YAT-YGWA-47**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92683132012	**YAT-GWA-2**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92683132013	**YAT-YGWA-17S**	EPA 9315	SLC	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: Plant Yates Pooled Upgra- RADs
Pace Project No.: 92683132

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92683132014	**YAT-YGWA-20S**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92683132015	**YAT-YGWA-21I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92683132016	**YAT-YGWA-39**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92683132017	**YAT-YGWA-40**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92683132018	**YAT-YGWA-30I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92683132019	**YAT-YGWA-3I**	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

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SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgra- RADs
Pace Project No.: 92683132

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92683132001	**YAT-YGWA-1I**					
EPA 9315	Radium-226	0.150U ± 0.130 (0.239) C:91% T:NA	pCi/L		09/08/23 13:11	
EPA 9320	Radium-228	0.576U ± 0.415 (0.817) C:80% T:89%	pCi/L		09/06/23 12:41	
Total Radium Calculation	Total Radium	0.726U ± 0.545 (1.06)	pCi/L		09/08/23 17:29	
92683132002	**YAT-YGWA-1D**					
EPA 9315	Radium-226	0.273U ± 0.177 (0.294) C:87% T:NA	pCi/L		09/08/23 13:11	
EPA 9320	Radium-228	0.662U ± 0.411 (0.782) C:82% T:95%	pCi/L		09/06/23 15:49	
Total Radium Calculation	Total Radium	0.935U ± 0.588 (1.08)	pCi/L		09/08/23 17:29	
92683132003	**YAT-YGWA-2I**					
EPA 9315	Radium-226	0.355 ± 0.194 (0.299) C:86% T:NA	pCi/L		09/08/23 13:11	
EPA 9320	Radium-228	0.256U ± 0.340 (0.726) C:85% T:87%	pCi/L		09/06/23 15:49	
Total Radium Calculation	Total Radium	0.611U ± 0.534 (1.03)	pCi/L		09/08/23 17:29	
92683132004	**YAT-YGWA-3D**					
EPA 9315	Radium-226	1.27 ± 0.349 (0.256) C:83% T:NA	pCi/L		09/08/23 13:11	
EPA 9320	Radium-228	1.52 ± 0.529 (0.765) C:83% T:87%	pCi/L		09/06/23 15:49	
Total Radium Calculation	Total Radium	2.79 ± 0.878 (1.02)	pCi/L		09/08/23 17:29	

REPORT OF LABORATORY ANALYSIS

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(704)875-9092

SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgra- RADs
Pace Project No.: 92683132

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92683132005	**YAT-YGWA-4I**					
EPA 9315	Radium-226	0.684 ± 0.241 (0.237) C:89% T:NA	pCi/L		09/08/23 13:12	
EPA 9320	Radium-228	0.456U ± 0.389 (0.790) C:86% T:88%	pCi/L		09/06/23 15:49	
Total Radium Calculation	Total Radium	1.14 ± 0.630 (1.03)	pCi/L		09/08/23 17:29	
92683132006	**YAT-YGWA-5I**					
EPA 9315	Radium-226	0.0709U ± 0.127 (0.288) C:79% T:NA	pCi/L		09/08/23 13:12	
EPA 9320	Radium-228	0.775 ± 0.405 (0.729) C:85% T:94%	pCi/L		09/06/23 15:49	
Total Radium Calculation	Total Radium	0.846U ± 0.532 (1.02)	pCi/L		09/08/23 17:29	
92683132007	**YAT-YGWA-5D**					
EPA 9315	Radium-226	2.44 ± 0.525 (0.265) C:85% T:NA	pCi/L		09/08/23 13:12	
EPA 9320	Radium-228	0.995 ± 0.414 (0.664) C:83% T:93%	pCi/L		09/06/23 15:49	
Total Radium Calculation	Total Radium	3.44 ± 0.939 (0.929)	pCi/L		09/08/23 17:29	
92683132008	**YAT-YGWA-18S**					
EPA 9315	Radium-226	-0.00970U ± 0.121 (0.326) C:84% T:NA	pCi/L		09/08/23 13:12	
EPA 9320	Radium-228	0.347U ± 0.345 (0.713) C:84% T:92%	pCi/L		09/06/23 15:49	
Total Radium Calculation	Total Radium	0.347U ± 0.466 (1.04)	pCi/L		09/08/23 17:29	

REPORT OF LABORATORY ANALYSIS

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(704)875-9092

SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgra- RADs
Pace Project No.: 92683132

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92683132009	**YAT-YGWA-18I**					
EPA 9315	Radium-226	0.108U ± 0.121 (0.245) C:93% T:NA	pCi/L		09/08/23 13:12	
EPA 9320	Radium-228	0.547U ± 0.432 (0.862) C:78% T:87%	pCi/L		09/06/23 15:49	
Total Radium Calculation	Total Radium	0.655U ± 0.553 (1.11)	pCi/L		09/08/23 17:29	
92683132010	**YAT-YGWA-14S**					
EPA 9315	Radium-226	0.0870U ± 0.121 (0.259) C:82% T:NA	pCi/L		09/08/23 13:12	
EPA 9320	Radium-228	0.565U ± 0.353 (0.665) C:84% T:95%	pCi/L		09/06/23 15:50	
Total Radium Calculation	Total Radium	0.652U ± 0.474 (0.924)	pCi/L		09/08/23 17:29	
92683132011	**YAT-YGWA-47**					
EPA 9315	Radium-226	0.502 ± 0.236 (0.326) C:73% T:NA	pCi/L		09/08/23 13:08	
EPA 9320	Radium-228	0.445U ± 0.356 (0.711) C:85% T:89%	pCi/L		09/06/23 15:50	
Total Radium Calculation	Total Radium	0.947U ± 0.592 (1.04)	pCi/L		09/08/23 17:29	
92683132012	**YAT-GWA-2**					
EPA 9315	Radium-226	0.230U ± 0.166 (0.285) C:77% T:NA	pCi/L		09/08/23 13:09	
EPA 9320	Radium-228	0.603U ± 0.352 (0.631) C:85% T:82%	pCi/L		09/06/23 15:46	
Total Radium Calculation	Total Radium	0.833U ± 0.518 (0.916)	pCi/L		09/08/23 17:29	

REPORT OF LABORATORY ANALYSIS

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(704)875-9092

SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgra- RADs
Pace Project No.: 92683132

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92683132013	**YAT-YGWA-17S**					
EPA 9315	Radium-226	-0.125U ± 0.202 (0.646) C:89% T:NA	pCi/L		09/12/23 18:20	
EPA 9320	Radium-228	0.0388U ± 0.250 (0.579) C:84% T:90%	pCi/L		09/06/23 15:47	
Total Radium Calculation	Total Radium	0.0388U ± 0.452 (1.23)	pCi/L		09/13/23 14:27	
92683132014	**YAT-YGWA-20S**					
EPA 9315	Radium-226	0.0694U ± 0.199 (0.482) C:94% T:NA	pCi/L		09/13/23 08:26	
EPA 9320	Radium-228	0.0952U ± 0.357 (0.807) C:80% T:89%	pCi/L		09/06/23 15:47	
Total Radium Calculation	Total Radium	0.165U ± 0.556 (1.29)	pCi/L		09/13/23 14:27	
92683132015	**YAT-YGWA-21I**					
EPA 9315	Radium-226	0.608 ± 0.351 (0.537) C:86% T:NA	pCi/L		09/13/23 08:28	
EPA 9320	Radium-228	1.07 ± 0.492 (0.853) C:84% T:88%	pCi/L		09/06/23 15:47	
Total Radium Calculation	Total Radium	1.68 ± 0.843 (1.39)	pCi/L		09/13/23 14:27	
92683132016	**YAT-YGWA-39**					
EPA 9315	Radium-226	0.441U ± 0.299 (0.494) C:90% T:NA	pCi/L		09/13/23 10:02	
EPA 9320	Radium-228	0.167U ± 0.308 (0.676) C:85% T:92%	pCi/L		09/06/23 15:48	
Total Radium Calculation	Total Radium	0.608U ± 0.607 (1.17)	pCi/L		09/13/23 14:27	

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SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgra- RADs
Pace Project No.: 92683132

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92683132017	**YAT-YGWA-40**					
EPA 9315	Radium-226	0.325U ± 0.300 (0.580) C:84% T:NA	pCi/L		09/13/23 10:02	
EPA 9320	Radium-228	-0.0884U ± 0.244 (0.597) C:86% T:91%	pCi/L		09/06/23 15:48	
Total Radium Calculation	Total Radium	0.325U ± 0.544 (1.18)	pCi/L		09/13/23 14:27	
92683132018	**YAT-YGWA-30I**					
EPA 9315	Radium-226	0.218U ± 0.283 (0.590) C:86% T:NA	pCi/L		09/13/23 13:31	
EPA 9320	Radium-228	0.677U ± 0.409 (0.777) C:82% T:91%	pCi/L		09/08/23 11:52	
Total Radium Calculation	Total Radium	0.895U ± 0.692 (1.37)	pCi/L		09/13/23 15:34	
92683132019	**YAT-YGWA-3I**					
EPA 9315	Radium-226	1.00 ± 0.537 (0.830) C:82% T:NA	pCi/L		09/13/23 13:31	
EPA 9320	Radium-228	0.868 ± 0.395 (0.664) C:85% T:87%	pCi/L		09/08/23 11:52	
Total Radium Calculation	Total Radium	1.87 ± 0.932 (1.49)	pCi/L		09/13/23 15:34	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgra- RADs
Pace Project No.: 92683132

Sample: YAT-YGWA-1I **Lab ID: 92683132001** Collected: 08/15/23 13:45 Received: 08/16/23 09:07 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	**0.150U ± 0.130 (0.239) C:91% T:NA**	pCi/L	09/08/23 13:11	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.576U ± 0.415 (0.817) C:80% T:89%**	pCi/L	09/06/23 12:41	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.726U ± 0.545 (1.06)**	pCi/L	09/08/23 17:29	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgra- RADs
Pace Project No.: 92683132

Sample: YAT-YGWA-1D **Lab ID: 92683132002** Collected: 08/15/23 11:20 Received: 08/16/23 09:07 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	**0.273U ± 0.177 (0.294) C:87% T:NA**	pCi/L	09/08/23 13:11	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.662U ± 0.411 (0.782) C:82% T:95%**	pCi/L	09/06/23 15:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.935U ± 0.588 (1.08)**	pCi/L	09/08/23 17:29	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgra- RADs
Pace Project No.: 92683132

Sample: YAT-YGWA-2I **Lab ID: 92683132003** Collected: 08/15/23 15:45 Received: 08/16/23 09:07 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	**0.355 ± 0.194 (0.299) C:86% T:NA**	pCi/L	09/08/23 13:11	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.256U ± 0.340 (0.726) C:85% T:87%**	pCi/L	09/06/23 15:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.611U ± 0.534 (1.03)**	pCi/L	09/08/23 17:29	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgra- RADs
Pace Project No.: 92683132

Sample: YAT-YGWA-3D **Lab ID: 92683132004** Collected: 08/15/23 17:10 Received: 08/16/23 09:07 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	**1.27 ± 0.349 (0.256) C:83% T:NA**	pCi/L	09/08/23 13:11	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.52 ± 0.529 (0.765) C:83% T:87%**	pCi/L	09/06/23 15:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.79 ± 0.878 (1.02)**	pCi/L	09/08/23 17:29	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgra- RADs
Pace Project No.: 92683132

Sample: YAT-YGWA-4I **Lab ID: 92683132005** Collected: 08/15/23 12:25 Received: 08/16/23 09:07 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	**0.684 ± 0.241 (0.237) C:89% T:NA**	pCi/L	09/08/23 13:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.456U ± 0.389 (0.790) C:86% T:88%**	pCi/L	09/06/23 15:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.14 ± 0.630 (1.03)**	pCi/L	09/08/23 17:29	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgra- RADs
Pace Project No.: 92683132

Sample: YAT-YGWA-5I **Lab ID: 92683132006** Collected: 08/15/23 10:20 Received: 08/16/23 09:07 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	**0.0709U ± 0.127 (0.288) C:79% T:NA**	pCi/L	09/08/23 13:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.775 ± 0.405 (0.729) C:85% T:94%**	pCi/L	09/06/23 15:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.846U ± 0.532 (1.02)**	pCi/L	09/08/23 17:29	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgra- RADs
Pace Project No.: 92683132

Sample: YAT-YGWA-5D **Lab ID: 92683132007** Collected: 08/15/23 11:13 Received: 08/16/23 09:07 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	**2.44 ± 0.525 (0.265) C:85% T:NA**	pCi/L	09/08/23 13:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.995 ± 0.414 (0.664) C:83% T:93%**	pCi/L	09/06/23 15:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**3.44 ± 0.939 (0.929)**	pCi/L	09/08/23 17:29	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgra- RADs
Pace Project No.: 92683132

Sample: YAT-YGWA-18S **Lab ID: 92683132008** Collected: 08/15/23 11:35 Received: 08/16/23 09:07 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	**-0.00970U ± 0.121 (0.326) C:84% T:NA**	pCi/L	09/08/23 13:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.347U ± 0.345 (0.713) C:84% T:92%**	pCi/L	09/06/23 15:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.347U ± 0.466 (1.04)**	pCi/L	09/08/23 17:29	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgra- RADs
Pace Project No.: 92683132

Sample: YAT-YGWA-18I **Lab ID: 92683132009** Collected: 08/15/23 15:40 Received: 08/16/23 09:07 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	**0.108U ± 0.121 (0.245) C:93% T:NA**	pCi/L	09/08/23 13:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.547U ± 0.432 (0.862) C:78% T:87%**	pCi/L	09/06/23 15:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.655U ± 0.553 (1.11)**	pCi/L	09/08/23 17:29	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgra- RADs
Pace Project No.: 92683132

Sample: YAT-YGWA-14S **Lab ID: 92683132010** Collected: 08/15/23 17:30 Received: 08/16/23 09:07 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	**0.0870U ± 0.121 (0.259) C:82% T:NA**	pCi/L	09/08/23 13:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.565U ± 0.353 (0.665) C:84% T:95%**	pCi/L	09/06/23 15:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.652U ± 0.474 (0.924)**	pCi/L	09/08/23 17:29	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgra- RADs
Pace Project No.: 92683132

Sample: YAT-YGWA-47 **Lab ID: 92683132011** Collected: 08/15/23 09:43 Received: 08/16/23 09:07 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	**0.502 ± 0.236 (0.326) C:73% T:NA**	pCi/L	09/08/23 13:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.445U ± 0.356 (0.711) C:85% T:89%**	pCi/L	09/06/23 15:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.947U ± 0.592 (1.04)**	pCi/L	09/08/23 17:29	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgra- RADs
Pace Project No.: 92683132

Sample: YAT-GWA-2 **Lab ID: 92683132012** Collected: 08/15/23 10:20 Received: 08/16/23 09:07 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	**0.230U ± 0.166 (0.285) C:77% T:NA**	pCi/L	09/08/23 13:09	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.603U ± 0.352 (0.631) C:85% T:82%**	pCi/L	09/06/23 15:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.833U ± 0.518 (0.916)**	pCi/L	09/08/23 17:29	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgra- RADs
Pace Project No.: 92683132

Sample: YAT-YGWA-17S **Lab ID: 92683132013** Collected: 08/15/23 14:50 Received: 08/16/23 09:07 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	**-0.125U ± 0.202 (0.646) C:89% T:NA**	pCi/L	09/12/23 18:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0388U ± 0.250 (0.579) C:84% T:90%**	pCi/L	09/06/23 15:47	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.0388U ± 0.452 (1.23)**	pCi/L	09/13/23 14:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgra- RADs
Pace Project No.: 92683132

Sample: YAT-YGWA-20S **Lab ID: 92683132014** Collected: 08/15/23 12:25 Received: 08/16/23 09:07 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	**0.0694U ± 0.199 (0.482) C:94% T:NA**	pCi/L	09/13/23 08:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0952U ± 0.357 (0.807) C:80% T:89%**	pCi/L	09/06/23 15:47	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.165U ± 0.556 (1.29)**	pCi/L	09/13/23 14:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgra- RADs
Pace Project No.: 92683132

Sample: YAT-YGWA-21I **Lab ID: 92683132015** Collected: 08/15/23 10:35 Received: 08/16/23 09:07 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	**0.608 ± 0.351 (0.537) C:86% T:NA**	pCi/L	09/13/23 08:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.07 ± 0.492 (0.853) C:84% T:88%**	pCi/L	09/06/23 15:47	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.68 ± 0.843 (1.39)**	pCi/L	09/13/23 14:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgra- RADs
Pace Project No.: 92683132

Sample: YAT-YGWA-39 **Lab ID: 92683132016** Collected: 08/15/23 16:11 Received: 08/16/23 09:07 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	**0.441U ± 0.299 (0.494) C:90% T:NA**	pCi/L	09/13/23 10:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.167U ± 0.308 (0.676) C:85% T:92%**	pCi/L	09/06/23 15:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.608U ± 0.607 (1.17)**	pCi/L	09/13/23 14:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgra- RADs
Pace Project No.: 92683132

Sample: YAT-YGWA-40 **Lab ID: 92683132017** Collected: 08/15/23 17:20 Received: 08/16/23 09:07 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	**0.325U ± 0.300 (0.580) C:84% T:NA**	pCi/L	09/13/23 10:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.0884U ± 0.244 (0.597) C:86% T:91%**	pCi/L	09/06/23 15:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.325U ± 0.544 (1.18)**	pCi/L	09/13/23 14:27	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgra- RADs
Pace Project No.: 92683132

Sample: YAT-YGWA-30I **Lab ID: 92683132018** Collected: 08/16/23 12:20 Received: 08/17/23 09:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.218U ± 0.283 (0.590) C:86% T:NA**	pCi/L	09/13/23 13:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.677U ± 0.409 (0.777) C:82% T:91%**	pCi/L	09/08/23 11:52	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.895U ± 0.692 (1.37)**	pCi/L	09/13/23 15:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgra- RADs
Pace Project No.: 92683132

Sample: YAT-YGWA-3I **Lab ID: 92683132019** Collected: 08/16/23 10:50 Received: 08/17/23 09:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**1.00 ± 0.537 (0.830) C:82% T:NA**	pCi/L	09/13/23 13:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.868 ± 0.395 (0.664) C:85% T:87%**	pCi/L	09/08/23 11:52	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.87 ± 0.932 (1.49)**	pCi/L	09/13/23 15:34	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgra- RADs
Pace Project No.: 92683132

QC Batch: 611649
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92683132001, 92683132002, 92683132003, 92683132004, 92683132005, 92683132006, 92683132007, 92683132008, 92683132009, 92683132010, 92683132011, 92683132012

METHOD BLANK: 2977146
Matrix: Water
Associated Lab Samples: 92683132001, 92683132002, 92683132003, 92683132004, 92683132005, 92683132006, 92683132007, 92683132008, 92683132009, 92683132010, 92683132011, 92683132012

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.101 ± 0.125 (0.261) C:93% T:NA	pCi/L	09/08/23 11:33	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgra- RADs
Pace Project No.: 92683132

QC Batch: 611584
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92683132001, 92683132002, 92683132003, 92683132004, 92683132005, 92683132006, 92683132007, 92683132008, 92683132009

METHOD BLANK: 2976835 Matrix: Water
Associated Lab Samples: 92683132001, 92683132002, 92683132003, 92683132004, 92683132005, 92683132006, 92683132007, 92683132008, 92683132009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.100 ± 0.312 (0.703) C:75% T:95%	pCi/L	09/06/23 12:40	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgra- RADs
Pace Project No.: 92683132

QC Batch: 611586
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92683132010, 92683132011, 92683132012, 92683132013, 92683132014, 92683132015, 92683132016, 92683132017

METHOD BLANK: 2976847 Matrix: Water
Associated Lab Samples: 92683132010, 92683132011, 92683132012, 92683132013, 92683132014, 92683132015, 92683132016, 92683132017

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.830 ± 0.342 (0.491) C:81% T:89%	pCi/L	09/06/23 15:45	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgra- RADs
Pace Project No.: 92683132

QC Batch: 612656
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92683132018, 92683132019

METHOD BLANK: 2982190 Matrix: Water
Associated Lab Samples: 92683132018, 92683132019

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.438 ± 0.430 (0.847) C:79% T:NA	pCi/L	09/13/23 13:30	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgra- RADs
Pace Project No.: 92683132

QC Batch:	612651	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92683132013, 92683132014, 92683132015, 92683132016, 92683132017

METHOD BLANK: 2982186 Matrix: Water

Associated Lab Samples: 92683132013, 92683132014, 92683132015, 92683132016, 92683132017

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.199 ± 0.286 (0.622) C:88% T:NA	pCi/L	09/12/23 18:19	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgra- RADs
Pace Project No.: 92683132

QC Batch: 611590
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92683132018, 92683132019

METHOD BLANK: 2976857 Matrix: Water
Associated Lab Samples: 92683132018, 92683132019

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.0613 ± 0.274 (0.661) C:83% T:83%	pCi/L	09/08/23 11:54	

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QUALIFIERS

Project: Plant Yates Pooled Upgra- RADs
Pace Project No.: 92683132

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Pooled Upgra- RADs
Pace Project No.: 92683132

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92683132001	**YAT-YGWA-1I**	EPA 9315	611649		
92683132002	**YAT-YGWA-1D**	EPA 9315	611649		
92683132003	**YAT-YGWA-2I**	EPA 9315	611649		
92683132004	**YAT-YGWA-3D**	EPA 9315	611649		
92683132005	**YAT-YGWA-4I**	EPA 9315	611649		
92683132006	**YAT-YGWA-5I**	EPA 9315	611649		
92683132007	**YAT-YGWA-5D**	EPA 9315	611649		
92683132008	**YAT-YGWA-18S**	EPA 9315	611649		
92683132009	**YAT-YGWA-18I**	EPA 9315	611649		
92683132010	**YAT-YGWA-14S**	EPA 9315	611649		
92683132011	**YAT-YGWA-47**	EPA 9315	611649		
92683132012	**YAT-GWA-2**	EPA 9315	611649		
92683132013	**YAT-YGWA-17S**	EPA 9315	612651		
92683132014	**YAT-YGWA-20S**	EPA 9315	612651		
92683132015	**YAT-YGWA-21I**	EPA 9315	612651		
92683132016	**YAT-YGWA-39**	EPA 9315	612651		
92683132017	**YAT-YGWA-40**	EPA 9315	612651		
92683132018	**YAT-YGWA-30I**	EPA 9315	612656		
92683132019	**YAT-YGWA-3I**	EPA 9315	612656		
92683132001	**YAT-YGWA-1I**	EPA 9320	611584		
92683132002	**YAT-YGWA-1D**	EPA 9320	611584		
92683132003	**YAT-YGWA-2I**	EPA 9320	611584		
92683132004	**YAT-YGWA-3D**	EPA 9320	611584		
92683132005	**YAT-YGWA-4I**	EPA 9320	611584		
92683132006	**YAT-YGWA-5I**	EPA 9320	611584		
92683132007	**YAT-YGWA-5D**	EPA 9320	611584		
92683132008	**YAT-YGWA-18S**	EPA 9320	611584		
92683132009	**YAT-YGWA-18I**	EPA 9320	611584		
92683132010	**YAT-YGWA-14S**	EPA 9320	611586		
92683132011	**YAT-YGWA-47**	EPA 9320	611586		
92683132012	**YAT-GWA-2**	EPA 9320	611586		
92683132013	**YAT-YGWA-17S**	EPA 9320	611586		
92683132014	**YAT-YGWA-20S**	EPA 9320	611586		
92683132015	**YAT-YGWA-21I**	EPA 9320	611586		
92683132016	**YAT-YGWA-39**	EPA 9320	611586		
92683132017	**YAT-YGWA-40**	EPA 9320	611586		
92683132018	**YAT-YGWA-30I**	EPA 9320	611590		
92683132019	**YAT-YGWA-3I**	EPA 9320	611590		
92683132001	**YAT-YGWA-1I**	Total Radium Calculation	614334		
92683132002	**YAT-YGWA-1D**	Total Radium Calculation	614334		
92683132003	**YAT-YGWA-2I**	Total Radium Calculation	614334		
92683132004	**YAT-YGWA-3D**	Total Radium Calculation	614334		
92683132005	**YAT-YGWA-4I**	Total Radium Calculation	614334		
92683132006	**YAT-YGWA-5I**	Total Radium Calculation	614334		
92683132007	**YAT-YGWA-5D**	Total Radium Calculation	614334		
92683132008	**YAT-YGWA-18S**	Total Radium Calculation	614334		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Pooled Upgra- RADs
Pace Project No.: 92683132

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92683132009	**YAT-YGWA-18I**	Total Radium Calculation	614334		
92683132010	**YAT-YGWA-14S**	Total Radium Calculation	614334		
92683132011	**YAT-YGWA-47**	Total Radium Calculation	614334		
92683132012	**YAT-GWA-2**	Total Radium Calculation	614334		
92683132013	**YAT-YGWA-17S**	Total Radium Calculation	615223		
92683132014	**YAT-YGWA-20S**	Total Radium Calculation	615223		
92683132015	**YAT-YGWA-21I**	Total Radium Calculation	615223		
92683132016	**YAT-YGWA-39**	Total Radium Calculation	615223		
92683132017	**YAT-YGWA-40**	Total Radium Calculation	615223		
92683132018	**YAT-YGWA-30I**	Total Radium Calculation	615249		
92683132019	**YAT-YGWA-3I**	Total Radium Calculation	615249		

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Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Gft Power

Project #: WO# : 92683132

92683132

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other: ☐ Client

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 8/14/23 CMH

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: 2.3 **Correction Factor:** Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 2.3

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#: 92683132**

PM: BV Due Date: 09/07/23

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)	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)	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		1	1			2																			2				
2		1	1			2																			2				
3		1	1			2																			2				
4		1	1			2																			2				
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	aucoker@southernco.com
Phone:	470.620.6176 Fax:
Requested Due Date:	Standard

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Task No:	YAT-CCR-ASSMT-2023S2
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C — Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	~~Nicole D'Olio~~ Bonnie Lamb
Pace Profile #:	10840

Regulatory Agency: Georgia

Requested Analysis Filtered (Y/N)

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App III (gypsum only)	Residual Chlorine (Y/N)	
1	YAT-YGWA-39	WG	G			--	--		6	2		4							X	X	X	X			001
2	YAT-YGWA-40	WG	G			--	--		6	2		4							X	X	X	X			002
3	YAT-YGWA-1I	WG	G	8/15/23	1345	--	--		6	2		4							X	X	X	X			003
4	YAT-YGWA-1D	WG	G	8/15/23	1120	--	--		6	2		4							X	X	X	X			004
5	YAT-YGWA-2I	WG	G	8/15/23	1345	--	--		6	2		4							X	X	X	X			
6	YAT-YGWA-3I	WG	G			--	--		6	2		4							X	X	X	X			
7	YAT-YGWA-3D	WG	G	8/15/23	1310	--	--		6	2		4							X	X	X	X			
8						--	--																		
9						--	--																		
10						--	--																		
11						--	--																		
12						--	--																		

Residual Chlorine (Y/N): 9260832

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/15/23	1605	/Arcadis	8/15/23	1805	
App III Metals: Boron 6020B, Ca 6010D; App III 6020B: Zn, Ag, Ni, V	/Arcadis	8/16/23	0907	/Pace	8/16/23	0917	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg).	/Pace	8/16/23	1115	/Pace	8/16/23	1115	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: (Arcadis) - David Trouth

SIGNATURE of SAMPLER: (Arcadis) DATE Signed: 8/15/23

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Off Power

Project #: WO#: 92683132

Courier: ☐ Commercial ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Pace ☐ Other:____

PM: BV Due Date: 09/07/23

CLIENT: 92-GP-Yates

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 8/16/23 Cmf

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: 2.3 **Correction Factor:** Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 2.3

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#: 92683132**

PM: BV Due Date: 09/07/23

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)
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S2	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	~~Nicole D'Olio~~ Bonnie Jung
Requested Due Date:	Standard	Project Number:		Pace Profile #:	10840

Requested Analysis Filtered (Y/N) | State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / III (gypsum only)	Residual Chlorine (Y/N)	92683/32
1	YAT-YGWA-47	WG	G			--	--		6	2		4							X	X	X	X				
2	YAT-GWA-2	WG	G			--	--		6	2		4							X	X	X	X	X			
3	YAT-YGWA-4I	WG	G	8/15/23	1725	--	--		6	2		4							X	X	X	X				WS
4	YAT-YGWA-5I	WG	G	8/15/23	1020	--	--		6	2		4							X	X	X	X				WG
5	YAT-YGWA-5D	WG	G	8/15/23	1113	--	--		6	2		4							X	X	X	X				WS
6	YAT-YGWA-17S	WG	G			--	--		6	2		4							X	X	X	X				
7	YAT-YGWA-18S	WG	G	8/15/23	1455	--	--		6	2		4							X	X	X	X				WG
8	YAT-YGWA-18I	WG	G	8/15/23	1540	--	--		6	2		4							X	X	X	X				WG
9	YAT-YGWA-20S	WG	G			--	--		6	2		4							X	X	X	X				
10	YAT-YGWA-21I	WG	G			--	--		6	2		4							X	X	X	X				
11	YAT-YGWA-30I	WG	G			--	--		6	2		4							X	X	X	X				
12	YAT-YGWA-14S	WG	G	8/15/23	1730	--	--		6	2		4							X	X	X	X				GW

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/16/23	0755		8/16/23	0755	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	Arcadis	8/16/23	0901	Ryan Williams / Pace	8/16/23	0907	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg);	Ryan Williams / Pace	8/16/23	1115		8/16/23	1115	

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Kim Lapsevynski					
SIGNATURE of SAMPLER:		DATE Signed: 8/16/23				

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO#: 92683132**

Courier: ☐ Commercial ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Pace ☐ Other:

PM: BV **Due Date: 09/07/23**

CLIENT: 92-GP-Yates

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/initials Person Examining Contents: 8/16/23 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: 2.3 **Correction Factor:** Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 2.3

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#: 92683132

PM: BV Due Date: 09/07/23

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)
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : | Of |

Section A – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S2	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	~~Nicole D'Oleo~~ Rose Hanna
Requested Due Date:	Standard	Project Number:		Pace Profile #:	10840

Regulatory Agency

State / Location: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	926683132
1	YAT-YGWA-47	WG	G	8/15/23	0943	--	--		6	2		4							X	X	X	X			011
2	YAT-GWA-2	WG	G			--	--		6	2		4							X	X	X	X	X		
3	YAT-YGWA-4I	WG	G			--	--		6	2		4							X	X	X	X			
4	YAT-YGWA-5I	WG	G			--	--		6	2		4							X	X	X	X			
5	YAT-YGWA-5D	WG	G			--	--		6	2		4							X	X	X	X			
6	YAT-YGWA-17S	WG	G			--	--		6	2		4							X	X	X	X			
7	YAT-YGWA-18S	WG	G			--	--		6	2		4							X	X	X	X			
8	YAT-YGWA-18I	WG	G			--	--		6	2		4							X	X	X	X			
9	YAT-YGWA-20S	WG	G			--	--		6	2		4							X	X	X	X			
10	YAT-YGWA-21I	WG	G			--	--		6	2		4							X	X	X	X			
11	YAT-YGWA-30I	WG	G			--	--		6	2		4							X	X	X	X			
12	YAT-YGWA-14S	WG	G			--	--		6	2		4							X	X	X	X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Mark Chest /Arcadis	8/16/23	0907	Ryan Williams / Pace	8/16/23	0907	
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V	Ryan Williams / Pace	8/16/23	1115		8/16/23	1115	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg).							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chest

SIGNATURE of SAMPLER: [signature]

DATE Signed: 8/16/23

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Off Power

Project #: **WO#: 92683132**

PM: BV Due Date: 09/07/23

CLIENT: 92-GP-Yates

Courier: ☐ Commercial ☑ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other: ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 8/16/23 CMH

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: 2.3 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.3

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

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# : 92683132

PM: BV **Due Date: 09/07/23**

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 Steijle 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)
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	lsucoker@southernco.com
Phone:	470.620.6176 Fax
Requested Due Date:	Standard

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Task No:	YAT-CCR-ASSMT-202352
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C — Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Nicole D'Oleo
Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	92683132
1	YAT-YGWA-47	WG	G			–	–		6	2		4							X	X	X	X			
2	YAT-GWA-2	WG	G	8/15/23	1020	–	–		6	2		4							X	X	X	X	X		0.12
3	YAT-YGWA-4I	WG	G			–	–		6	2		4							X	X	X	X			
4	YAT-YGWA-5I	WG	G			–	–		6	2		4							X	X	X	X			
5	YAT-YGWA-5D	WG	G			–	–		6	2		4							X	X	X	X			
6	YAT-YGWA-17S	WG	G			–	–		6	2		4							X	X	X	X			
7	YAT-YGWA-18S	WG	G			–	–		6	2		4							X	X	X	X			
8	YAT-YGWA-18I	WG	G			–	–		6	2		4							X	X	X	X			
9	YAT-YGWA-20S	WG	G			–	–		6	2		4							X	X	X	X			
10	YAT-YGWA-21I	WG	G			–	–		6	2		4							X	X	X	X			
11	YAT-YGWA-30I	WG	G			–	–		6	2		4							X	X	X	X			
12	YAT-YGWA-14S	WG	G			–	–		6	2		4							X	X	X	X			

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/16/23	0900	/Pace	8/16/23	0800	
App III Metals: Boron 6020B, Ca 6010D; App I/III 6020B: Zn, Ag, Ni, V	/Arcadis	8/16/23	0907	/Pace	8/16/23	0907	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	/Pace	8/16/23	1115	/Pace	8/16/23	1115	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Luke Swanson

SIGNATURE of SAMPLER: [signature] DATE Signed: 8/15/23

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: WO#: 92683132

PM: BV Due Date: 09/07/23

CLIENT: 92-GP-Yates

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other: ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 8/16/23 CMH

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 230

Cooler Temp: 2.3 Correction Factor: Add/Subtract (°C) 0.0 Type of Ice: ☐ Wet ☐ Blue ☐ None

Cooler Temp Corrected (°C): 2.3

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#: 92683132**

PM: BV Due Date: 09/07/23

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-)	AG3S-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)	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		1	1			2																		2	2				
2		1	1			2																		2	2				
3		1	1			2																		2	2				
4		1	1			2																		2	2				
5		1	1			2																		2	2				
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-202392	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	~~Nicole D'Otto~~ Brooke Jany
Requested Due Date:	Standard	Project Number:		Pace Profile #:	10840

Regulatory Agency: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	9266313
1	YAT-YGWA-47	WG	G			--	--		6	2		4							X	X	X	X			
2	YAT-GWA-2	WG	G			--	--		6	2		4							X	X	X	X	X		
3	YAT-YGWA-4I	WG	G			--	--		6	2		4							X	X	X	X			
4	YAT-YGWA-5I	WG	G			--	--		6	2		4							X	X	X	X			
5	YAT-YGWA-5D	WG	G			--	--		6	2		4							X	X	X	X			
6	YAT-YGWA-17S	WG	G	8/15	1450	--	--		6	2		4							X	X	X	X			013
7	YAT-YGWA-18S	WG	G			--	--		6	2		4							X	X	X	X			
8	YAT-YGWA-18I	WG	G			--	--		6	2		4							X	X	X	X			
9	YAT-YGWA-20S	WG	G	8/15	1225	--	--		6	2		4							X	X	X	X			014
10	YAT-YGWA-21I	WG	G	8/15	1035	--	--		6	2		4							X	X	X	X			015
11	YAT-YGWA-30I	WG	G			--	--		6	2		4							X	X	X	X			
12	YAT-YGWA-14S	WG	G			--	--		6	2		4							X	X	X	X			

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/15/23	1805	/ Arcadis	8/15/23	1805	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	Arcadis	8/16/23	0907	Ryan Williams / Pace	8/16/23	0907	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg).	Ryan Williams / Pace	8/16/23	1115	/	8/16/23	1115	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jessica Ware

SIGNATURE of SAMPLER: DATE Signed: 8/15/23

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 2 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-202352	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	~~Nicole D'Olen~~ Bonnie Young
Requested Due Date:	Standard	Project Number:		Pace Profile #:	10840

Regulatory Agency: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	YAT-YGWA-39	WG	G	8/15	1611	--	--		6	2		4							X	X	X	X			1116
2	YAT-YGWA-40	WG	G	8/15	1720	--	--		6	2		4							X	X	X	X			1117
3	YAT-YGWA-1I	WG	G			--	--		6	2		4							X	X	X	X			
4	YAT-YGWA-1D	WG	G			--	--		6	2		4							X	X	X	X			
5	YAT-YGWA-2I	WG	G			--	--		6	2		4							X	X	X	X			
6	YAT-YGWA-3I	WG	G			--	--		6	2		4							X	X	X	X			
7	YAT-YGWA-3D	WG	G			--	--		6	2		4							X	X	X	X			
8						--	--																		
9						--	--																		
10						--	--																		
11						--	--																		
12						--	--																		

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/15/23	1805	/Arcadis	8/15/23	1805	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	/Arcadis	8/16/23	0907	Ryan Williams / Pace	8/16/23	0907	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se); 7040A: Mercury (Hg)	Ryan Williams / Pace	8/16/23	1115		8/16/23	1115	

SAMPLER NAME AND SIGNATURE				TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	(Arcadis): Jessica Ware						
SIGNATURE of SAMPLER:	(Arcadis):	DATE Signed:	8/15/23				

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: WO#: 92683132

PM: BV Due Date: 09/07/23

CLIENT: 92-GP-Yates

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other: ☑ Client

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No

Date/Initials Person Examining Contents: 9-17-23 AY

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: 5.7 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 5.7

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WG				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Qualtrax ID: 82814

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottles**

*****Check all unpreserved Nitrates for chlorine**

Project #

WO#: 92683132

PM: BV **Due Date: 09/07/23**

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		1	1	2		2																							
2																													
3																													
4																													
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 2

Section A – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S2	Address:	
Email To:	tjnupoken@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Elbo
Requested Due Date:	Standard	Project Number:		Pace Profile #:	10840

Pace Analytical — Georgia

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 6516/9320	App I / Si (gypsum only)	Residual Chlorine (Y/N)	92863132
	YAT-YGWA-4I	WG	G			–	–		6	2		4						X	X	X	X			
	YAT-GWA-2	WG	G			–	–		6	2		4						X	X	X	X	X		
	YAT-YGWA-4I	WG	G			–	–		6	2		4						X	X	X	X			
	YAT-YGWA-5I	WG	G			–	–		6	2		4						X	X	X	X			
	YAT-YGWA-5D	WG	G			–	–		6	2		4						X	X	X	X			
	YAT-YGWA-17S	WG	G			–	–		6	2		4						X	X	X	X			
	YAT-YGWA-18S	WG	G			–	–		6	2		4						X	X	X	X			
	YAT-YGWA-18I	WG	G			–	–		6	2		4						X	X	X	X			
	YAT-YGWA-20S	WG	G			–	–		6	2		4						X	X	X	X			
10	YAT-YGWA-21I	WG	G			–	–		6	2		4						X	X	X	X			
	YAT-YGWA-30I	WG	G	8/16/23	1230	–	–		6	2		4						X	X	X	X			0716
	YAT-YGWA-14S	WG	G			–	–		6	2		4						X	X	X	X			

Anions Suite 300.0 (Cl, F, Sulfate)	Kevin Finch /Arcadis	8/17/23	0833	Michael James	8/17/23	0834		
App III Metals: Boron 6020B, Ca 6010D; App IV 6020B: Zn, Ag, Tl, V	Michael Arcadis	8/17/23		Ryan William /Pace	8/17/23	0955		
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7470A: Mercury (Hg)	Ryan William /Pace	8/17/23	1254		8/17	1254		

PRINT Name of SAMPLER:	David Craft	DATE Signed:	8/16/23	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SIGNATURE of SAMPLER:							

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ ~~Kernersville~~ ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO#: 92683132**

PM: BV Due Date: 09/07/23

CLIENT: 92-GP-Yates

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Pace ☐ Other:____ ☑ Client

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No

Date/Initials Person Examining Contents: 9-17-23 AY

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: 5.7 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): 5.7

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☑ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☑ Yes	☐ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☐ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8.
Sample Labels Match COC?	☐ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WG				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Qualtrax ID: 69614

WO#: 92683132

***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: 09/07/23

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)	SPST-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1	2		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.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-202382	Address:	
Email To:	jaucoke@southernco.com	Purchase Order #:		Pace Quote:	Bonnie Young
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Alicole DiCioo
Requested Due Date:	Standard	Project Number:		Pace Profile #:	10840

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
	YAT-YGWA-3S	WG	G			-	-		6	2		4						X	X	X	X			G2063132
	YAT-YGWA-4D	WG	G			-	-		6	2		4						X	X	X	X			
	YAT-YGWA-1I	WG	G			-	-		6	2		4						X	X	X	X			
	YAT-YGWA-1D	WG	G			-	-		6	2		4						X	X	X	X			
	YAT-YGWA-2I	WG	G			-	-		6	2		4						X	X	X	X			
	YAT-YGWA-3I	WG	G	8/16/23	1050	-	-		6	2		4						X	X	X	X			G19
	YAT-YGWA-3D	WG	G			-	-		6	2		4						X	X	X	X			
						-	-																	
						-	-																	
						-	-																	
						-	-																	
						-	-																	

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

Anions Suite 300.0 (Cl, F, Sulfate)

App III Metals- Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V

App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)

[signature]	(Arcadis)	8/17/23	0853	[signature]	8/17/23	0832
[signature]		8/17/23		Ryan Williams	8/17/23	0955
Ryan Williams		8/17/23	1259	[signature]	8/17	1259

PRINT Name of SAMPLER: (Arcadis) - David Prouty

SIGNATURE of SAMPLER: (Arcadis) [signature] DATE Signed: 8/16/23

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test: Ra-228
Analyst: JJS1
Date: 8/31/2023
Worklist: 75028
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2976835
MB concentration:	0.100
M/B 2 Sigma CSU:	0.312
MB MDC:	0.703
MB Numerical Performance Indicator:	0.63
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS75028	LCSD75028
Count Date:	9/6/2023	9/6/2023
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	39.931	39.931
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.820	0.817
Target Conc. (pCi/L, g, F):	4.871	4.885
Uncertainty (Calculated):	0.239	0.239
Result (pCi/L, g, F):	4.767	3.683
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.036	0.867
Numerical Performance Indicator:	-0.19	-2.62
Percent Recovery:	97.85%	75.39%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Duplicate Sample Assessment		
Sample I.D.:	LCS75028	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD75028	
Sample Result (pCi/L, g, F):	4.767	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.036	
Sample Duplicate Result (pCi/L, g, F):	3.683	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.867	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	1.573	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	25.93%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
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:

VAL
9/8/23

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	ZPC
Date:	8/31/2023
Worklist:	75029
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2976847
MB concentration:	0.830
M/B 2 Sigma CSU:	0.342
MB MDC:	0.491
MB Numerical Performance Indicator:	4.76
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	See Comment*

OK

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS75029	LCSD75029
Count Date:	9/6/2023	9/6/2023
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	39.931	39.931
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.817	0.817
Target Conc. (pCi/L, g, F):	4.889	4.888
Uncertainty (Calculated):	0.240	0.240
Result (pCi/L, g, F):	3.930	3.696
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.909	0.843
Numerical Performance Indicator:	-2.00	-2.67
Percent Recovery:	80.39%	75.60%
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.:	LCS75029	
Duplicate Sample I.D.	LCSD75029	
Sample Result (pCi/L, g, F):	3.930	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.909	
Sample Duplicate Result (pCi/L, g, F):	3.696	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.843	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.370	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	6.14%	
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:
*The method blank result is below the reporting limit for this analysis and is acceptable.

VAL
9/8/23

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	VAL
Date:	9/5/2023
Worklist:	75032
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2976857
MB concentration:	-0.061
M/B 2 Sigma CSU:	0.274
MB MDC:	0.661
MB Numerical Performance Indicator:	-0.44
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS75032	LCSD75032
Count Date:	9/8/2023	9/8/2023
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	39.906	39.906
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.816	0.820
Target Conc. (pCi/L, g, F):	4.890	4.868
Uncertainty (Calculated):	0.240	0.239
Result (pCi/L, g, F):	5.009	4.854
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.056	1.035
Numerical Performance Indicator:	0.22	-0.03
Percent Recovery:	102.44%	99.70%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Duplicate Sample Assessment		
Sample I.D.:	LCS75032	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD75032	
Sample Result (pCi/L, g, F):	5.009	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.056	
Sample Duplicate Result (pCi/L, g, F):	4.854	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.035	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.206	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	2.71%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
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:

9/11/23

LAM 9/12/23

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	9/2/2023
Worklist:	75042
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2977146
MB concentration:	0.101
M/B 2 Sigma CSU:	0.125
MB MDC:	0.261
MB Numerical Performance Indicator:	1.59
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS75042	LCSD75042
Count Date:	9/8/2023	9/8/2023
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.013	24.013
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.501	0.503
Target Conc. (pCi/L, g, F):	4.790	4.775
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	6.088	6.235
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.071	1.103
Numerical Performance Indicator:	2.37	2.59
Percent Recovery:	127.10%	130.59%
Status vs Numerical Indicator:	Warning	Warning
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS75042	92683140002
Duplicate Sample I.D.	LCSD75042	92683140002DUP
Sample Result (pCi/L, g, F):	6.088	0.160
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.071	0.135
Sample Duplicate Result (pCi/L, g, F):	6.235	0.280
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.103	0.167
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-0.187	-1.090
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	2.70%	54.18%
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:

9/8/23

LAM 9/8/23

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	9/12/2023
Worklist:	75103
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2982186
MB concentration:	0.199
M/B 2 Sigma CSU:	0.286
MB MDC:	0.622
MB Numerical Performance Indicator:	1.36
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS75103	LCSD75103
Count Date:	9/13/2023	9/13/2023
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.031	25.031
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.504	0.509
Target Conc. (pCi/L, g, F):	4.965	4.920
Uncertainty (Calculated):	0.233	0.231
Result (pCi/L, g, F):	5.960	4.641
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.214	1.014
Numerical Performance Indicator:	1.58	-0.53
Percent Recovery:	120.03%	94.32%
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.:	LCS75103	92682115021
Duplicate Sample I.D.	LCSD75103	92682115021DUP
Sample Result (pCi/L, g, F):	5.960	0.432
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.214	0.300
Sample Duplicate Result (pCi/L, g, F):	4.641	0.258
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.014	0.271
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	1.634	0.844
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	23.99%	50.51%
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:

LAM 9/13/23

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	9/13/2023
Worklist:	75106
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2982190
MB concentration:	0.438
M/B 2 Sigma CSU:	0.430
MB MDC:	0.847
MB Numerical Performance Indicator:	2.00
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS75106	LCSD75106
Count Date:	9/13/2023	9/13/2023
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.031	25.031
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.506	0.501
Target Conc. (pCi/L, g, F):	4.948	4.999
Uncertainty (Calculated):	0.233	0.235
Result (pCi/L, g, F):	4.951	4.002
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.188	1.046
Numerical Performance Indicator:	0.00	-1.82
Percent Recovery:	100.06%	80.06%
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.:	LCS75106	92683386026
Duplicate Sample I.D.	LCSD75106	92683386026DUP
Sample Result (pCi/L, g, F):	4.951	0.428
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.188	0.368
Sample Duplicate Result (pCi/L, g, F):	4.002	0.305
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.046	0.323
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	1.175	0.489
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	22.21%	33.36%
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:		

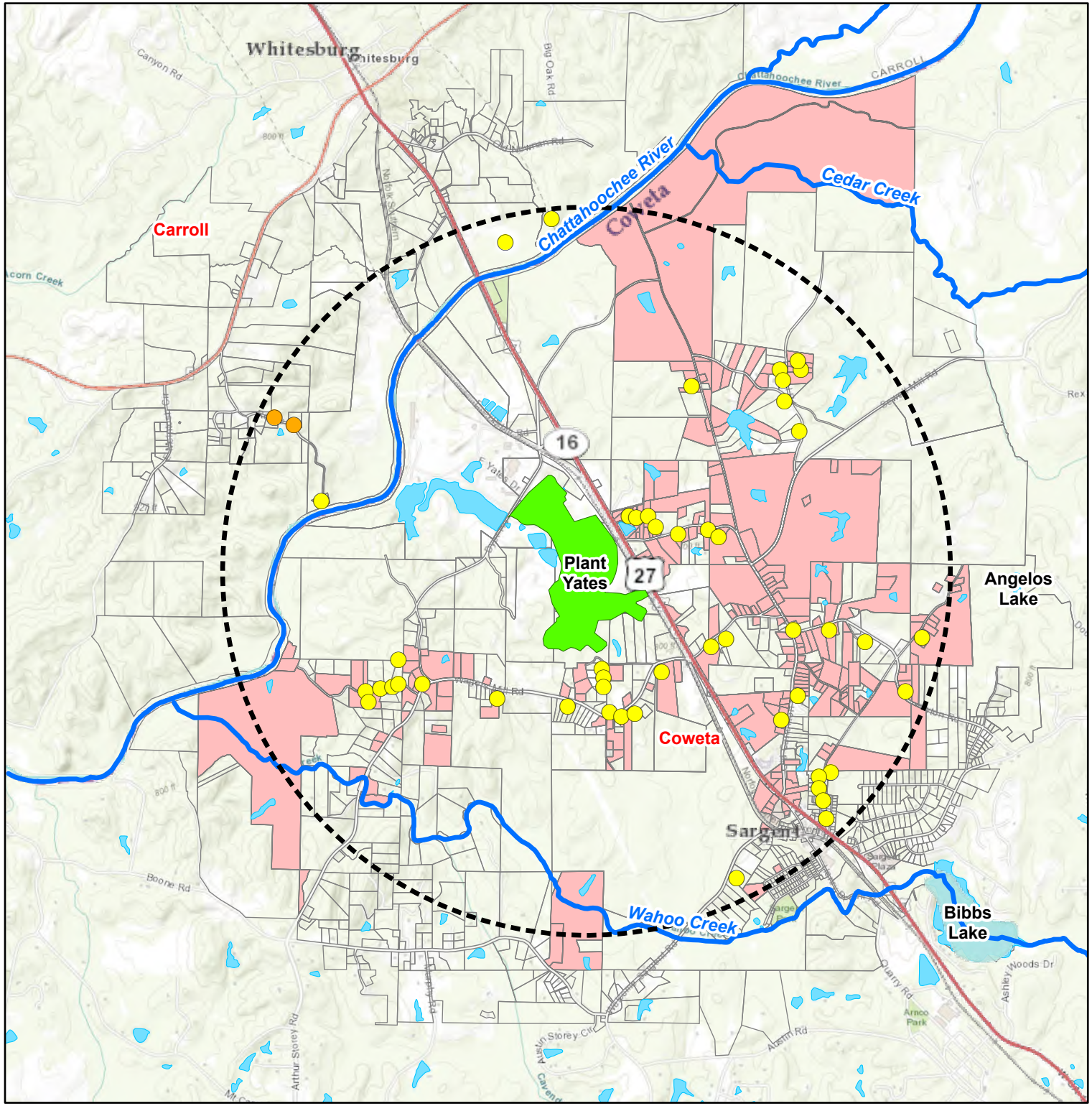
Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

LAM 9/13/23

Appendix C

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

GPC Yates
708 Dyer Road
Newnan, GA 30263

Inquiry Number: 7512374.1s
December 05, 2023

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.

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GEOCHECK® - PHYSICAL SETTING SOURCE REPORT

TARGET PROPERTY ADDRESS

GPC YATES
708 DYER ROAD
NEWNAN, GA 30263

TARGET PROPERTY COORDINATES

Latitude (North):	33.458898 - 33° 27' 32.03''
Longitude (West):	84.898326 - 84° 53' 53.97''
Universal Tranverse Mercator:	Zone 16
UTM X (Meters):	695328.6
UTM Y (Meters):	3703945.2
Elevation:	741 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).

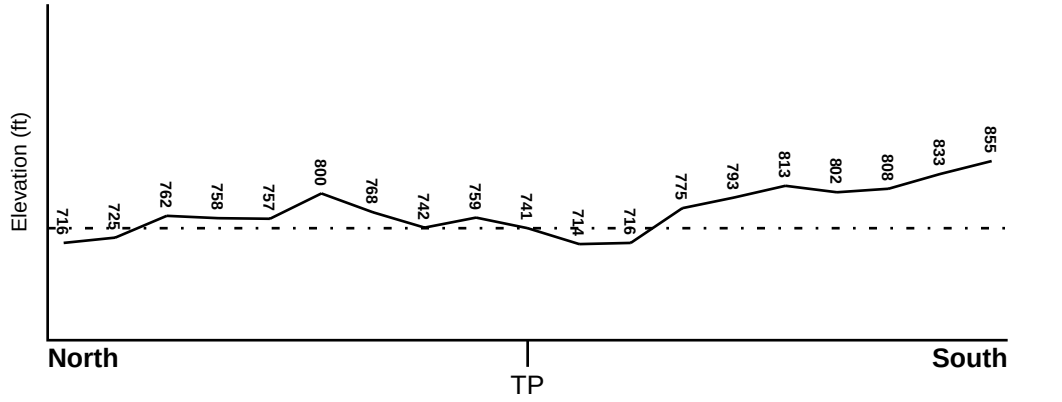
TOPOGRAPHIC INFORMATION

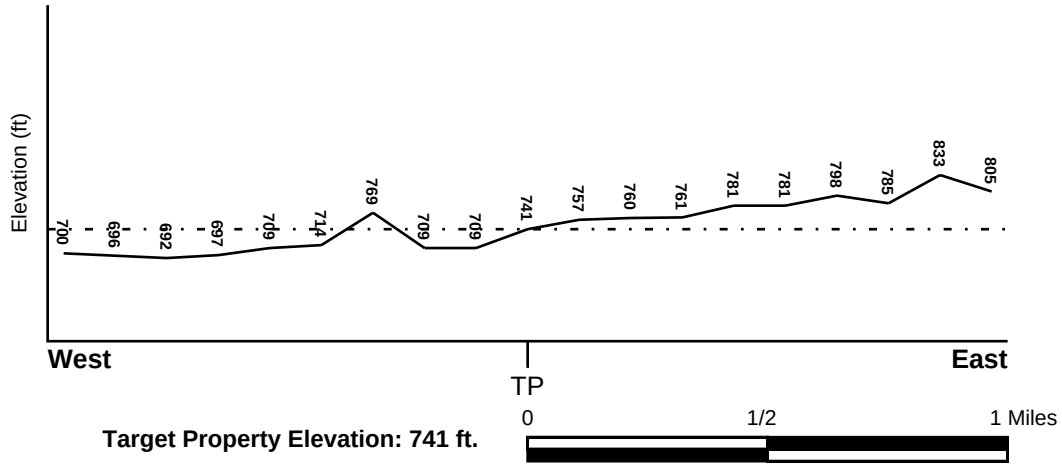
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General WSW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 741 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

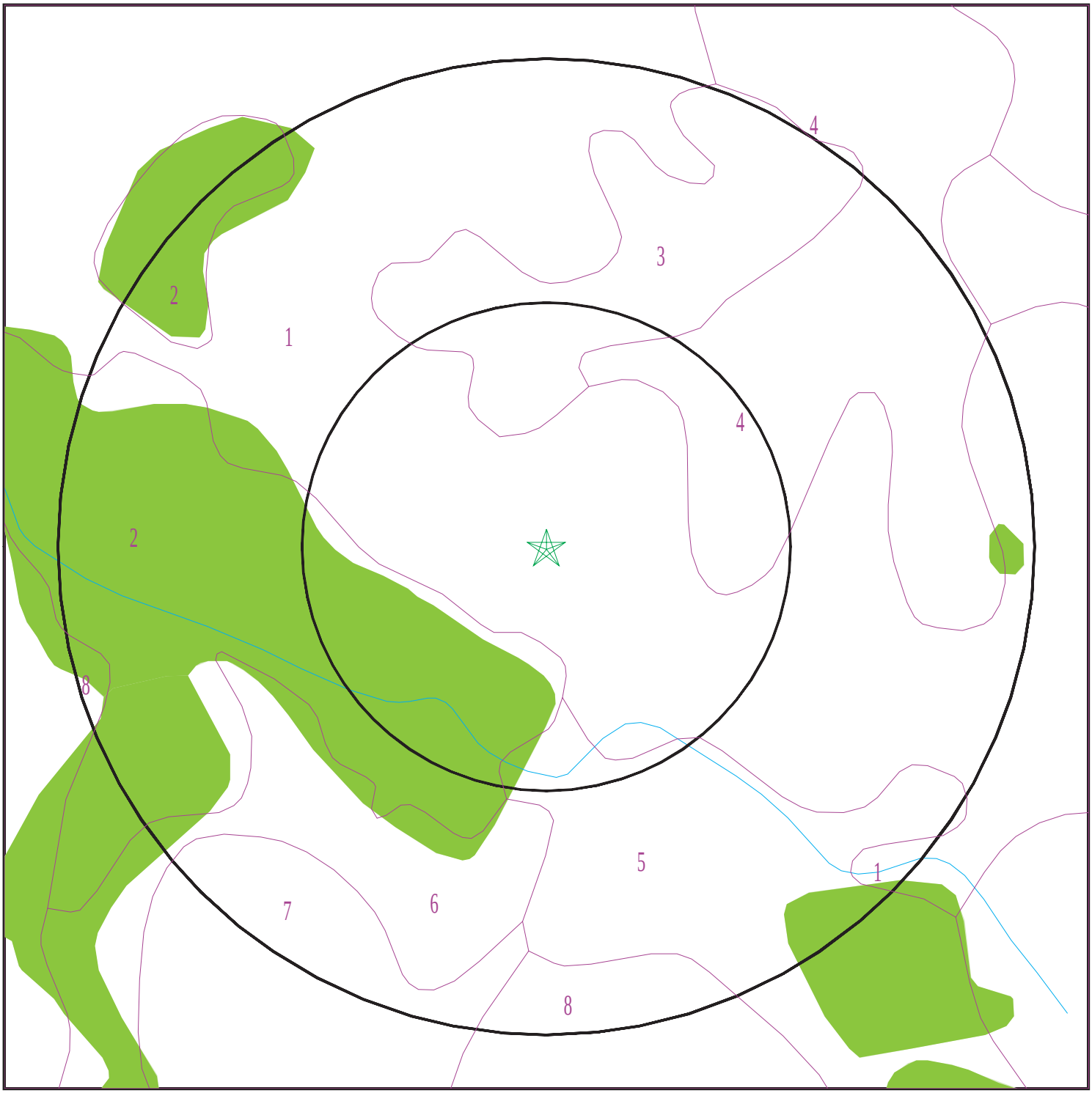
Era:	Paleozoic
System:	Ordovian
Series:	Lower Paleozoic granitic rocks
Code:	Pzg1 *(decoded above as Era, System & Series)*

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 - 7512374.1s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	GPC Yates	CLIENT:	ARCADIS U.S., Inc.
ADDRESS:	708 Dyer Road Newnan GA 30263	CONTACT:	Rebecca Steever
LAT/LONG:	33.458898 / 84.898326	INQUIRY #:	7512374.1s
		DATE:	December 05, 2023 9:31 am

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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: Water

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: 3

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: 4

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: 5

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

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	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: 6

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: 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

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
A2	USGS40000263319	1/8 - 1/4 Mile NNW
B3	USGS40000263313	1/4 - 1/2 Mile NE
C7	USGS40000263338	1/2 - 1 Mile NNW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

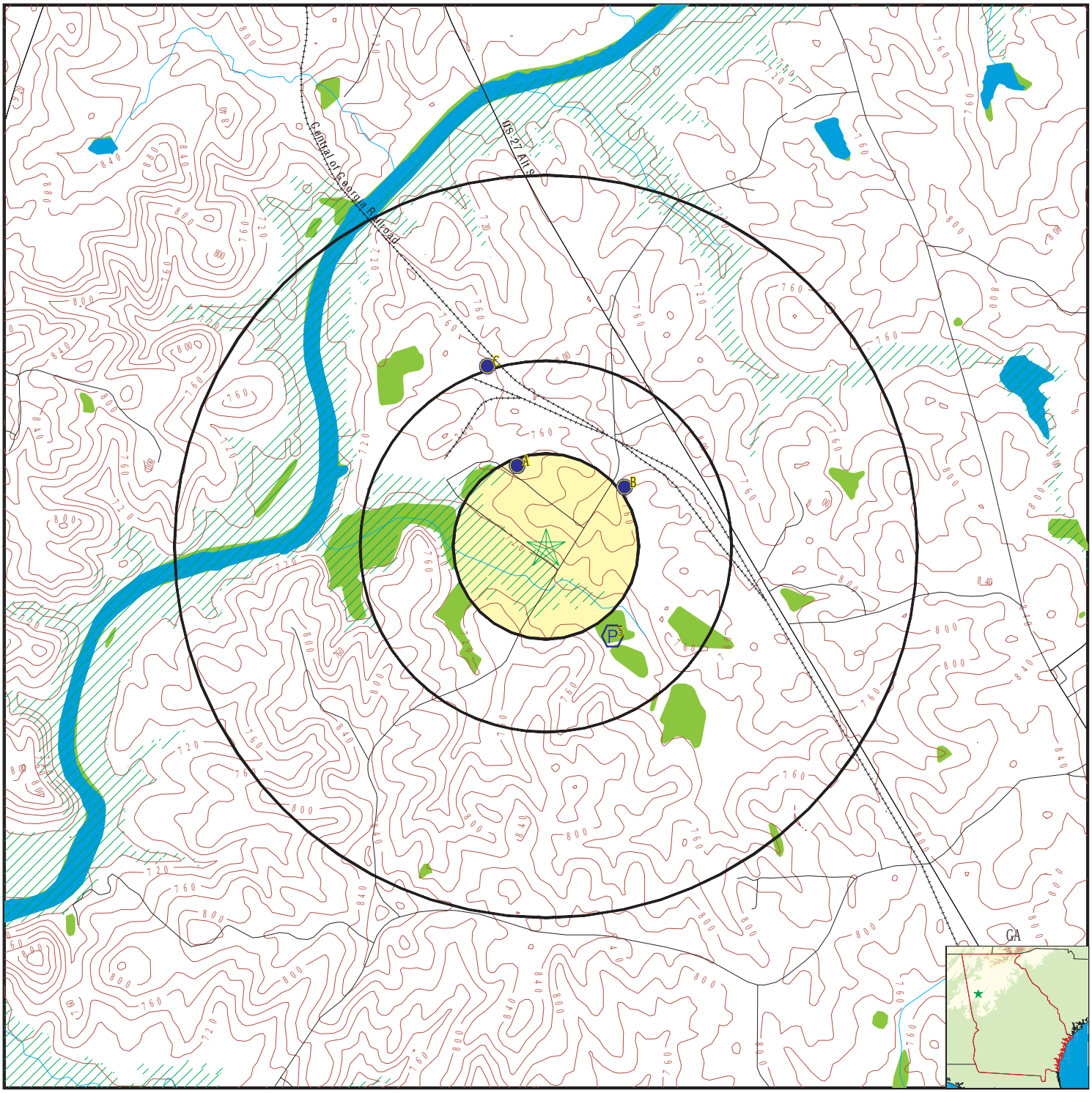
MAP ID	WELL ID	LOCATION FROM TP
5	GA0770020	1/4 - 1/2 Mile SE

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	0000002624	1/8 - 1/4 Mile NNW
B4	0000002623	1/4 - 1/2 Mile NE
C6	0000002625	1/2 - 1 Mile NNW

PHYSICAL SETTING SOURCE MAP - 7512374.1s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

0 1/4 1/2 1 Miles

- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- Wildlife Areas

N

SITE NAME:	GPC Yates	CLIENT:	ARCADIS U.S., Inc.
ADDRESS:	708 Dyer Road Newnan GA 30263	CONTACT:	Rebecca Steever
		INQUIRY #:	7512374.1s
LAT/LONG:	33.458898 / 84.898326	DATE:	December 05, 2023 9:31 am

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A1
NNW
1/8 - 1/4 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

A2
NNW
1/8 - 1/4 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

B3
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

B4
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

5
SE
1/4 - 1/2 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

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

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Appendix D

Statistical Analysis

Appendix III Statistically Significant Increase Summary (February 2023)

Appendix III Parameter	Monitoring Wells
Boron	YGWC-23S, YGWC-38, YGWC-41, YGWC-42, YGWC-43
Calcium	YGWC-38, YGWC-42
Sulfate	YGWC-38, YGWC-42, YGWC-43
Total Dissolved Solids	YGWC-38, YGWC-41, YGWC-42, YGWC-43

Appendix III Statistically Significant Increase Summary (August 2023)

Appendix III Parameter	Monitoring Wells
Boron	YGWC-23S, YGWC-38, YGWC-41, YGWC-42, YGWC-43
Calcium	YGWC-38, YGWC-42
Sulfate	YGWC-38, YGWC-42
Total Dissolved Solids	YGWC-38, YGWC-41, YGWC-42, YGWC-43

February 2023

GROUNDWATER STATS CONSULTING

August 31, 2023

Southern Company Services
Attn: Ms. Lauren Hartley
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, GA 30308-3374

Re: Plant Yates Ash Management Area (AMA) and R6 CCR Landfill
February 2023 Statistical Analysis

Dear Ms. Hartley,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the February 2023 semi-annual Groundwater Detection and Assessment Monitoring statistical analysis for Georgia Power Company's Plant Yates Ash Management Area (AMA) and R6 CCR Landfill. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10, and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling for the Appendix III parameters began in 2016, and at least 8 background samples were collected at each of the groundwater monitoring wells. Semi-annual sampling of the majority of Appendix IV constituents has been performed for several years in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations. A list of all parameters is provided below.

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:**
  - **AP-1:** YGWA-47
  - **AP-2:** YGWA-1D, YGWA-1I, YGWA-2I, YGWA-3D, YGWA-3I, YGWA-14S and, YGWA-30I
  - **Gypsum Landfill:** GWA-2
  - **AMA-R6:** YGWA-17S, YGWA-18I, YGWA-18S, YGWA-20S, YGWA-21I, YGWA-39, YGWA-40, YGWA-4I, YGWA-5D, and YGWA-5I
- **Downgradient wells:** YGWC-23S, YGWC-24SB, YGWC-36A, YGWC-38, YGWC-41, YGWC-42, YGWC-43, YGWC-49
- **Assessment wells:** YAMW-1, YAMW-2, YAMW-3, YAMW-4, YAMW-5, PZ-35, PZ-37, PZ-37D, PZ-51, and PZ-52D

Data from assessment wells are evaluated with confidence intervals for the Appendix IV constituents when a minimum of 4 samples is available.

Well YGWC-24SA was installed in June 2020 as a replacement well for YGWC-24S. Note that downgradient well YGWC-24SA was abandoned and replacement well YGWC-24SB was installed in late 2022. YGWC-24SB was first sampled in February 2023. Well YGWC-36A was installed in September 2020 as a replacement well for YGWC-36 to supplement existing data for each constituent.

In the current analysis, reported observations from the February 2023 sample event for Appendix III constituents at YGWC-24SB and YGWC-36A are compared to interwell prediction limits and are treated the same as Appendix III data from the other downgradient wells. Data from wells YGWC-24, YGWC-24SA, and YGWC-24SB are plotted under YGWC-24SB and data from wells YGWC-36 and YGWC-36A are plotted under well YGWC-36A. Throughout this report, wells YGWC-24SB and YGWC-36A refer to the respective combined data from the aforementioned wells.

When a minimum of 8 samples have been collected from new wells YGWC-24SB and YGWC-36A, the Mann-Whitney test of medians will be used to evaluate whether the medians of data from both wells are statistically similar. In cases where statistically significant differences are identified at the 99% confidence level, the historical record is truncated so that only data from the new wells, which may be more representative of present-day groundwater quality, are evaluated for the Appendix IV constituents in the confidence interval comparisons to respective Groundwater Protection Standards.

All data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed Kristina Rayner, Founder and Senior Statistician to Groundwater Stats Consulting.

The CCR program consists of the constituents listed below. The terms "parameters" and "constituents" are used interchangeably.

- **Appendix III** (Detection Monitoring) **-** boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Appendix IV** (Assessment Monitoring) **–** antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of Appendix IV downgradient and assessment well/constituent pairs containing 100% non-detects follows this letter.

Combined upgradient well data from all units at Plant Yates are utilized to construct statistical limits for Appendix III and IV parameters.

For all constituents, a substitution of the most recent reporting limit is used for non-detect data and this generally gives the most conservative limit in each case. For interwell prediction and tolerance limits, a single reporting limit substitution is used across upgradient wells for a given parameter. Regarding the case of cobalt, due to varying detection limits in individual wells, the most recent reporting limit of 0.005 mg/L was substituted across all wells for all calculations and reports.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

During previous screenings, data at all wells for constituents detected in downgradient wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. A power curve is provided and demonstrates that the selected statistical methods for the parameters listed above comply with the USEPA Unified Guidance and the Georgia Environmental Protection Division Rules for Solid Waste Management Chapter 391-3-4-

.10. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

Summary of Statistical Methods – Appendix III and IV Parameters

Based on the April 2019 evaluation and state and federal regulatory requirements described below, the following methods were selected for Appendix III and IV constituents:

- Appendix III: Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- Appendix IV: Confidence intervals for antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. Parametric prediction limits (or tolerance limits or confidence intervals as applicable) are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with the parametric limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The following approaches are used for handling non-detects (USEPA, 2009):

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel

to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. In some cases, the earlier portion of data are deselected prior to construction of limits to provide sensitive limits that will rapidly detect changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Summary of Background Screening Conducted in April 2019

Outlier Analysis

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not representative of the current background data population. Suspected outliers at all wells for Appendix III and Appendix IV parameters were formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits.

Using the Tukey box plot method, several outliers were identified. When the most recent value is identified as an outlier, values are not flagged in the database at this time as they may represent a possible trend. If future values do not remain at similar concentrations, these values will be flagged as outliers and deselected. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the laboratory's Practical Quantitation Limit. However, these values are observed trace values (i.e., measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers.

During the time of the screening, none of the outliers identified by Tukey's method were flagged in the database as all values were either similar to remaining measurements within the same well and neighboring wells, or the values were reported non-detects. Subsequently, when all upgradient wells were pooled to construct statistical limits, one detected value of 6.3 s.u. for pH at well YGWA-47 (an upgradient well from AP-1) was flagged as an outlier because it was unusually high during a single event compared to all other values at neighboring wells. When any values are flagged in the database as outliers, they are plotted in a disconnected and lighter symbol on the time series graph. The accompanying data pages will display the flagged value in a lighter font as well. A substitution of the most recent reporting limit was applied when varying detection limits existed in data. When the reporting limit was higher than the CCR-rule specified levels discussed below, non-detects were substituted with one half the reporting limit.

Seasonality

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

Trend Test Evaluation

While trends may be identified by visual inspection, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test was used to evaluate all data at each well to identify statistically significant increasing or decreasing trends and the results of those findings were submitted with the screening. In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, all available data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. When any records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

The results of the trend analyses showed several statistically significant decreasing and increasing trends for the Appendix III parameters. Most of the trends noted were relatively low in magnitude when compared to average concentrations, and the background time period was short with only two years of record, making it difficult to separate trends from normal year-to-year variation; therefore, no adjustments were made to the data sets at that time. If the observed decreasing or increasing trends persist over a longer time frame, some records may need to be truncated.

Appendix III – Determination of Spatial Variation

The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach. Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits

constructed from upgradient wells are not representative of the current background data population; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter.

The ANOVA identified variation among upgradient well data for all Appendix III parameters. These constituents were further evaluated during the screening for the appropriateness of intrawell or interwell methods for each constituent. However, interwell methods will be used for all Appendix III constituents in accordance with Georgia EPD requirements.

Statistical Analysis of Appendix III Parameters – February 2023

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were re-assessed for potential outliers during this analysis. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. No new values were flagged for Appendix III parameters, and a summary of flagged outliers follows this report (Figure C).

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through February 2023 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The February 2023 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When a resample confirms the initial exceedance, a statistically significant increase is identified and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result and, therefore, no exceedance is noted and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. A summary table of the interwell prediction limits follows this letter (Figure D). Prediction limit exceedances were noted for the following Appendix III well/constituent pairs:

- Boron: YGWC-23S, YGWC-38, YGWC-41, YGWC-42, and YGWC-43
- Calcium: YGWC-38 and YGWC-42
- Sulfate: YGWC-38, YGWC-42, and YGWC-43
- TDS: YGWC-38, YGWC-41, YGWC-42, and YGWC-43

Trend Test Evaluation – Appendix III

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable at the 99% confidence level (Figure E). Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site. Upgradient trends are an indication of variability in groundwater unrelated to practices at the site. Both a summary and complete graphical results of the trend tests follow this report. Statistically significant trends were identified for the following well/constituent pairs:

Increasing

- Boron: YGWA-39 (upgradient) and YGWC-43
- Calcium: GWA-2, YGWA-1D, YGWA-5I, YGWA-17S, YGWA-21I, and YGWA-39 (all upgradient)
- Sulfate: GWA-2, YGWA-1D, YGWA-3D, YGWA-3I, and YGWA-5I (all upgradient)
- TDS: YGWA-21I (upgradient), YGWA-39 (upgradient), and YGWC-43

Decreasing

- Boron: YGWA-40 (upgradient), YGWA-47 (upgradient), YGWC-38, YGWC-41, and YGWC-42
- Calcium: YGWA-1I (upgradient), YGWA-5D (upgradient), YGWA-18S (upgradient), YGWA-47 (upgradient), YGWC-38, and YGWC-42
- Sulfate: YGWA-5D (upgradient), YGWA-18I (upgradient), YGWA-39 (upgradient), YGWA-40 (upgradient), YGWA-47 (upgradient), YGWC-38, and YGWC-42
- TDS: YGWA-5D (upgradient), YGWA-47 (upgradient), YGWC-38, YGWC-41, and YGWC-42

Statistical Analysis of Appendix IV Parameters – February 2023

For analysis of Appendix IV parameters, confidence intervals for each downgradient well/constituent were compared against corresponding Groundwater Protection

Standards (GWPS). GWPS were developed as described below. Data from upgradient wells for Appendix IV parameters are reassessed for outliers during each analysis.

The reported measurements of cobalt from August 2020 through August 2022 in upgradient well GWA-2 were previously flagged as outliers as these measurements were two orders of magnitude higher than remaining measurements at this well. This step results in statistical limits that are conservative (i.e., lower) from a regulatory perspective. If further studies indicate these measurements represent natural variation in groundwater quality, the values will be re-evaluated for construction of interwell prediction limits. No additional values were flagged as outliers and a summary of flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

Interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through February 2023 for Appendix IV constituents (Figure F). Parametric tolerance limits are used when data follow a normal or transformed-normal distribution. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used. When the alpha level (or false positive rate) for a nonparametric limit is shown as NaN in the results table, it indicates that the background sample size is large enough such that the resulting alpha level (or false positive rate) is too small to display in the results table.

Groundwater Protection Standards

The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22, 2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, the GWPS is:

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title
- Where an MCL has not been established for a constituent, Federal and State CCR Rules specify levels for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)

- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for this sample event (Figure G).

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV constituents in accordance with the state requirements in each downgradient well (Figure H). Assessment wells were included when a minimum of 4 samples were available.

The Sanitas software was used to calculate the tolerance limits and the confidence intervals, either parametric or nonparametric, depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the highest and lowest values in background as interval limits, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The lower confidence limit, which is constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS prepared as described above. The confidence level associated with nonparametric confidence intervals is dependent upon the number samples available.

For some well/constituent pairs (barium at well PZ-37D, combined radium at wells YAMW-2, PZ-37D, PZ-52D, and molybdenum at well PZ-37D) the parametric lower confidence limit resulted in a negative number. Therefore, nonparametric confidence intervals were constructed for these well/constituent pairs and may be found at the end of Figure H. This is a more conservative approach in that the lower confidence limit reflects the lowest measurement in the data set for a given well rather than a negative number.

Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. A summary of the confidence intervals follows this letter. When the entire records were evaluated, exceedances were noted for the following well/constituent pairs:

- Selenium: YGWC-38 and PZ-37

Trend Test Evaluation – Appendix IV

Data at wells with confidence interval exceedances are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable at the 99% confidence level (Figure I). Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site for the same constituents. When trends are present in upgradient trends, it is an indication of variability in groundwater quality unrelated to practices at the site. A summary of the Appendix IV trend test results follows this letter. Statistically significant trends were identified for the following well/constituent pairs:

Increasing trend
- Selenium: YGWA-17S (upgradient)

Decreasing trend
- Selenium: YGWC-38

Note that for selenium at upgradient well YGWA-17S, a statistically significant increasing trend was identified. The slope, however, is zero at this well which represents the median slope of all the possible pairwise slopes of the data evaluated.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Yates Ash Management Area (AMA) and R6 CCR Landfill. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

Andrew T. Collins
Project Manager

Kristina L. Rayner
Senior Statistician

100% Non-Detects: Appendix IV Downgradient & Assessment

Analysis Run 4/26/2023 11:36 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Antimony (mg/L)
YAMW-2, YAMW-3, PZ-52D, PZ-51

Arsenic (mg/L)
YAMW-2, PZ-37D

Beryllium (mg/L)
YAMW-4, PZ-37D

Cadmium (mg/L)
YAMW-3, YAMW-4, YGWC-43, PZ-37D, PZ-52D, YGWC-24SB

Chromium (mg/L)
PZ-37D, PZ-51

Cobalt (mg/L)
YGWC-23S, YGWC-38, PZ-37D, YGWC-24SB

Fluoride (mg/L)
YAMW-1, PZ-35

Lead (mg/L)
YAMW-3, PZ-37D, PZ-51

Lithium (mg/L)
YAMW-2, YGWC-24SB

Mercury (mg/L)
YAMW-1, YAMW-2, YAMW-4, YAMW-5, PZ-35, YGWC-36A, PZ-37D, PZ-52D, PZ-51, YGWC-24SB

Molybdenum (mg/L)
YAMW-2, YAMW-5, YGWC-23S, YGWC-38, YGWC-41, PZ-51, YGWC-24SB

Selenium (mg/L)
YAMW-2, YAMW-3, YGWC-43, PZ-37D, YGWC-24SB

Thallium (mg/L)
YAMW-1, YAMW-2, YAMW-3, YAMW-4, YAMW-5, YGWC-23S, YGWC-38, YGWC-41, YGWC-42, YGWC-43, PZ-35, PZ-37, YGWC-36A, PZ-37D, PZ-52D, PZ-51, YGWC-24SB

Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/26/2023, 11:21 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**YGWC-23S**	**0.16**	**n/a**	**2/8/2023**	**1.6**	**Yes**	**369**	**n/a**	**n/a**	**49.86**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-38**	**0.16**	**n/a**	**2/8/2023**	**4.1**	**Yes**	**369**	**n/a**	**n/a**	**49.86**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-41**	**0.16**	**n/a**	**2/8/2023**	**3.3**	**Yes**	**369**	**n/a**	**n/a**	**49.86**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-42**	**0.16**	**n/a**	**2/8/2023**	**14.5**	**Yes**	**369**	**n/a**	**n/a**	**49.86**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-43**	**0.16**	**n/a**	**2/8/2023**	**2.5**	**Yes**	**369**	**n/a**	**n/a**	**49.86**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**YGWC-38**	**37**	**n/a**	**2/8/2023**	**55.3**	**Yes**	**369**	**n/a**	**n/a**	**0.813**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**YGWC-42**	**37**	**n/a**	**2/8/2023**	**74.6**	**Yes**	**369**	**n/a**	**n/a**	**0.813**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**YGWC-38**	**160**	**n/a**	**2/8/2023**	**251**	**Yes**	**369**	**n/a**	**n/a**	**5.962**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**YGWC-42**	**160**	**n/a**	**2/8/2023**	**494**	**Yes**	**369**	**n/a**	**n/a**	**5.962**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**YGWC-43**	**160**	**n/a**	**2/8/2023**	**164**	**Yes**	**369**	**n/a**	**n/a**	**5.962**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	**YGWC-38**	**225**	**n/a**	**2/8/2023**	**579**	**Yes**	**369**	**10.11**	**2.582**	**0.542**	**None**	**sqrt(x)**	**0.0009403**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**YGWC-41**	**225**	**n/a**	**2/8/2023**	**257**	**Yes**	**369**	**10.11**	**2.582**	**0.542**	**None**	**sqrt(x)**	**0.0009403**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**YGWC-42**	**225**	**n/a**	**2/8/2023**	**853**	**Yes**	**369**	**10.11**	**2.582**	**0.542**	**None**	**sqrt(x)**	**0.0009403**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**YGWC-43**	**225**	**n/a**	**2/8/2023**	**333**	**Yes**	**369**	**10.11**	**2.582**	**0.542**	**None**	**sqrt(x)**	**0.0009403**	**Param Inter 1 of 2**

Appendix III Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/26/2023, 11:21 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**YGWC-23S**	**0.16**	**n/a**	**2/8/2023**	**1.6**	**Yes**	**369**	**n/a**	**n/a**	**49.86**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-38**	**0.16**	**n/a**	**2/8/2023**	**4.1**	**Yes**	**369**	**n/a**	**n/a**	**49.86**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-41**	**0.16**	**n/a**	**2/8/2023**	**3.3**	**Yes**	**369**	**n/a**	**n/a**	**49.86**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-42**	**0.16**	**n/a**	**2/8/2023**	**14.5**	**Yes**	**369**	**n/a**	**n/a**	**49.86**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-43**	**0.16**	**n/a**	**2/8/2023**	**2.5**	**Yes**	**369**	**n/a**	**n/a**	**49.86**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	YGWC-49	0.16	n/a	2/9/2023	0.014J	No	369	n/a	n/a	49.86	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-36A	0.16	n/a	2/9/2023	0.028J	No	369	n/a	n/a	49.86	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-24SB	0.16	n/a	2/10/2023	0.04ND	No	369	n/a	n/a	49.86	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-23S	37	n/a	2/8/2023	10.9	No	369	n/a	n/a	0.813	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	**YGWC-38**	**37**	**n/a**	**2/8/2023**	**55.3**	**Yes**	**369**	**n/a**	**n/a**	**0.813**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	YGWC-41	37	n/a	2/8/2023	14.4	No	369	n/a	n/a	0.813	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	**YGWC-42**	**37**	**n/a**	**2/8/2023**	**74.6**	**Yes**	**369**	**n/a**	**n/a**	**0.813**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	YGWC-43	37	n/a	2/8/2023	11	No	369	n/a	n/a	0.813	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-49	37	n/a	2/9/2023	11.8	No	369	n/a	n/a	0.813	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-36A	37	n/a	2/9/2023	9.2	No	369	n/a	n/a	0.813	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-24SB	37	n/a	2/10/2023	2.4	No	369	n/a	n/a	0.813	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-23S	12	n/a	2/8/2023	2	No	369	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-38	12	n/a	2/8/2023	3.9	No	369	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-41	12	n/a	2/8/2023	4	No	369	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-42	12	n/a	2/8/2023	3.4	No	369	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-43	12	n/a	2/8/2023	2.4	No	369	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-49	12	n/a	2/9/2023	4.4	No	369	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-36A	12	n/a	2/9/2023	5.9	No	369	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-24SB	12	n/a	2/10/2023	9.1	No	369	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Fluoride (mg/L)	YGWC-23S	0.68	n/a	2/8/2023	0.1ND	No	438	n/a	n/a	64.16	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-38	0.68	n/a	2/8/2023	0.1ND	No	438	n/a	n/a	64.16	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-41	0.68	n/a	2/8/2023	0.1ND	No	438	n/a	n/a	64.16	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-42	0.68	n/a	2/8/2023	0.08J	No	438	n/a	n/a	64.16	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-43	0.68	n/a	2/8/2023	0.11	No	438	n/a	n/a	64.16	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-49	0.68	n/a	2/9/2023	0.1ND	No	438	n/a	n/a	64.16	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-36A	0.68	n/a	2/9/2023	0.1ND	No	438	n/a	n/a	64.16	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-24SB	0.68	n/a	2/10/2023	0.051J	No	438	n/a	n/a	64.16	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
pH (S.U.)	YGWC-23S	8.39	4.4	2/8/2023	5.33	No	448	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-38	8.39	4.4	2/8/2023	5.16	No	448	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-41	8.39	4.4	2/8/2023	4.69	No	448	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-42	8.39	4.4	2/8/2023	5.48	No	448	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-43	8.39	4.4	2/8/2023	5.4	No	448	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-49	8.39	4.4	2/9/2023	5.61	No	448	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-36A	8.39	4.4	2/9/2023	5.67	No	448	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-24SB	8.39	4.4	2/10/2023	5.67	No	448	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-23S	160	n/a	2/8/2023	78	No	369	n/a	n/a	5.962	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**YGWC-38**	**160**	**n/a**	**2/8/2023**	**251**	**Yes**	**369**	**n/a**	**n/a**	**5.962**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	YGWC-41	160	n/a	2/8/2023	119	No	369	n/a	n/a	5.962	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**YGWC-42**	**160**	**n/a**	**2/8/2023**	**494**	**Yes**	**369**	**n/a**	**n/a**	**5.962**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**YGWC-43**	**160**	**n/a**	**2/8/2023**	**164**	**Yes**	**369**	**n/a**	**n/a**	**5.962**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	YGWC-49	160	n/a	2/9/2023	71.1	No	369	n/a	n/a	5.962	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-36A	160	n/a	2/9/2023	50.8	No	369	n/a	n/a	5.962	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-24SB	160	n/a	2/10/2023	0.5J	No	369	n/a	n/a	5.962	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-23S	225	n/a	2/8/2023	158	No	369	10.11	2.582	0.542	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	**YGWC-38**	**225**	**n/a**	**2/8/2023**	**579**	**Yes**	**369**	**10.11**	**2.582**	**0.542**	**None**	**sqrt(x)**	**0.0009403**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**YGWC-41**	**225**	**n/a**	**2/8/2023**	**257**	**Yes**	**369**	**10.11**	**2.582**	**0.542**	**None**	**sqrt(x)**	**0.0009403**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**YGWC-42**	**225**	**n/a**	**2/8/2023**	**853**	**Yes**	**369**	**10.11**	**2.582**	**0.542**	**None**	**sqrt(x)**	**0.0009403**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**YGWC-43**	**225**	**n/a**	**2/8/2023**	**333**	**Yes**	**369**	**10.11**	**2.582**	**0.542**	**None**	**sqrt(x)**	**0.0009403**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	YGWC-49	225	n/a	2/9/2023	145	No	369	10.11	2.582	0.542	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-36A	225	n/a	2/9/2023	116	No	369	10.11	2.582	0.542	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-24SB	225	n/a	2/10/2023	66	No	369	10.11	2.582	0.542	None	sqrt(x)	0.0009403	Param Inter 1 of 2

Appendix III Trend Tests - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/26/2023, 11:26 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-39 (bg)	0.0181	75	63	Yes	17	5.882	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)	-0.01412	-91	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-38	-3.533	-114	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-41	-2.235	-96	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-42	-1.379	-87	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-43	0.506	86	63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-47 (bg)	-0.0007791	-66	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.137	126	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.07974	-131	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-21I (bg)	0.7925	98	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-39 (bg)	1.642	69	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-1.44	-101	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5I (bg)	0.06857	92	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWC-38	-27.66	-122	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWC-42	-11.48	-98	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-1.172	-111	-63	Yes	17	5.882	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	2.992	85	68	Yes	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.5761	98	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.08713	-95	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18I (bg)	-0.1242	-93	-81	Yes	20	20	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-2.618	-90	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-8.078	-103	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-2.638	-144	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.1006	134	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWC-38	-141.8	-125	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWC-42	-98.05	-101	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-15.39	-121	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)	14.48	88	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	0.9678	140	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.3151	105	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3I (bg)	0.9326	99	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-21I (bg)	11.42	85	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-39 (bg)	29.24	74	63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5D (bg)	-11.59	-90	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-38	-191	-100	-63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-41	-106.7	-106	-63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-42	-136.8	-102	-63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-43	57.74	76	63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-47 (bg)	-13.38	-101	-63	Yes	17	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/26/2023, 11:26 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-17S (bg)	0.0003162	37	81	No	20	10	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-18	-81	No	20	80	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	0.0004242	39	81	No	20	25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-7	-81	No	20	90	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	0	-48	-81	No	20	60	n/a	n/a	0.01	NP
Boron (mg/L)	**YGWA-39 (bg)**	**0.0181**	**75**	**63**	**Yes**	**17**	**5.882**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWA-40 (bg)**	**-0.01412**	**-91**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-4I (bg)	0	7	81	No	20	70	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0004226	48	81	No	20	15	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	0	-18	-81	No	20	65	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-23S	0.01895	15	81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	**YGWC-38**	**-3.533**	**-114**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-41**	**-2.235**	**-96**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-42**	**-1.379**	**-87**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-43**	**0.506**	**86**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWA-47 (bg)**	**-0.0007791**	**-66**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	GWA-2 (bg)	0	29	68	No	18	66.67	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-14S (bg)	-0.0006705	-53	-81	No	20	10	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0.001404	46	81	No	20	40	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1I (bg)	0	-3	-81	No	20	75	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-2I (bg)	0	-2	-81	No	20	80	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-16	-81	No	20	85	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	8	81	No	20	60	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	-15	-81	No	20	90	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-17S (bg)**	**0.137**	**126**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-18I (bg)	0.06151	41	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-18S (bg)**	**-0.07974**	**-131**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-20S (bg)	0.03077	57	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-21I (bg)**	**0.7925**	**98**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-39 (bg)**	**1.642**	**69**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-40 (bg)	-0.5174	-42	-63	No	17	5.882	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-4I (bg)	0.09322	24	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-5D (bg)**	**-1.44**	**-101**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-5I (bg)**	**0.06857**	**92**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWC-38**	**-27.66**	**-122**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWC-42**	**-11.48**	**-98**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-47 (bg)**	**-1.172**	**-111**	**-63**	**Yes**	**17**	**5.882**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GWA-2 (bg)**	**2.992**	**85**	**68**	**Yes**	**18**	**5.556**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-14S (bg)	0	4	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-1D (bg)**	**0.5761**	**98**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-1I (bg)**	**-0.08713**	**-95**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-2I (bg)	0.0884	17	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-30I (bg)	0.01674	45	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3D (bg)	0.3791	60	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3I (bg)	0.5034	67	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-17S (bg)	0.02875	23	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-18I (bg)**	**-0.1242**	**-93**	**-81**	**Yes**	**20**	**20**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-18S (bg)	-0.1096	-55	-81	No	20	10	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-20S (bg)	0	48	81	No	20	70	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-21I (bg)	-0.2092	-55	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-39 (bg)**	**-2.618**	**-90**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-40 (bg)**	**-8.078**	**-103**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-4I (bg)	0.07548	35	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-5D (bg)**	**-2.638**	**-144**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-5I (bg)**	**0.1006**	**134**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/26/2023, 11:26 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Sulfate (mg/L)	**YGWC-38**	**-141.8**	**-125**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWC-42**	**-98.05**	**-101**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWC-43	18.06	47	63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-47 (bg)**	**-15.39**	**-121**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GWA-2 (bg)**	**14.48**	**88**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-14S (bg)	-0.02207	-14	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-1D (bg)**	**0.9678**	**140**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-1I (bg)	-0.04757	-9	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-2I (bg)	1.209	77	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-30I (bg)	-0.03067	-23	-81	No	20	10	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-3D (bg)**	**0.3151**	**105**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-3I (bg)**	**0.9326**	**99**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	YGWA-17S (bg)	2.621	47	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18I (bg)	-1.319	-26	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18S (bg)	0.3933	9	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-20S (bg)	3.156	51	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**YGWA-21I (bg)**	**11.42**	**85**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWA-39 (bg)**	**29.24**	**74**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	YGWA-40 (bg)	-7.039	-48	-63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-4I (bg)	0.9669	14	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**YGWA-5D (bg)**	**-11.59**	**-90**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	YGWA-5I (bg)	-0.8043	-16	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**YGWC-38**	**-191**	**-100**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWC-41**	**-106.7**	**-106**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWC-42**	**-136.8**	**-102**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWC-43**	**57.74**	**76**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWA-47 (bg)**	**-13.38**	**-101**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	GWA-2 (bg)	17.72	66	68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-14S (bg)	0.3652	16	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-1D (bg)	2.029	32	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-1I (bg)	-1.086	-18	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-2I (bg)	-0.8152	-19	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-30I (bg)	1.488	24	81	No	20	10	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3D (bg)	0.3218	7	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3I (bg)	0.862	9	81	No	20	0	n/a	n/a	0.01	NP

Upper Tolerance Limits Summary Table

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/26/2023, 11:28 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.0047	n/a	n/a	n/a	n/a 391	n/a	n/a	87.98	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a 439	n/a	n/a	74.72	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	n/a	0.21	n/a	n/a	n/a	n/a 439	n/a	n/a	2.506	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0011	n/a	n/a	n/a	n/a 423	n/a	n/a	79.43	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.00063	n/a	n/a	n/a	n/a 423	n/a	n/a	94.56	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0093	n/a	n/a	n/a	n/a 391	n/a	n/a	80.05	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.035	n/a	n/a	n/a	n/a 433	n/a	n/a	69.05	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	6.92	n/a	n/a	n/a	n/a 418	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	n/a	0.68	n/a	n/a	n/a	n/a 438	n/a	n/a	64.16	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	n/a	0.0013	n/a	n/a	n/a	n/a 393	n/a	n/a	86.01	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	n/a	0.03	n/a	n/a	n/a	n/a 418	n/a	n/a	25.84	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	n/a	0.00064	n/a	n/a	n/a	n/a 347	n/a	n/a	91.93	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.014	n/a	n/a	n/a	n/a 382	n/a	n/a	60.99	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a 421	n/a	n/a	92.64	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a 357	n/a	n/a	97.2	n/a	n/a	NaN	NP Inter(NDs)

YATES AMA-R6 GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.0047	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.21	2
Beryllium, Total (mg/L)	0.004		0.0011	0.004
Cadmium, Total (mg/L)	0.005		0.00063	0.005
Chromium, Total (mg/L)	0.1		0.0093	0.1
Cobalt, Total (mg/L)		0.006	0.035	0.035
Combined Radium, Total (pCi/L)	5		6.92	6.92
Fluoride, Total (mg/L)	4		0.68	4
Lead, Total (mg/L)		0.015	0.0013	0.015
Lithium, Total (mg/L)		0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.00064	0.002
Molybdenum, Total (mg/L)		0.1	0.014	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**Grey cell indicates Background Limit is higher than MCL or CCR Rule Specified Level*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residual*

**GWPS = Groundwater Protection Standard*

Confidence Intervals - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/16/2023, 8:25 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	**YGWC-38**	**0.246**	**0.064**	**0.05**	**Yes**	**18**	**0.1496**	**0.08206**	**0**	**None**	**No**	**0.01**	**NP (normality)**
Selenium (mg/L)	**PZ-37**	**0.2801**	**0.2029**	**0.05**	**Yes**	**15**	**0.2415**	**0.05697**	**0**	**None**	**No**	**0.01**	**Param.**

Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/16/2023, 8:25 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	PZ-35	0.003	0.00039	0.006	No	9	0.00271	0.00087	88.89	None	No	0.002	NP (NDs)
Antimony (mg/L)	PZ-37	0.003	0.0014	0.006	No	15	0.002577	0.0008973	80	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-37D	0.003	0.0015	0.006	No	4	0.002625	0.00075	75	None	No	0.0625	NP (NDs)
Antimony (mg/L)	YAMW-1	0.025	0.00037	0.006	No	9	0.00493	0.007581	55.56	None	No	0.002	NP (NDs)
Antimony (mg/L)	YAMW-4	0.003	0.00062	0.006	No	7	0.002053	0.001191	57.14	None	No	0.008	NP (NDs)
Antimony (mg/L)	YAMW-5	0.003	0.00033	0.006	No	7	0.002619	0.001009	85.71	None	No	0.008	NP (NDs)
Antimony (mg/L)	YGWC-23S	0.003	0.00085	0.006	No	20	0.002633	0.000901	85	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-24SB	0.003	0.0009	0.006	No	19	0.002889	0.0004818	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-36A	0.0041	0.0015	0.006	No	20	0.0039	0.00582	50	None	No	0.01	NP (normality)
Antimony (mg/L)	YGWC-38	0.003	0.0015	0.006	No	17	0.002474	0.001003	76.47	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-41	0.003	0.0014	0.006	No	17	0.002906	0.0003881	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-42	0.003	0.00053	0.006	No	17	0.002855	0.0005991	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-43	0.003	0.00031	0.006	No	17	0.002842	0.0006524	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-49	0.003	0.0011	0.006	No	17	0.002743	0.0007326	88.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-35	0.005	0.00096	0.01	No	10	0.003625	0.001858	60	Kaplan-Meier	No	0.011	NP (NDs)
Arsenic (mg/L)	PZ-37	0.005	0.00094	0.01	No	15	0.002709	0.001955	40	None	No	0.01	NP (normality)
Arsenic (mg/L)	YAMW-1	0.005	0.0034	0.01	No	10	0.00457	0.0009429	80	None	No	0.011	NP (NDs)
Arsenic (mg/L)	YAMW-4	0.005	0.00079	0.01	No	7	0.003299	0.001867	42.86	None	No	0.008	NP (normality)
Arsenic (mg/L)	YAMW-5	0.003443	0.0008822	0.01	No	7	0.003379	0.001754	42.86	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	YGWC-23S	0.005	0.0025	0.01	No	22	0.004714	0.0009483	90.91	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-24SB	0.005	0.0035	0.01	No	21	0.004638	0.000962	85.71	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-36A	0.005	0.0047	0.01	No	22	0.004038	0.001789	72.73	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-38	0.0023	0.00072	0.01	No	18	0.002026	0.001701	22.22	None	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-41	0.005	0.00072	0.01	No	18	0.003062	0.002064	50	None	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-42	0.002295	0.001445	0.01	No	18	0.002471	0.001327	16.67	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	YGWC-43	0.005	0.0022	0.01	No	18	0.004039	0.001695	72.22	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-49	0.005	0.001	0.01	No	17	0.004262	0.001644	82.35	Kaplan-Meier	No	0.01	NP (NDs)
Barium (mg/L)	PZ-35	0.09056	0.03164	2	No	10	0.0611	0.03302	0	None	No	0.01	Param.
Barium (mg/L)	PZ-37	0.05259	0.03422	2	No	15	0.04341	0.01356	0	None	No	0.01	Param.
Barium (mg/L)	PZ-37D	0.033	0.013	2	No	4	0.01975	0.009069	0	None	No	0.0625	NP (selected)
Barium (mg/L)	YAMW-1	0.07559	0.03621	2	No	10	0.0559	0.02207	0	None	No	0.01	Param.
Barium (mg/L)	YAMW-2	0.009272	0.006756	2	No	7	0.008014	0.001059	0	None	No	0.01	Param.
Barium (mg/L)	YAMW-4	0.021	0.003	2	No	7	0.008614	0.008204	0	None	No	0.008	NP (normality)
Barium (mg/L)	YAMW-5	0.057	0.034	2	No	7	0.04014	0.007988	0	None	No	0.008	NP (normality)
Barium (mg/L)	YGWC-23S	0.04724	0.03277	2	No	22	0.04	0.01348	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-24SB	0.025	0.019	2	No	21	0.0215	0.004108	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-36A	0.04891	0.03307	2	No	22	0.04189	0.016	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	YGWC-38	0.02241	0.01731	2	No	18	0.01986	0.00422	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-41	0.02814	0.02032	2	No	18	0.02423	0.006464	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-42	0.04281	0.02937	2	No	18	0.03609	0.01111	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-43	0.03348	0.01907	2	No	18	0.02627	0.01191	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-49	0.07733	0.06751	2	No	17	0.07242	0.007833	0	None	No	0.01	Param.
Beryllium (mg/L)	PZ-35	0.003	0.00025	0.004	No	11	0.00092	0.001041	18.18	None	No	0.006	NP (normality)
Beryllium (mg/L)	PZ-37	0.0008051	0.0002982	0.004	No	15	0.000632	0.0004727	13.33	None	ln(x)	0.01	Param.
Beryllium (mg/L)	YAMW-1	0.0005	0.000095	0.004	No	10	0.0002913	0.000198	40	None	No	0.011	NP (normality)
Beryllium (mg/L)	YAMW-2	0.0005	0.000051	0.004	No	7	0.000186	0.0002146	28.57	None	No	0.008	NP (normality)
Beryllium (mg/L)	YAMW-5	0.0001549	0.0001016	0.004	No	8	0.0001283	0.0000251	0	None	No	0.01	Param.
Beryllium (mg/L)	YGWC-23S	0.00023	0.00009	0.004	No	22	0.0007785	0.001234	22.73	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-24SB	0.00016	0.0001	0.004	No	21	0.000315	0.0004966	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-36A	0.0003907	0.0001957	0.004	No	22	0.0003436	0.000292	4.545	None	ln(x)	0.01	Param.
Beryllium (mg/L)	YGWC-38	0.0056	0.0028	0.004	No	18	0.004228	0.001375	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-41	0.0037	0.0015	0.004	No	18	0.002633	0.001035	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-42	0.0005	0.000067	0.004	No	18	0.0003348	0.0002133	61.11	None	No	0.01	NP (NDs)
Beryllium (mg/L)	YGWC-43	0.003	0.0003	0.004	No	18	0.001234	0.00129	33.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-49	0.00015	0.0001	0.004	No	17	0.0001994	0.0003358	5.882	None	No	0.01	NP (normality)

Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/16/2023, 8:25 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cadmium (mg/L)	PZ-35	0.0005	0.00016	0.005	No	10	0.000402	0.0001613	70	None	No	0.011	NP (NDs)
Cadmium (mg/L)	PZ-37	0.000768	0.000396	0.005	No	15	0.000582	0.0002745	13.33	None	No	0.01	Param.
Cadmium (mg/L)	YAMW-1	0.0005	0.00014	0.005	No	10	0.0003	0.0001742	40	None	No	0.011	NP (normality)
Cadmium (mg/L)	YAMW-2	0.0005	0.00015	0.005	No	7	0.00045	0.0001323	85.71	None	No	0.008	NP (NDs)
Cadmium (mg/L)	YAMW-5	0.00046	0.00018	0.005	No	7	0.0002471	0.00009725	0	None	No	0.008	NP (normality)
Cadmium (mg/L)	YGWC-23S	0.0005	0.00007	0.005	No	22	0.0004805	0.00009168	95.45	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-36A	0.0005	0.00018	0.005	No	22	0.00029	0.0001654	36.36	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-38	0.0029	0.0011	0.005	No	18	0.00204	0.0008076	0	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-41	0.0005	0.00017	0.005	No	18	0.0003144	0.0001576	38.89	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-42	0.0005	0.0002	0.005	No	18	0.0003839	0.0001649	50	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-49	0.0005	0.00007	0.005	No	17	0.0004747	0.0001043	94.12	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-35	0.005	0.0006	0.1	No	8	0.002464	0.002127	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	PZ-37	0.005	0.0019	0.1	No	15	0.004307	0.001446	80	None	No	0.01	NP (NDs)
Chromium (mg/L)	YAMW-1	0.005	0.00058	0.1	No	8	0.002422	0.002145	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	YAMW-2	0.005	0.00071	0.1	No	7	0.003001	0.002004	42.86	None	No	0.008	NP (normality)
Chromium (mg/L)	YAMW-4	0.005	0.00057	0.1	No	7	0.004367	0.001674	85.71	None	No	0.008	NP (NDs)
Chromium (mg/L)	YAMW-5	0.005	0.0016	0.1	No	7	0.004514	0.001285	85.71	None	No	0.008	NP (NDs)
Chromium (mg/L)	YGWC-23S	0.005	0.00086	0.1	No	18	0.003474	0.001985	61.11	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-24SB	0.005	0.0011	0.1	No	17	0.004302	0.001554	82.35	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-36A	0.005	0.0035	0.1	No	18	0.004249	0.001542	77.78	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-38	0.005	0.00065	0.1	No	18	0.004508	0.001431	88.89	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-41	0.005	0.00039	0.1	No	18	0.004744	0.001087	94.44	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-42	0.005	0.0013	0.1	No	18	0.004296	0.001627	83.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-43	0.005	0.00074	0.1	No	18	0.004032	0.001865	77.78	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-49	0.002	0.0016	0.1	No	16	0.001975	0.0008434	6.25	None	No	0.01	NP (normality)
Cobalt (mg/L)	PZ-35	0.005	0.005	0.035	No	10	0.00509	0.0002846	90	None	No	0.011	NP (NDs)
Cobalt (mg/L)	PZ-37	0.01012	0.003723	0.035	No	15	0.007327	0.004972	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YAMW-1	0.0223	0.00592	0.035	No	11	0.01424	0.01018	18.18	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	YAMW-2	0.00446	0.0003166	0.035	No	7	0.002153	0.002202	14.29	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YAMW-4	0.0008857	0.0003514	0.035	No	7	0.0006186	0.0002249	0	None	No	0.01	Param.
Cobalt (mg/L)	YAMW-5	0.005	0.00077	0.035	No	7	0.004396	0.001599	85.71	None	No	0.008	NP (NDs)
Cobalt (mg/L)	YGWC-36A	0.005	0.00086	0.035	No	22	0.003986	0.001915	77.27	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-41	0.005	0.0011	0.035	No	18	0.004022	0.00189	77.78	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-42	0.002174	0.001682	0.035	No	18	0.001928	0.000407	5.556	None	No	0.01	Param.
Cobalt (mg/L)	YGWC-43	0.005	0.0006	0.035	No	18	0.002886	0.00189	38.89	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-49	0.005	0.0008	0.035	No	17	0.003971	0.001914	76.47	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	PZ-35	0.9597	0.2765	6.92	No	9	0.6181	0.3538	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-37	1.896	1.126	6.92	No	15	1.511	0.568	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-37D	3.18	0.815	6.92	No	4	2.226	1.003	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	PZ-52D	1.52	0.218	6.92	No	4	0.671	0.613	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	YAMW-1	0.6923	0.3112	6.92	No	9	0.5018	0.1974	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YAMW-2	0.959	0	6.92	No	7	0.4222	0.3711	0	None	No	0.008	NP (selected)
Combined Radium 226 + 228 (pCi/L)	YAMW-4	1.111	0.1315	6.92	No	7	0.6214	0.4125	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YAMW-5	1.335	0.5175	6.92	No	7	0.9264	0.3443	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-23S	0.7919	0.3878	6.92	No	22	0.5899	0.3764	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-24SB	0.7571	0.4643	6.92	No	21	0.6107	0.2653	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-36A	0.982	0.4999	6.92	No	22	0.741	0.449	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-38	1.163	0.5665	6.92	No	18	0.8648	0.4931	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-41	1.183	0.5318	6.92	No	18	0.9081	0.5677	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-42	2.361	0.9873	6.92	No	18	1.791	1.204	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-43	3.858	1.728	6.92	No	18	2.793	1.76	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-49	1.044	0.4995	6.92	No	17	0.7719	0.4349	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-37	0.26	0.1	4	No	15	0.1567	0.1072	73.33	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-37D	0.4234	0.0116	4	No	4	0.2175	0.09069	0	None	No	0.01	Param.
Fluoride (mg/L)	YAMW-2	0.1	0.061	4	No	7	0.08914	0.01855	71.43	None	No	0.008	NP (NDs)

Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/16/2023, 8:25 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	YAMW-4	0.1107	0.06478	4	No	7	0.1053	0.02559	42.86	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YAMW-5	0.1	0.05	4	No	7	0.08643	0.02322	71.43	Kaplan-Meier	No	0.008	NP (NDs)
Fluoride (mg/L)	YGWC-23S	0.12	0.057	4	No	23	0.09374	0.02005	82.61	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-24SB	0.1	0.098	4	No	22	0.09464	0.01727	86.36	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-36A	0.1	0.094	4	No	23	0.09374	0.02997	69.57	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-38	0.21	0.034	4	No	19	0.1486	0.107	68.42	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-41	0.11	0.1	4	No	19	0.1005	0.002294	89.47	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-42	0.1	0.06	4	No	19	0.08547	0.0247	68.42	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-43	0.1061	0.06255	4	No	19	0.1037	0.04885	21.05	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride (mg/L)	YGWC-49	0.14	0.09	4	No	18	0.09944	0.02363	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Lead (mg/L)	PZ-35	0.001	0.000087	0.015	No	9	0.0008041	0.000389	77.78	None	No	0.002	NP (NDs)
Lead (mg/L)	PZ-37	0.001	0.0001	0.015	No	15	0.0007115	0.0004235	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YAMW-1	0.001	0.00019	0.015	No	9	0.00091	0.00027	88.89	None	No	0.002	NP (NDs)
Lead (mg/L)	YAMW-2	0.001	0.00008	0.015	No	7	0.0007414	0.0004417	71.43	None	No	0.008	NP (NDs)
Lead (mg/L)	YAMW-4	0.001	0.000096	0.015	No	7	0.0007023	0.000393	57.14	None	No	0.008	NP (NDs)
Lead (mg/L)	YAMW-5	0.001	0.000041	0.015	No	7	0.0006034	0.000495	57.14	None	No	0.008	NP (NDs)
Lead (mg/L)	YGWC-23S	0.001	0.00044	0.015	No	20	0.0008413	0.0003325	80	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-24SB	0.001	0.00036	0.015	No	19	0.0009165	0.0002554	89.47	Kaplan-Meier	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-36A	0.0004641	0.0001697	0.015	No	20	0.0005965	0.0004298	30	Kaplan-Meier	sqrt(x)	0.01	Param.
Lead (mg/L)	YGWC-38	0.001	0.0001	0.015	No	18	0.00085	0.0003451	83.33	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-41	0.0011	0.0002	0.015	No	18	0.0008087	0.0003836	72.22	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-42	0.001	0.0002	0.015	No	18	0.0007995	0.0003871	77.78	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-43	0.001	0.00008	0.015	No	18	0.0008975	0.0002983	88.89	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-49	0.001	0.000059	0.015	No	17	0.0009446	0.0002282	94.12	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-35	0.011	0.0011	0.04	No	10	0.00399	0.004873	10	None	No	0.011	NP (normality)
Lithium (mg/L)	PZ-37	0.032	0.017	0.04	No	15	0.03158	0.02645	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-37D	0.0167	0.0007531	0.04	No	4	0.008725	0.003511	0	None	No	0.01	Param.
Lithium (mg/L)	YAMW-1	0.02048	0.007982	0.04	No	10	0.01423	0.007003	10	None	No	0.01	Param.
Lithium (mg/L)	YAMW-3	0.05992	0.03258	0.04	No	4	0.04625	0.006021	0	None	No	0.01	Param.
Lithium (mg/L)	YAMW-4	0.03625	0.02086	0.04	No	7	0.02886	0.006986	0	None	x^2	0.01	Param.
Lithium (mg/L)	YAMW-5	0.01608	0.01306	0.04	No	7	0.01457	0.001272	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-23S	0.002681	0.002065	0.04	No	22	0.002373	0.0005742	4.545	None	No	0.01	Param.
Lithium (mg/L)	YGWC-36A	0.005916	0.002611	0.04	No	22	0.004649	0.003238	4.545	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	YGWC-38	0.008605	0.007139	0.04	No	18	0.007872	0.001211	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-41	0.0043	0.0021	0.04	No	18	0.004378	0.005232	5.556	None	No	0.01	NP (normality)
Lithium (mg/L)	YGWC-42	0.04908	0.03408	0.04	No	18	0.04158	0.01239	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-43	0.01791	0.01204	0.04	No	18	0.01497	0.00485	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-49	0.003802	0.003463	0.04	No	17	0.003635	0.0002737	0	None	sqrt(x)	0.01	Param.
Mercury (mg/L)	PZ-37	0.0002	0.00019	0.002	No	15	0.00019	0.00003606	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-23S	0.0002	0.00015	0.002	No	17	0.0001911	0.00002686	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-38	0.0002	0.00008	0.002	No	15	0.0001811	0.00005045	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-41	0.0002	0.00006	0.002	No	15	0.0001907	0.00003615	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-42	0.0002	0.000048	0.002	No	15	0.0001899	0.00003925	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-43	0.0002	0.00009	0.002	No	15	0.0001828	0.00004596	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-49	0.0002	0.00014	0.002	No	14	0.0001858	0.00003931	85.71	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-35	0.01	0.0019	0.1	No	8	0.008987	0.002864	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	PZ-37	0.01	0.0015	0.1	No	15	0.005607	0.004265	46.67	None	No	0.01	NP (normality)
Molybdenum (mg/L)	PZ-37D	0.0059	0.0018	0.1	No	4	0.00345	0.001816	0	None	No	0.0625	NP (selected)
Molybdenum (mg/L)	YAMW-1	0.00368	0.001155	0.1	No	8	0.005249	0.004059	37.5	Kaplan-Meier	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	YAMW-4	0.008272	0.005785	0.1	No	7	0.007029	0.001047	0	None	No	0.01	Param.
Molybdenum (mg/L)	YGWC-36A	0.01	0.0027	0.1	No	18	0.007722	0.003508	66.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-42	0.01	0.00081	0.1	No	18	0.00426	0.004226	33.33	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-43	0.01	0.0012	0.1	No	18	0.005039	0.004227	38.89	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-49	0.01	0.0007	0.1	No	16	0.009419	0.002325	93.75	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-35	0.005	0.003	0.05	No	10	0.0042	0.001195	60	None	No	0.011	NP (NDs)

Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/16/2023, 8:25 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	**PZ-37**	**0.2801**	**0.2029**	**0.05**	**Yes**	**15**	**0.2415**	**0.05697**	**0**	**None**	**No**	**0.01**	**Param.**
Selenium (mg/L)	YAMW-1	0.005	0.0027	0.05	No	10	0.00422	0.001164	50	None	No	0.011	NP (normality)
Selenium (mg/L)	YAMW-4	0.02008	0.001939	0.05	No	8	0.01322	0.008018	25	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	YAMW-5	0.06099	0.04008	0.05	No	8	0.0505	0.01135	0	None	x^2	0.01	Param.
Selenium (mg/L)	YGWC-23S	0.03882	0.02843	0.05	No	22	0.03362	0.009677	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-36A	0.005	0.002	0.05	No	22	0.003477	0.001403	40.91	None	No	0.01	NP (normality)
Selenium (mg/L)	**YGWC-38**	**0.246**	**0.064**	**0.05**	**Yes**	**18**	**0.1496**	**0.08206**	**0**	**None**	**No**	**0.01**	**NP (normality)**
Selenium (mg/L)	YGWC-41	0.067	0.031	0.05	No	18	0.04877	0.01783	0	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-42	0.05382	0.04031	0.05	No	18	0.04706	0.01116	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-49	0.008439	0.006573	0.05	No	17	0.007506	0.001489	5.882	None	No	0.01	Param.
Thallium (mg/L)	YGWC-49	0.001	0.00009	0.002	No	15	0.0009393	0.000235	93.33	None	No	0.01	NP (NDs)

Appendix IV Trend Tests - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/26/2023, 11:42 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Selenium (mg/L)	**YGWA-17S (bg)**	**0**	**106**	**92**	**Yes**	**22**	**72.73**	**n/a**	**n/a**	**0.01**	**NP**
Selenium (mg/L)	**YGWC-38**	**-0.04789**	**-138**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix IV Trend Tests - All Results

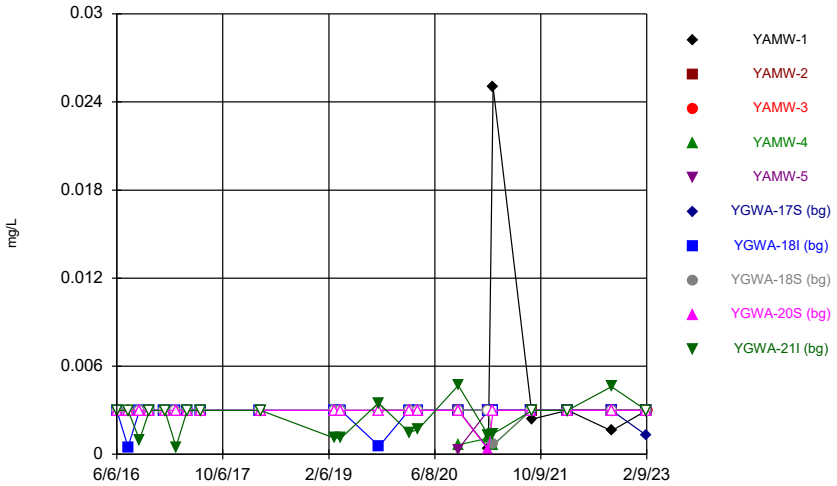
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/26/2023, 11:42 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Selenium (mg/L)	**YGWA-17S (bg)**	**0**	**106**	**92**	**Yes**	**22**	**72.73**	**n/a**	**n/a**	**0.01**	**NP**
Selenium (mg/L)	YGWA-18I (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-18S (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-20S (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-21I (bg)	0	41	98	No	23	91.3	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-39 (bg)	0	4	74	No	19	94.74	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-40 (bg)	0	-25	-74	No	19	42.11	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-4I (bg)	0	7	98	No	23	91.3	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-5D (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-5I (bg)	0	20	98	No	23	95.65	n/a	n/a	0.01	NP
Selenium (mg/L)	**YGWC-38**	**-0.04789**	**-138**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Selenium (mg/L)	YGWA-47 (bg)	0	21	48	No	14	85.71	n/a	n/a	0.01	NP
Selenium (mg/L)	GWA-2 (bg)	0	0	214	No	39	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-14S (bg)	0	54	87	No	21	71.43	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-1D (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-1I (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-2I (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-30I (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-3D (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-3I (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	PZ-37	-0.01245	-29	-53	No	15	0	n/a	n/a	0.01	NP

FIGURE A.

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

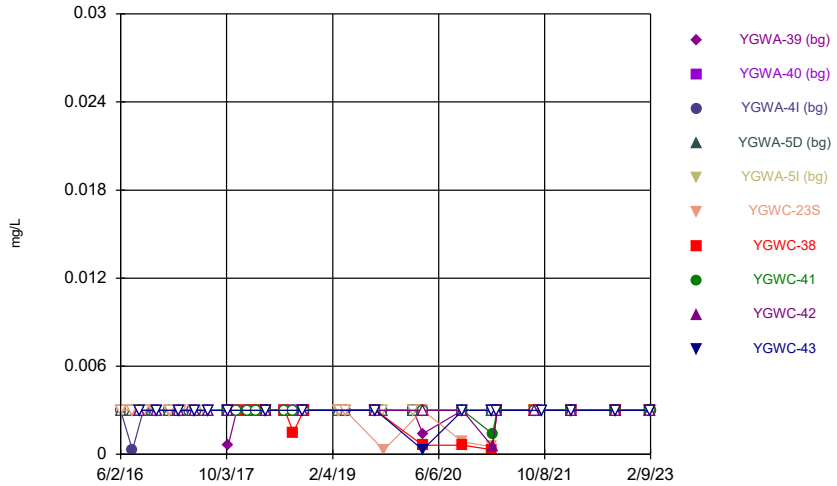
Time Series



Constituent: Antimony Analysis Run 4/26/2023 11:03 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

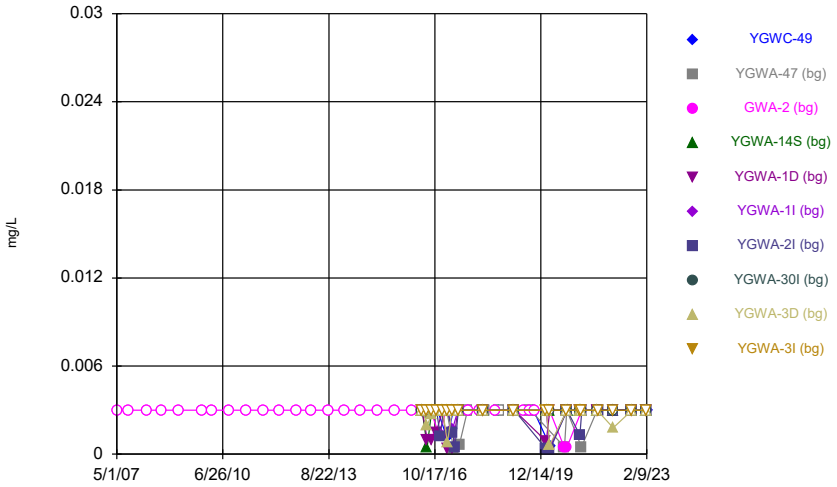
Time Series



Constituent: Antimony Analysis Run 4/26/2023 11:03 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

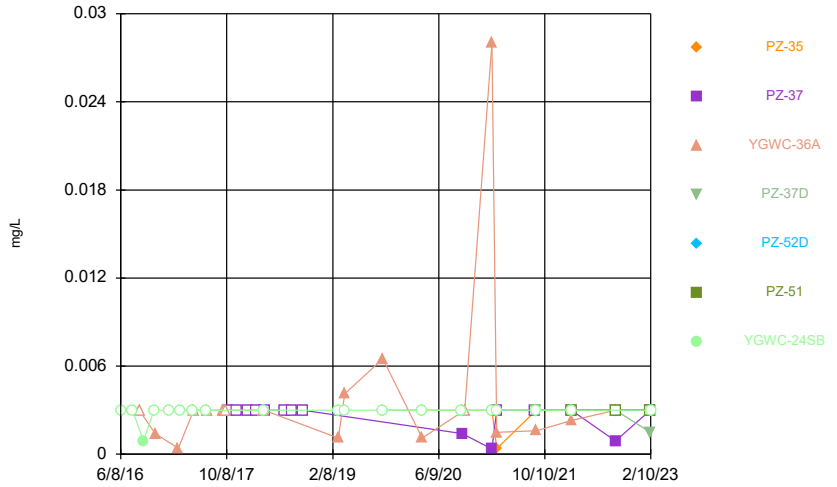
Time Series



Constituent: Antimony Analysis Run 4/26/2023 11:03 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

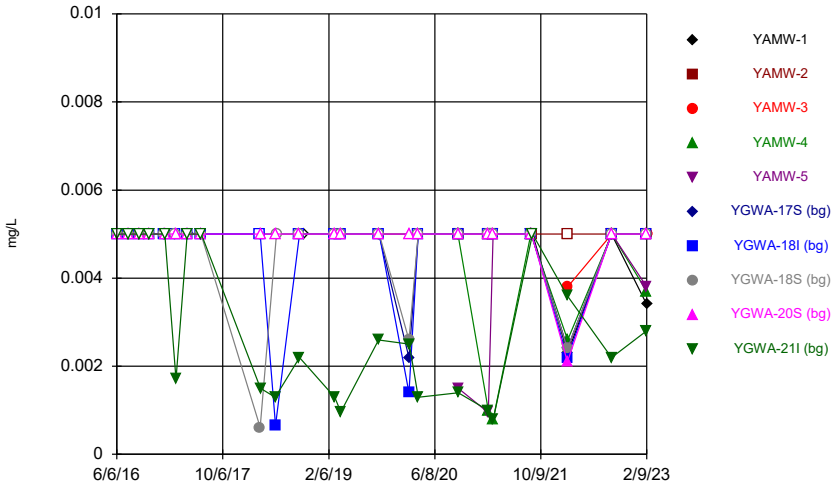
Time Series



Constituent: Antimony Analysis Run 4/26/2023 11:03 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

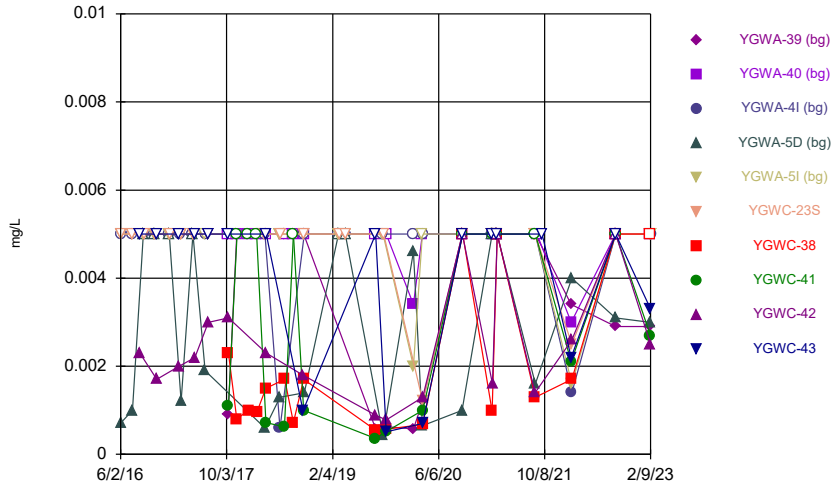
Time Series



Constituent: Arsenic Analysis Run 4/26/2023 11:03 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

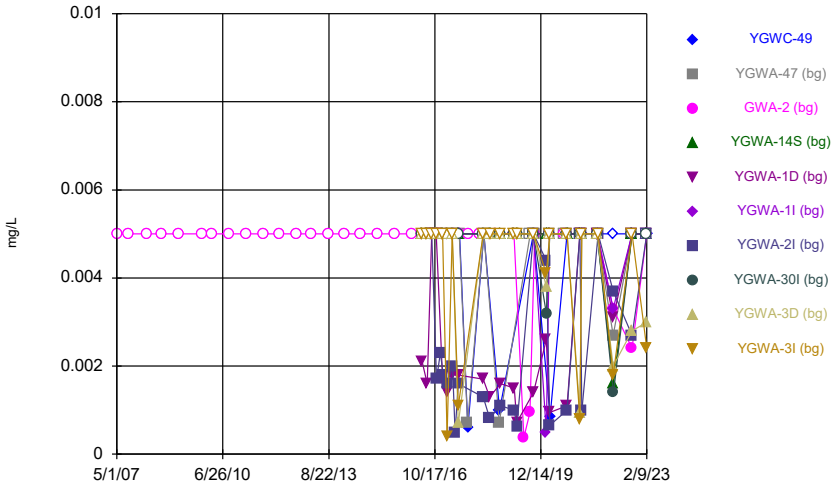
Time Series



Constituent: Arsenic Analysis Run 4/26/2023 11:03 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

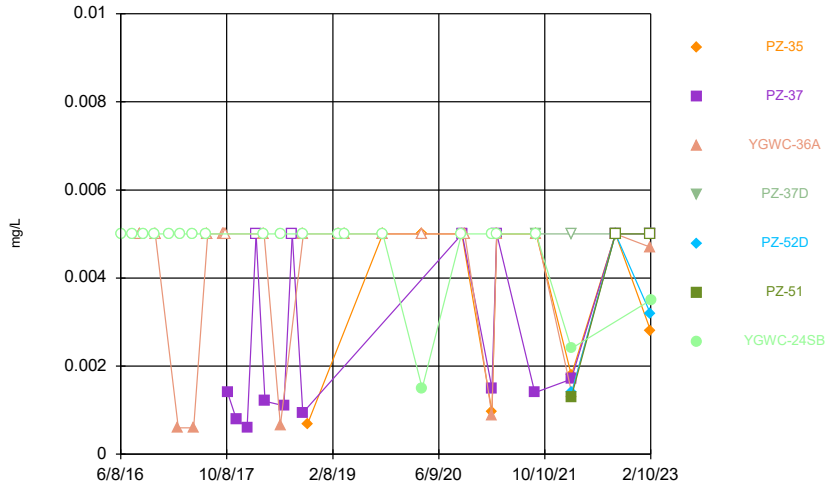
Time Series



Constituent: Arsenic Analysis Run 4/26/2023 11:03 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

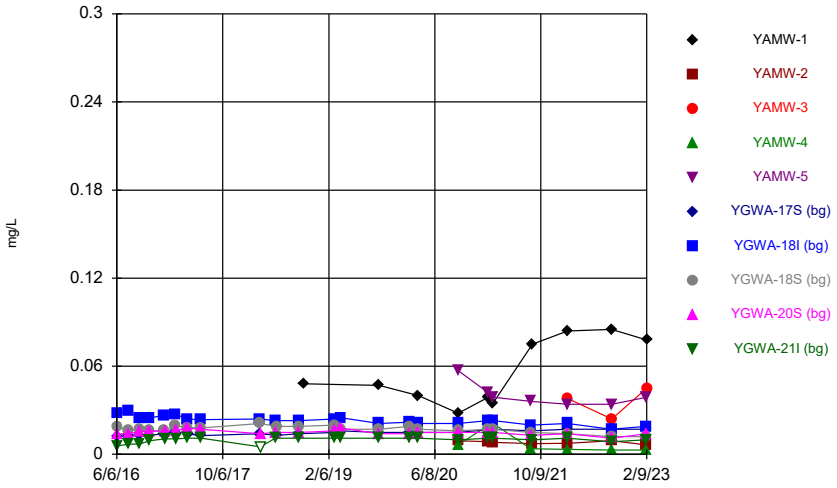
Time Series



Constituent: Arsenic Analysis Run 4/26/2023 11:03 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

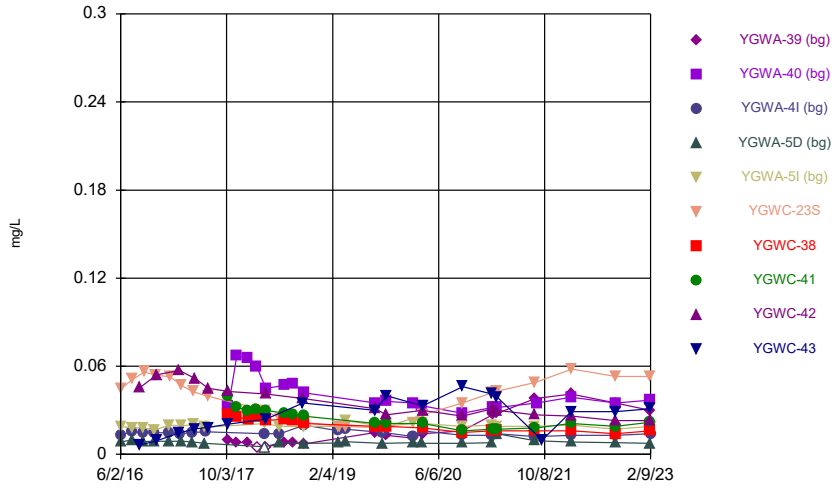
Time Series



Constituent: Barium Analysis Run 4/26/2023 11:03 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

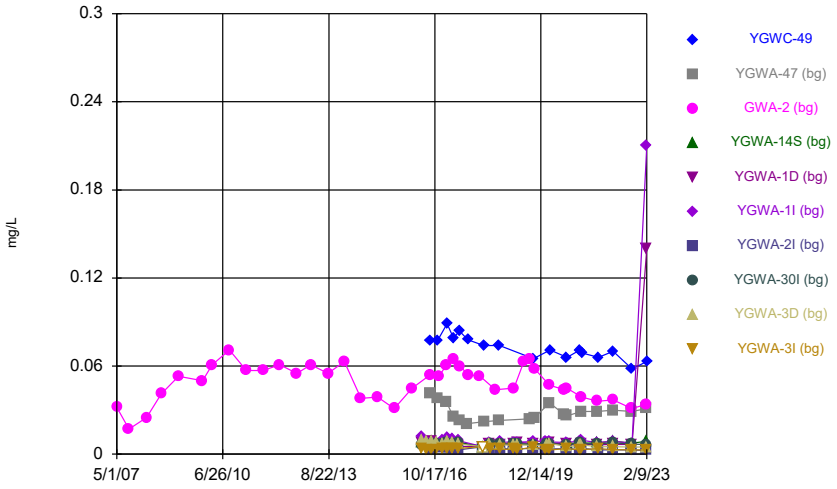
Time Series



Constituent: Barium Analysis Run 4/26/2023 11:03 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

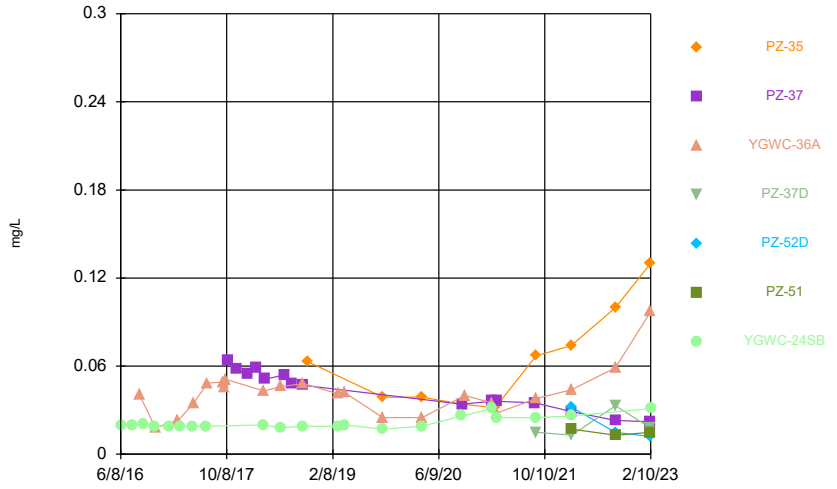
Time Series



Constituent: Barium Analysis Run 4/26/2023 11:03 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

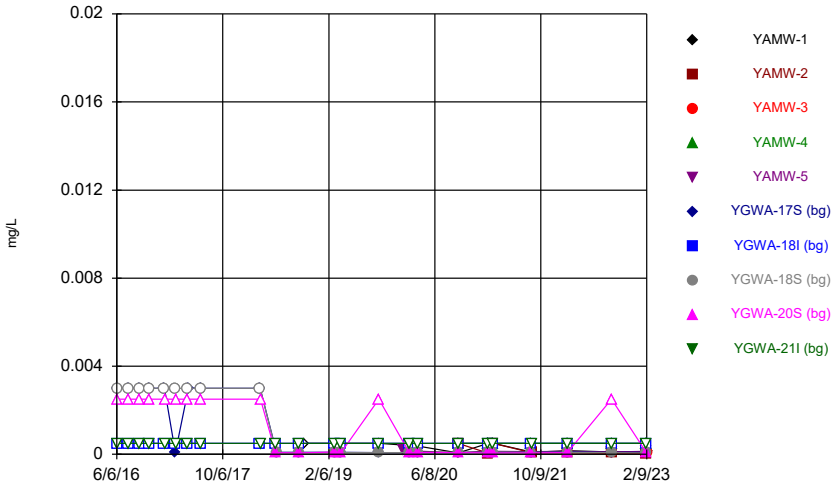
Time Series



Constituent: Barium Analysis Run 4/26/2023 11:03 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

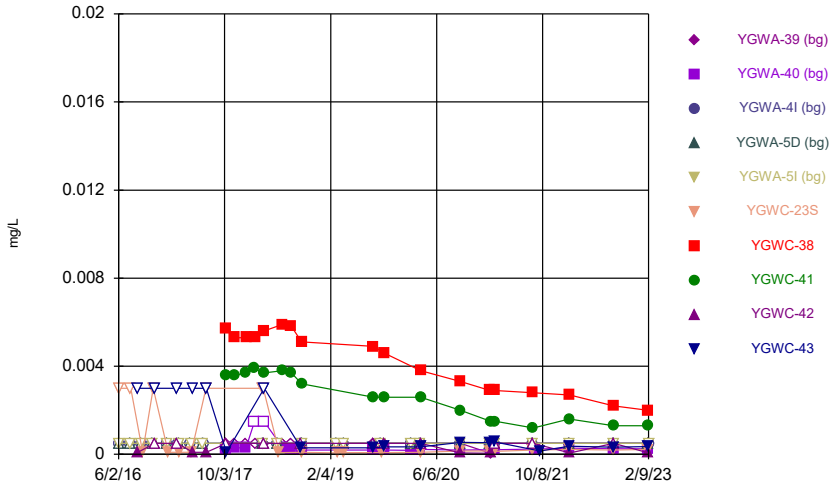
Time Series



Constituent: Beryllium Analysis Run 4/26/2023 11:03 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

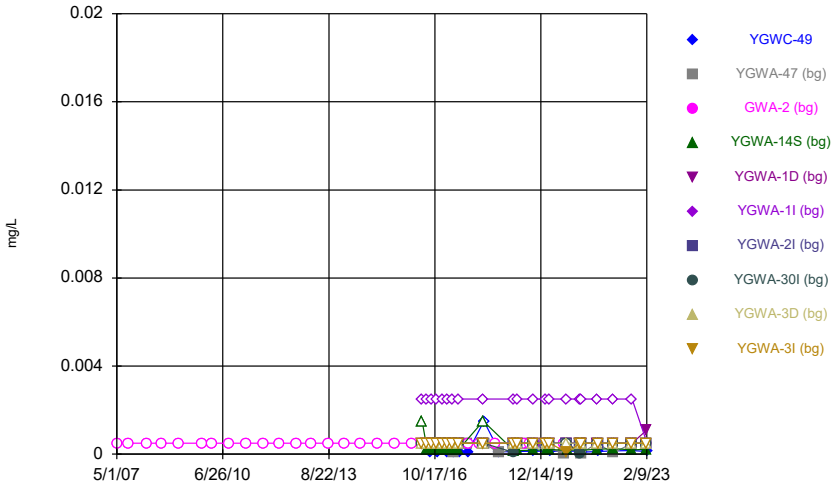
Time Series



Constituent: Beryllium Analysis Run 4/26/2023 11:03 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

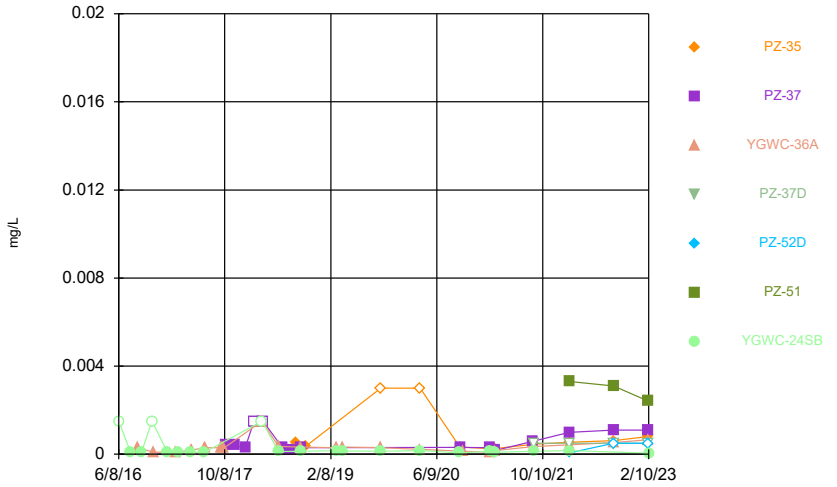
Time Series



Constituent: Beryllium Analysis Run 4/26/2023 11:03 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

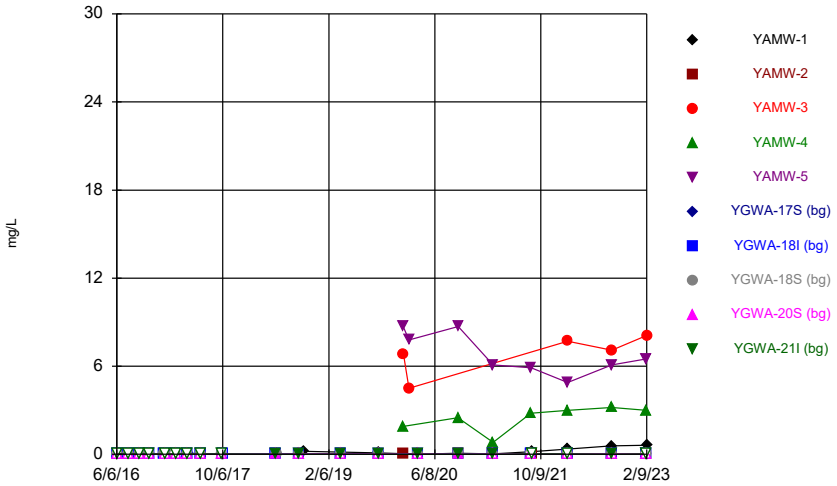
Time Series



Constituent: Beryllium Analysis Run 4/26/2023 11:03 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

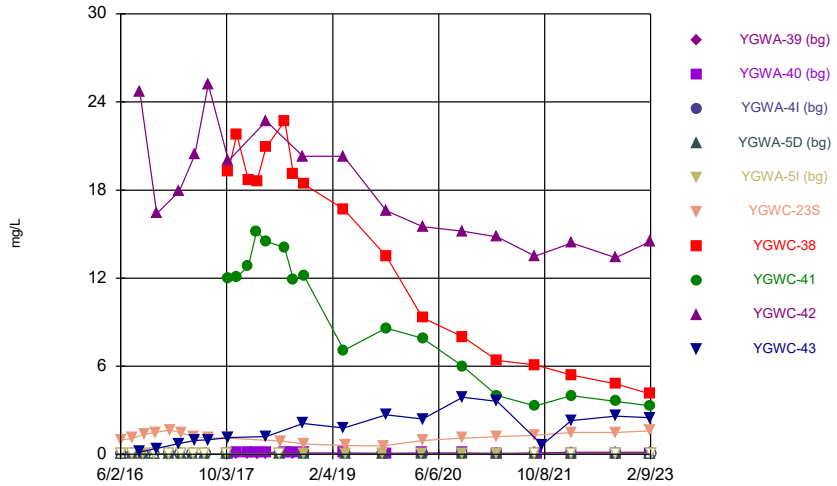
Time Series



Constituent: Boron Analysis Run 4/26/2023 11:03 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

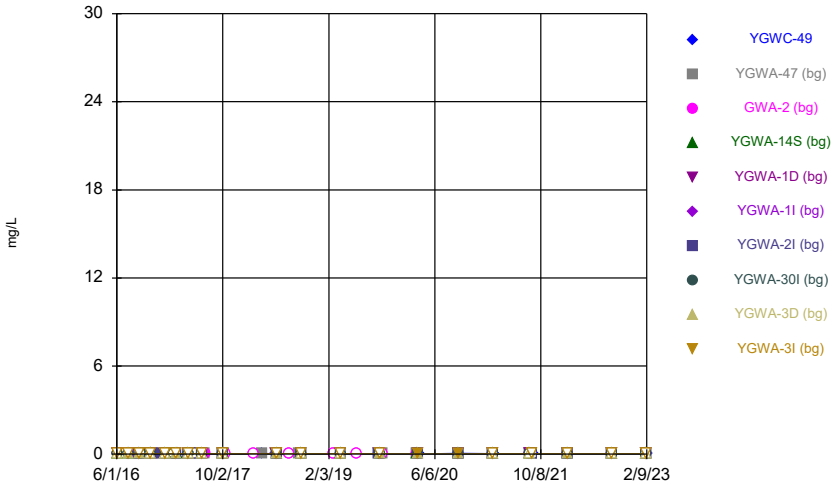
Time Series



Constituent: Boron Analysis Run 4/26/2023 11:03 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

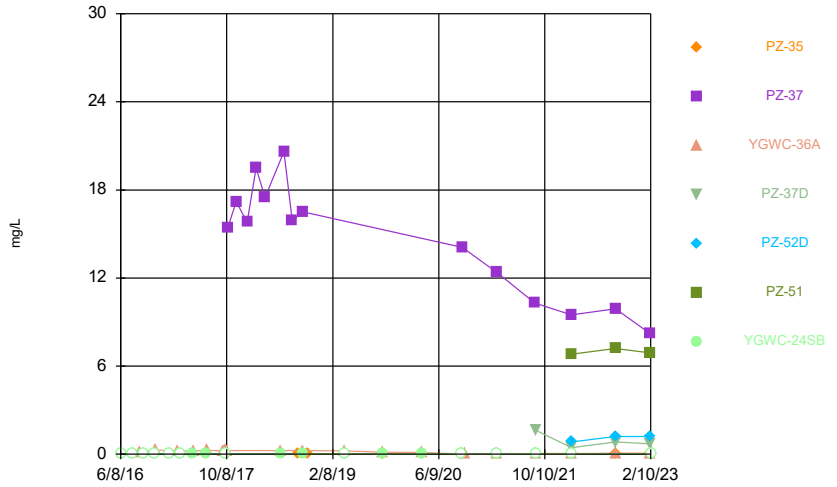
Time Series



Constituent: Boron Analysis Run 4/26/2023 11:03 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

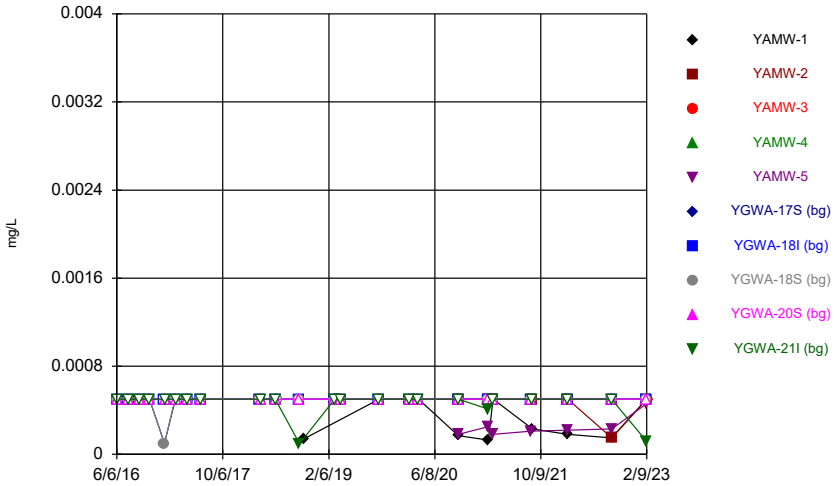
Time Series



Constituent: Boron Analysis Run 4/26/2023 11:03 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

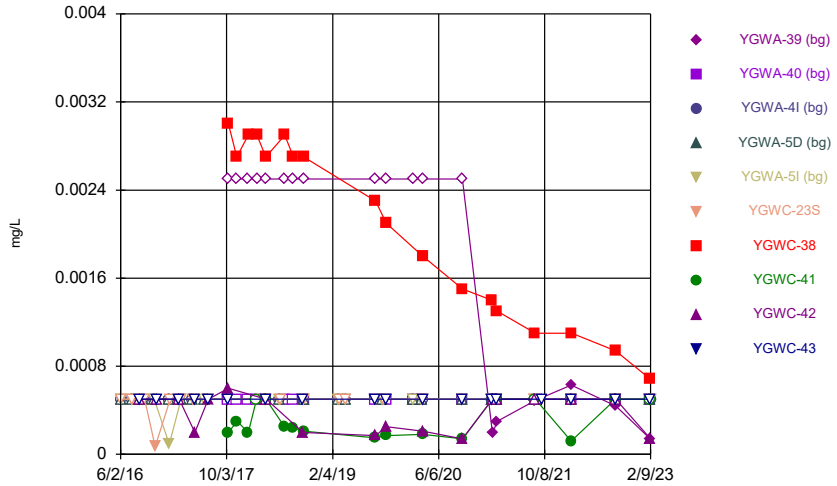
Time Series



Constituent: Cadmium Analysis Run 4/26/2023 11:03 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

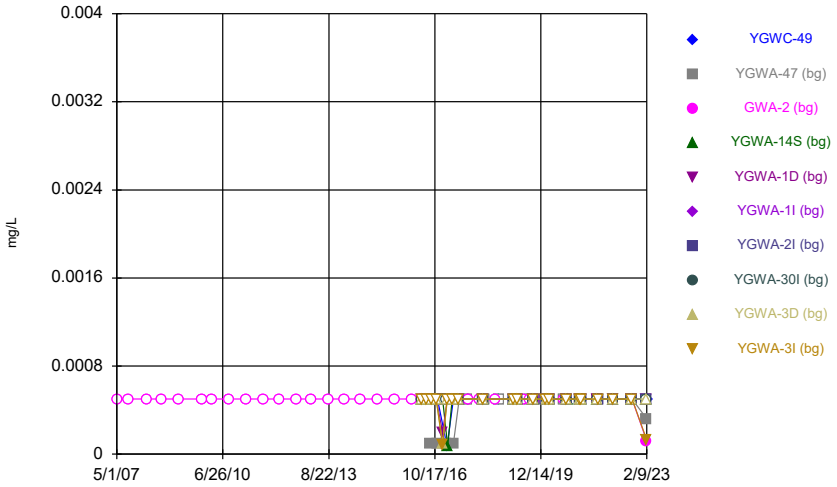
Time Series



Constituent: Cadmium Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

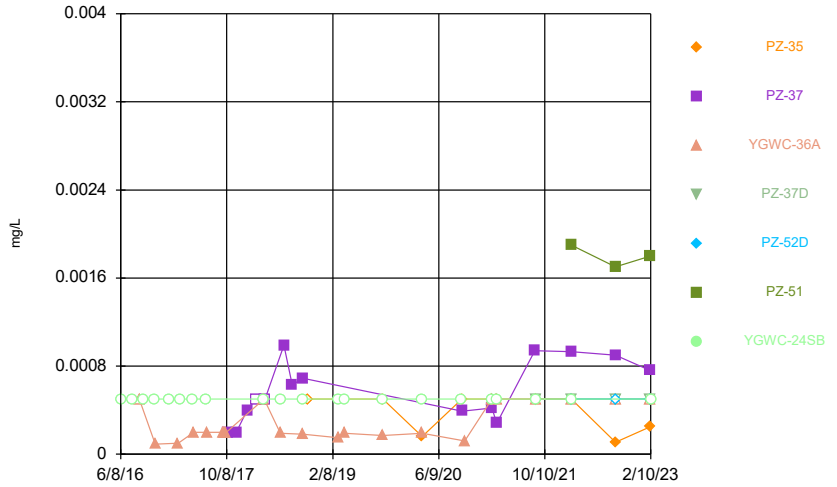
Time Series



Constituent: Cadmium Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

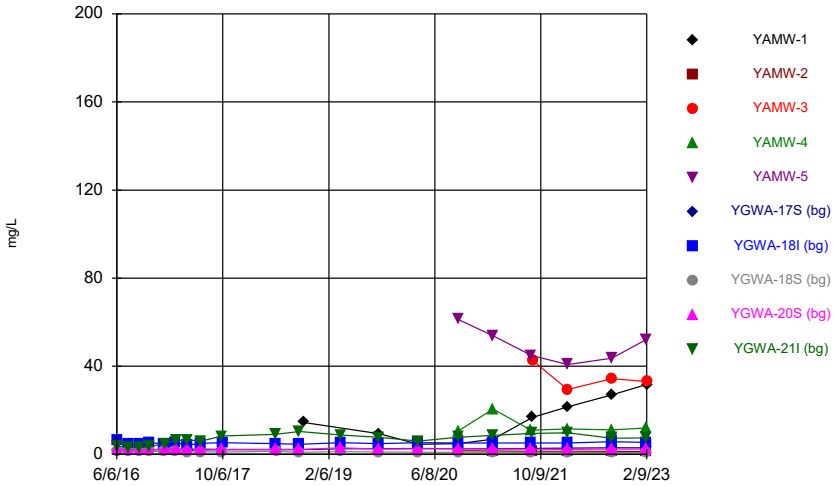
Time Series



Constituent: Cadmium Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Time Series



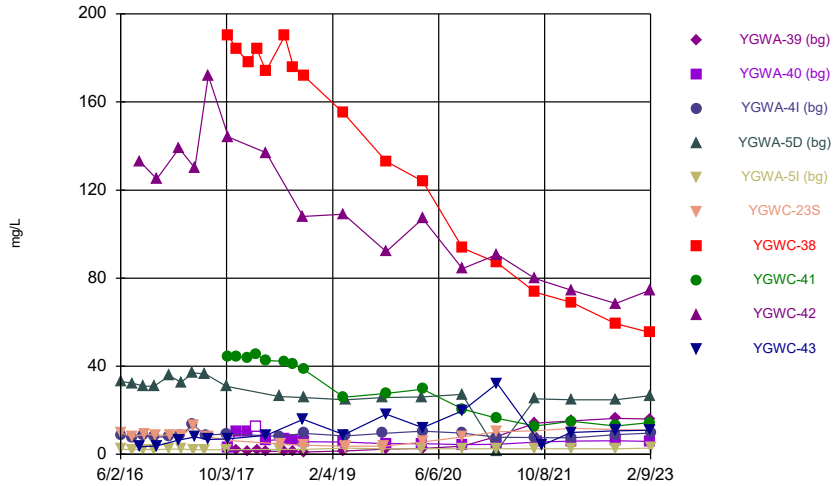
Constituent: Calcium Analysis Run 4/26/2023 11:04 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series



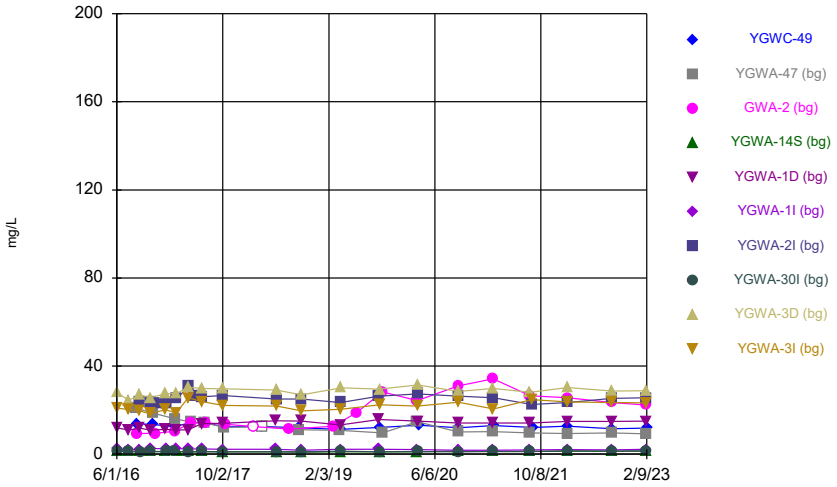
Constituent: Calcium Analysis Run 4/26/2023 11:04 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series

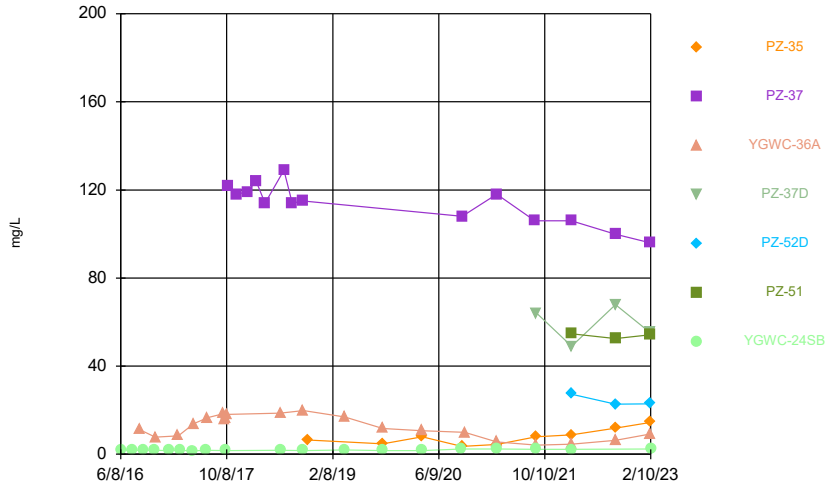


Constituent: Calcium Analysis Run 4/26/2023 11:04 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Time Series

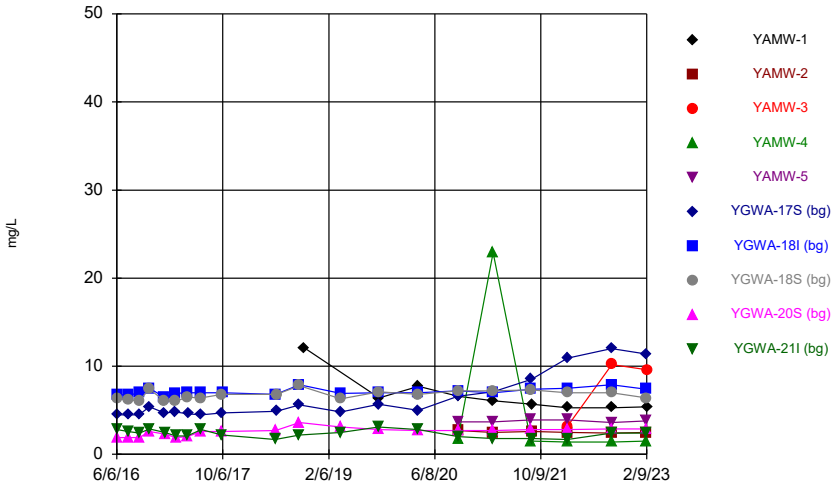


Constituent: Calcium Analysis Run 4/26/2023 11:04 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Time Series

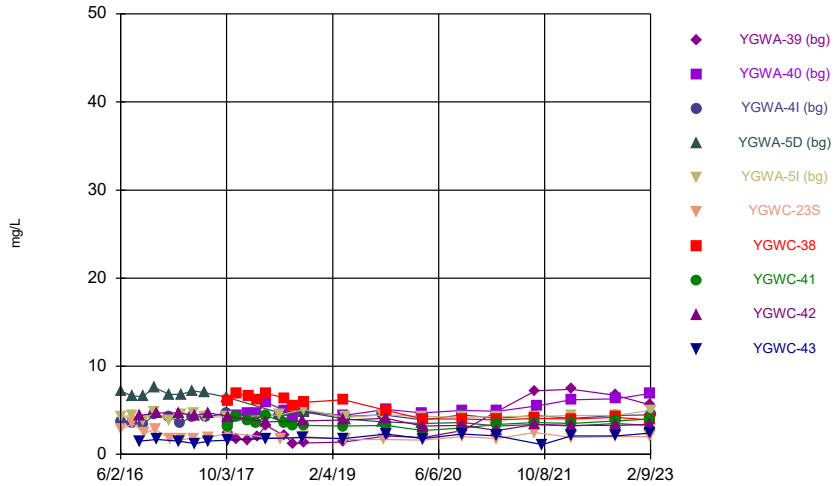


Constituent: Chloride Analysis Run 4/26/2023 11:04 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Time Series

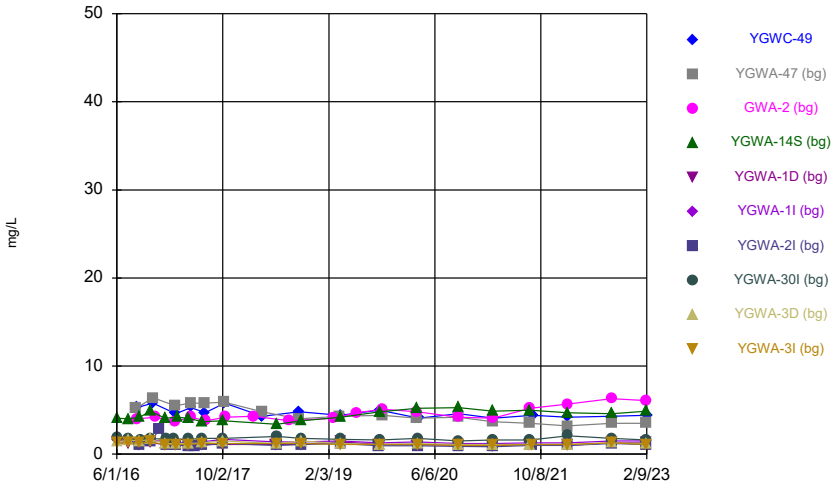


Constituent: Chloride Analysis Run 4/26/2023 11:04 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Time Series

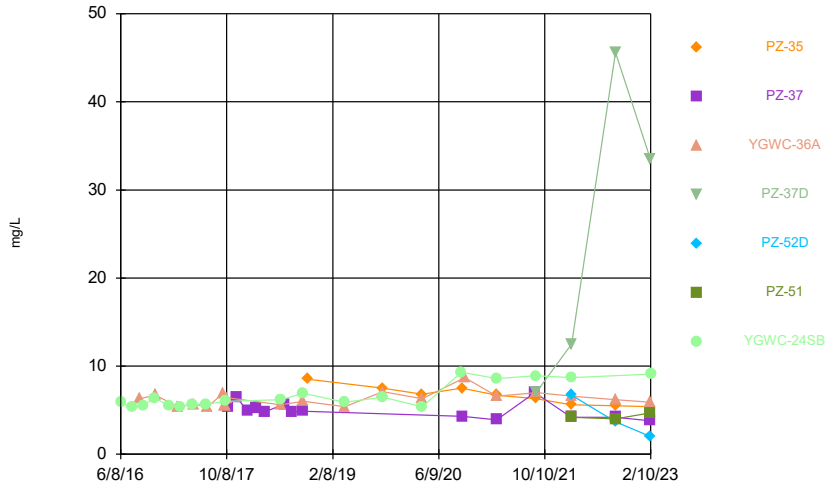


Constituent: Chloride Analysis Run 4/26/2023 11:04 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Time Series

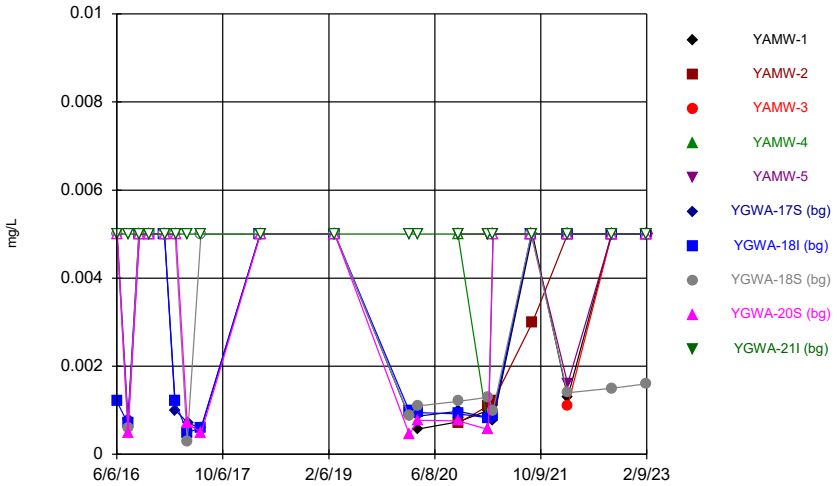


Constituent: Chloride Analysis Run 4/26/2023 11:04 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

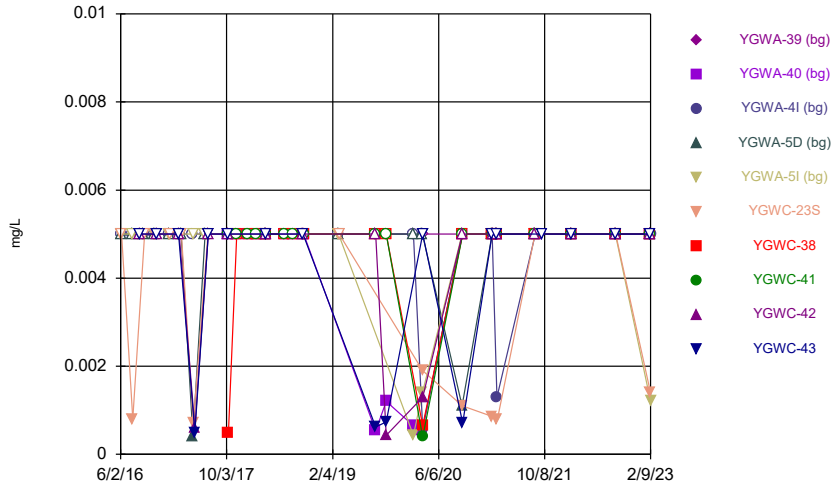
Time Series



Constituent: Chromium Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

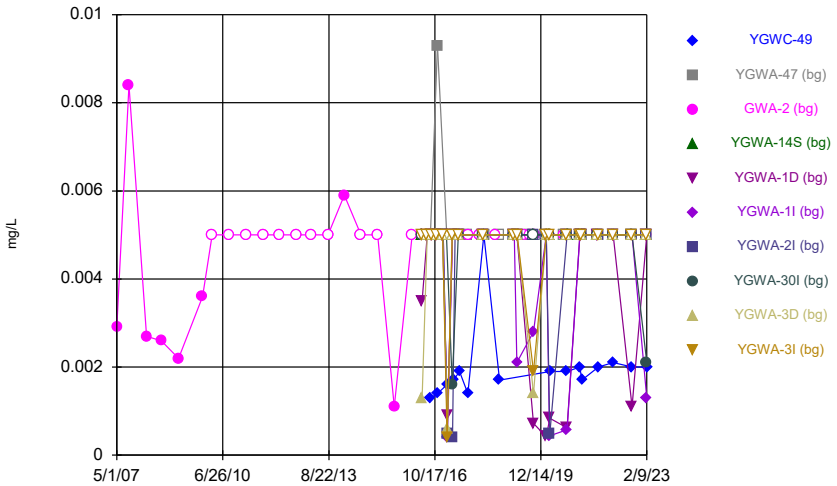
Time Series



Constituent: Chromium Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

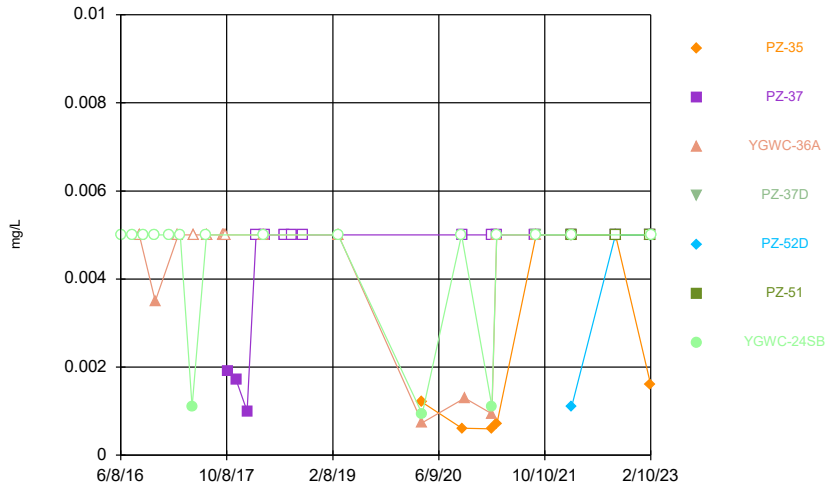
Time Series



Constituent: Chromium Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

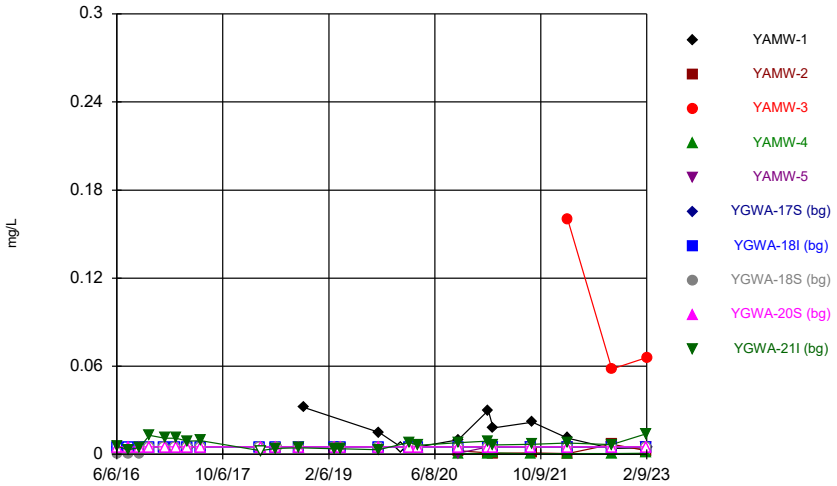
Time Series



Constituent: Chromium Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

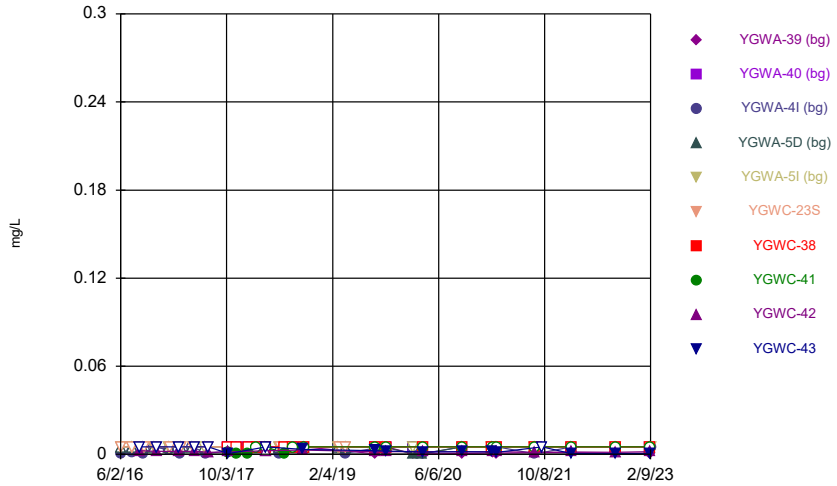
Time Series



Constituent: Cobalt Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

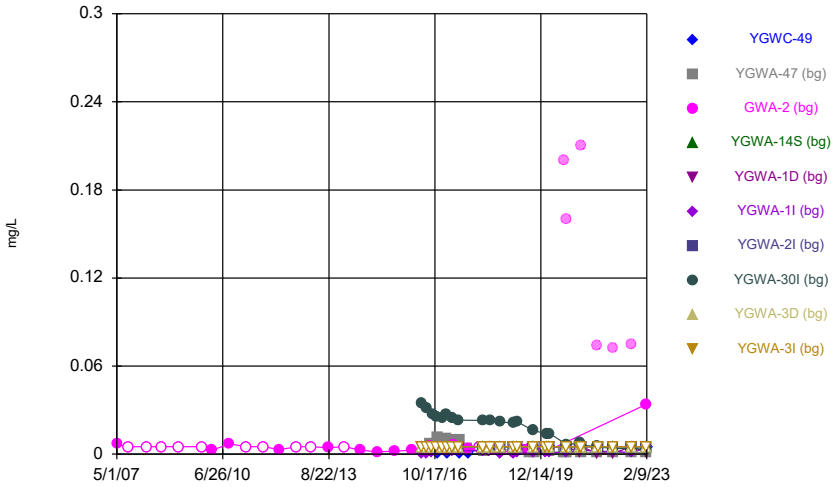
Time Series



Constituent: Cobalt Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

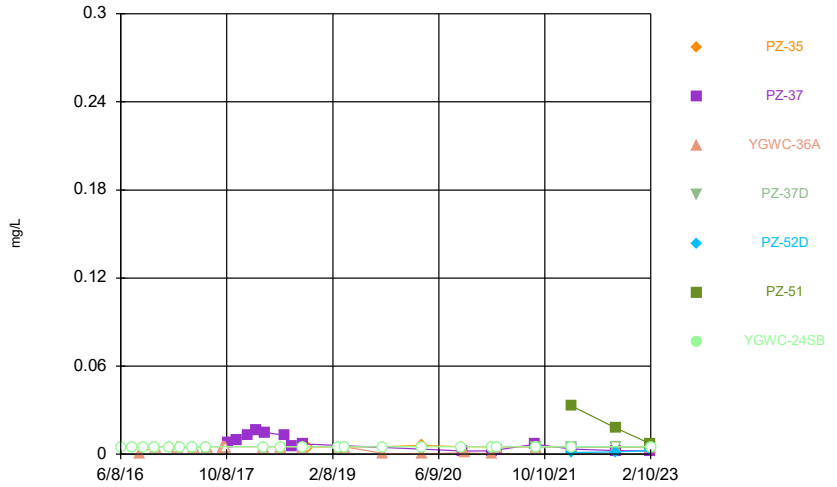
Time Series



Constituent: Cobalt Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

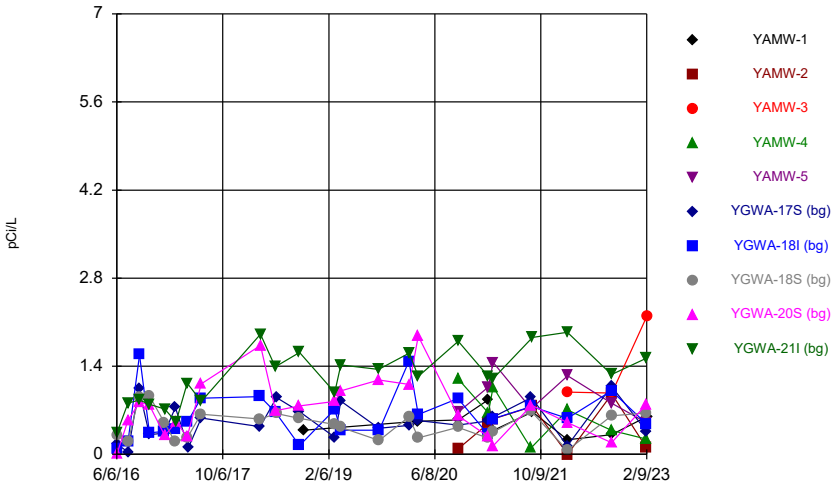
Time Series



Constituent: Cobalt Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Time Series

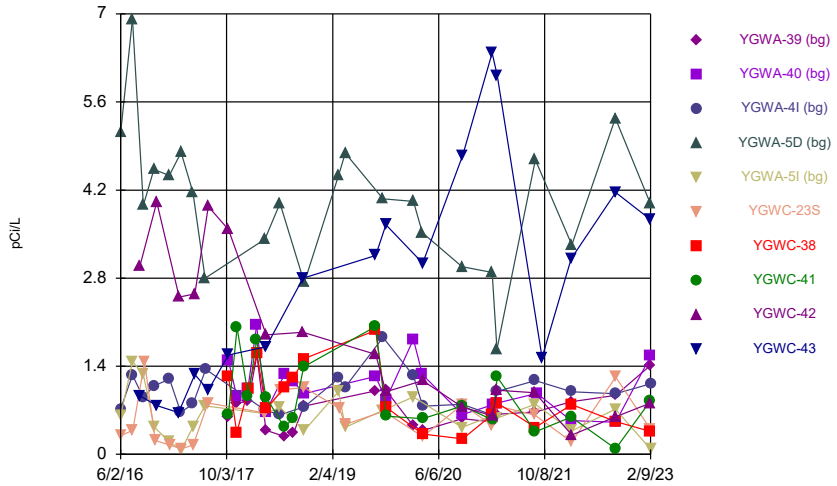


Constituent: Combined Radium 226 + 228 Analysis Run 4/26/2023 11:04 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Time Series

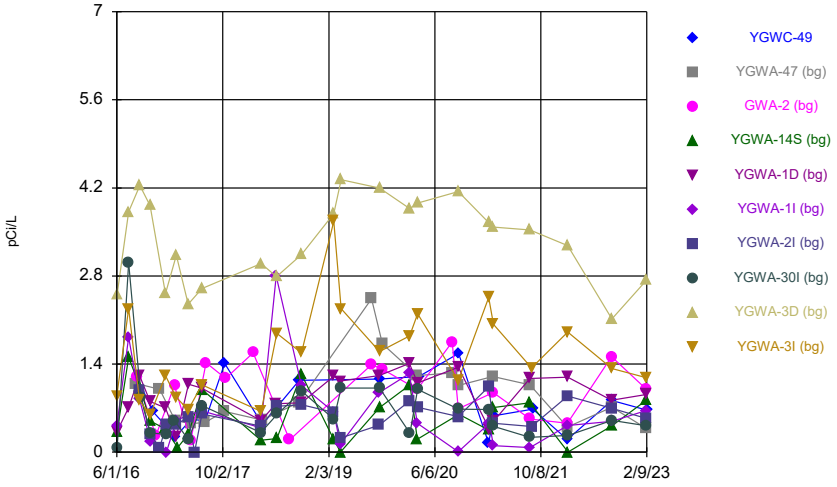


Constituent: Combined Radium 226 + 228 Analysis Run 4/26/2023 11:04 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Time Series

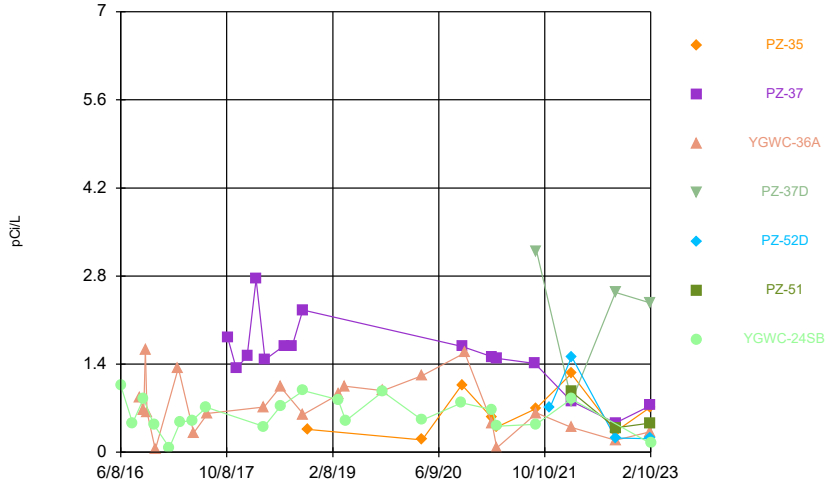


Constituent: Combined Radium 226 + 228 Analysis Run 4/26/2023 11:04 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Time Series

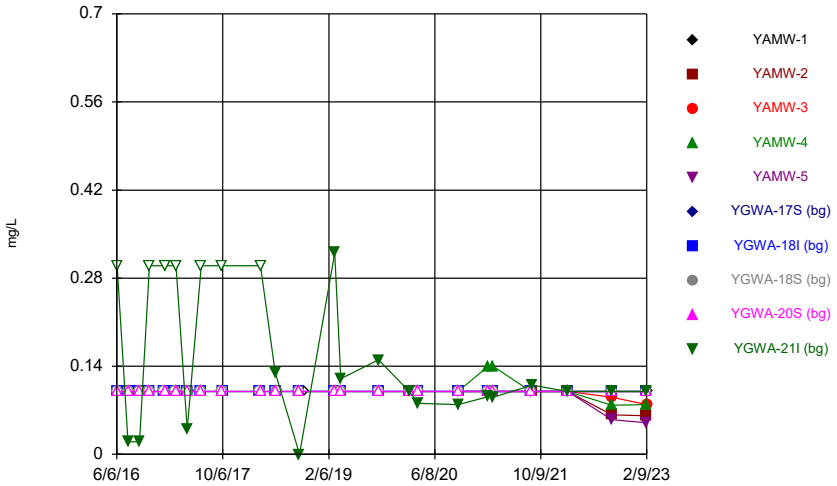


Constituent: Combined Radium 226 + 228 Analysis Run 4/26/2023 11:04 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

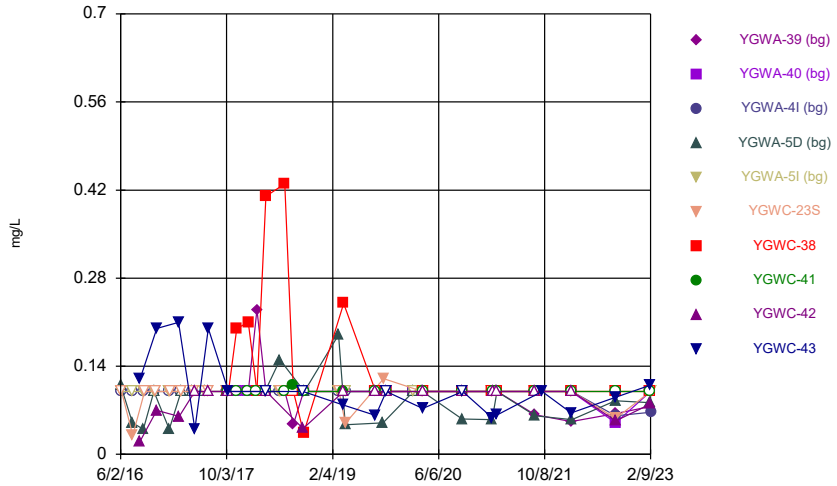
Time Series



Constituent: Fluoride Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

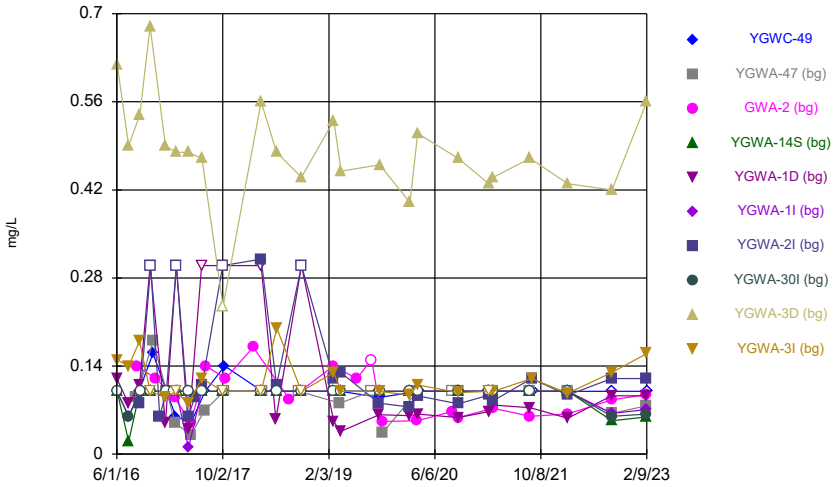
Time Series



Constituent: Fluoride Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

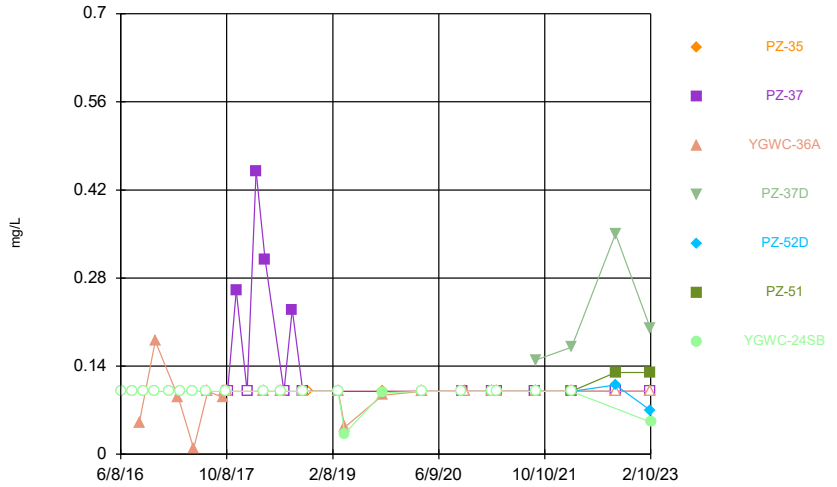
Time Series



Constituent: Fluoride Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

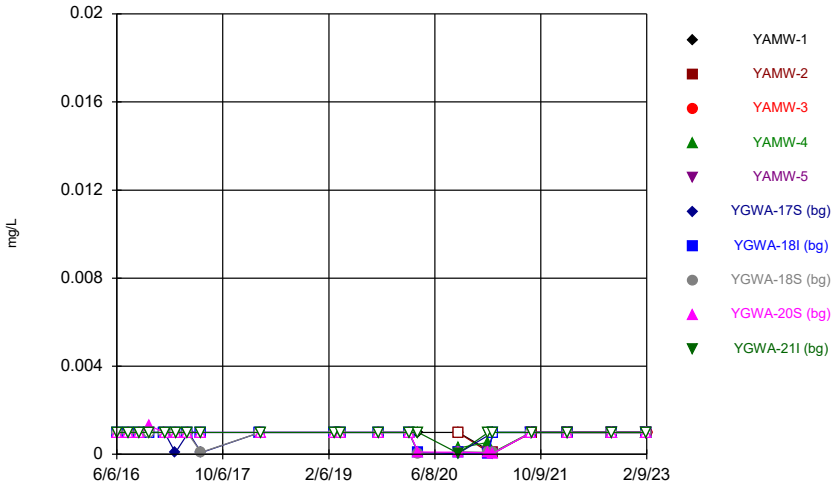
Time Series



Constituent: Fluoride Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

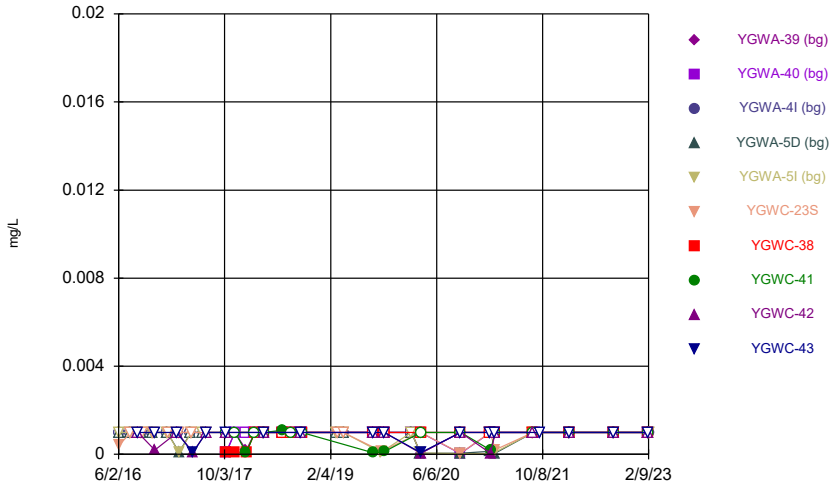
Time Series



Constituent: Lead Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

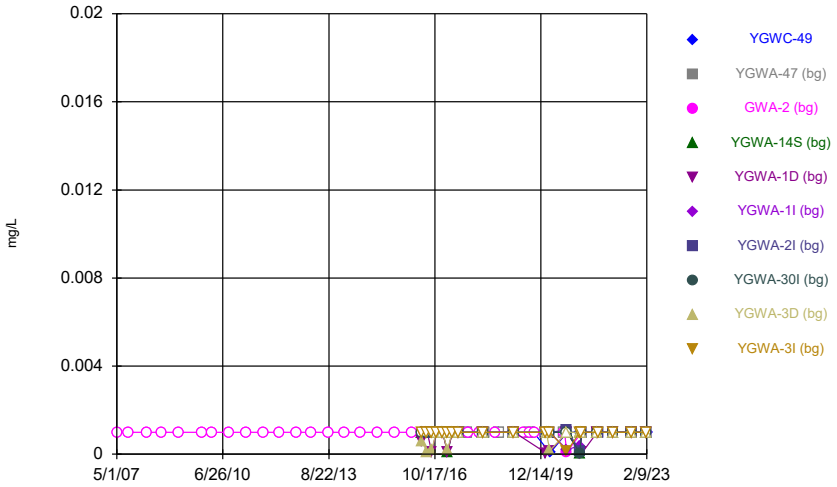
Time Series



Constituent: Lead Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

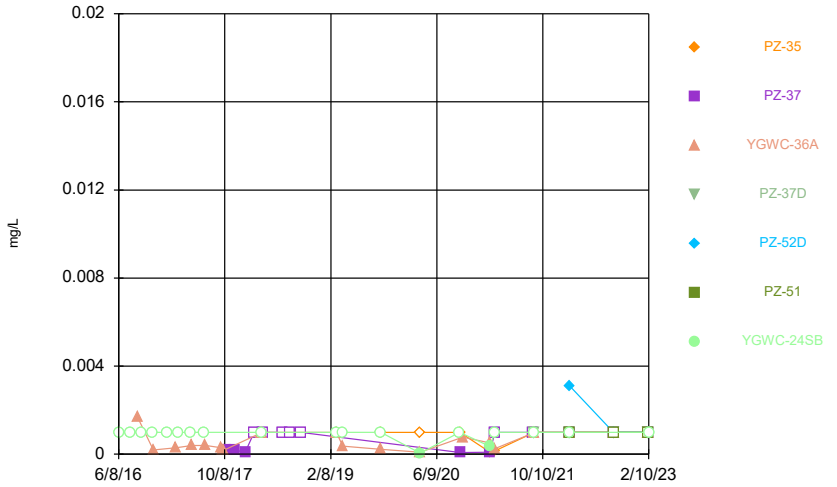
Time Series



Constituent: Lead Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

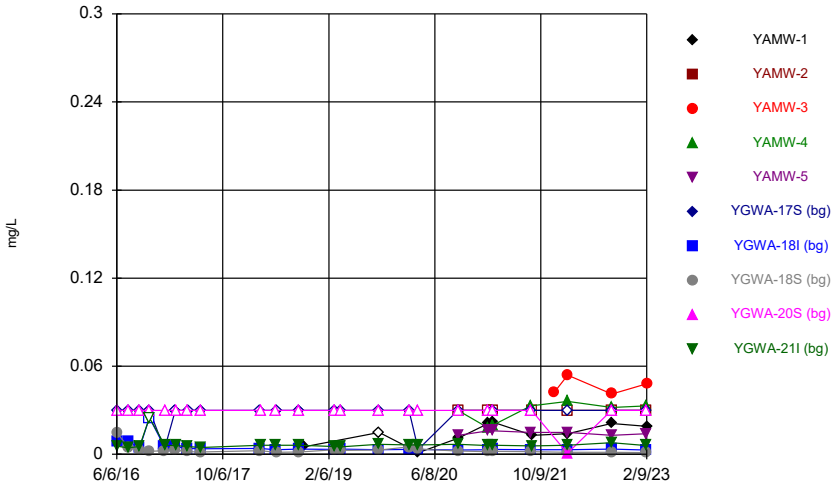
Time Series



Constituent: Lead Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

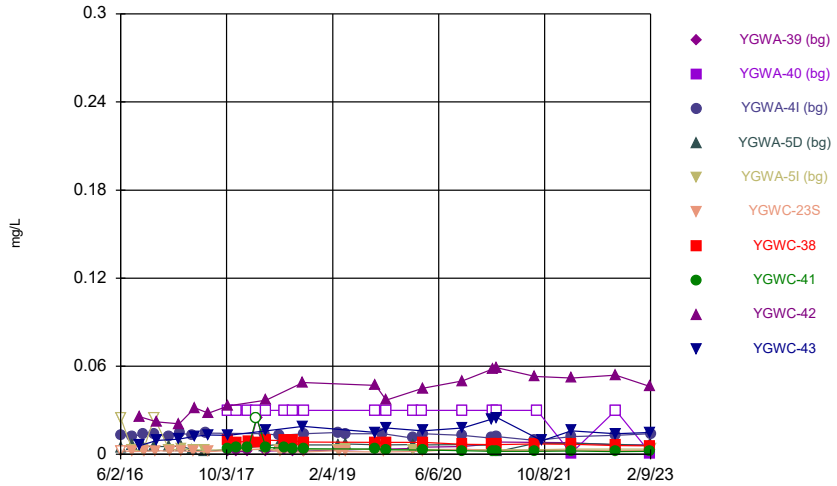
Time Series



Constituent: Lithium Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

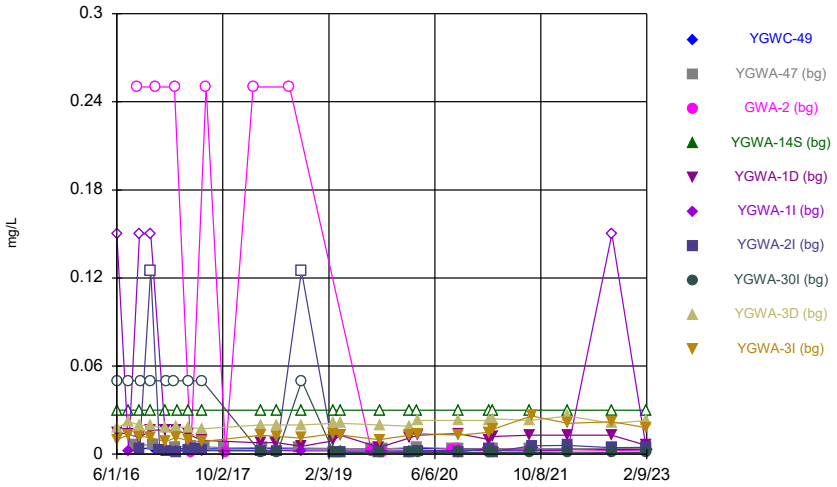
Time Series



Constituent: Lithium Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

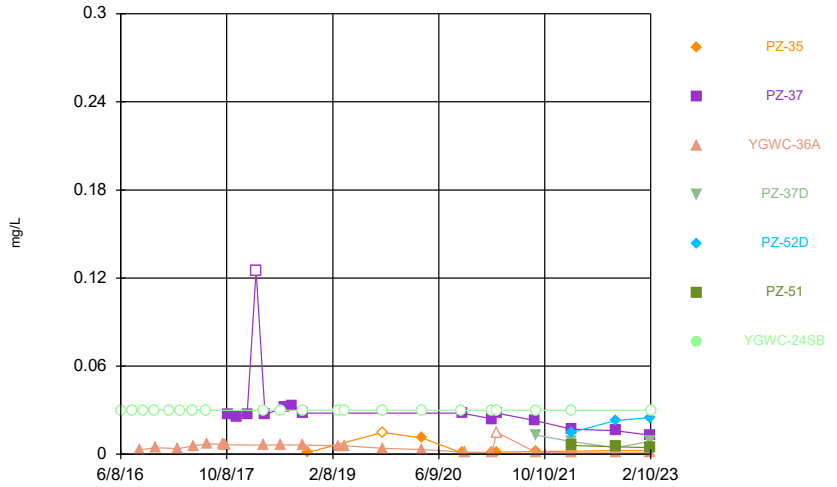
Time Series



Constituent: Lithium Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

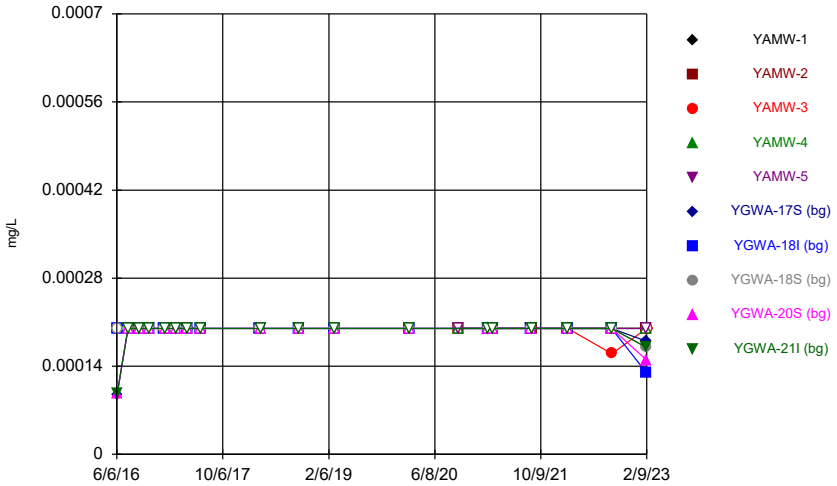
Time Series



Constituent: Lithium Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

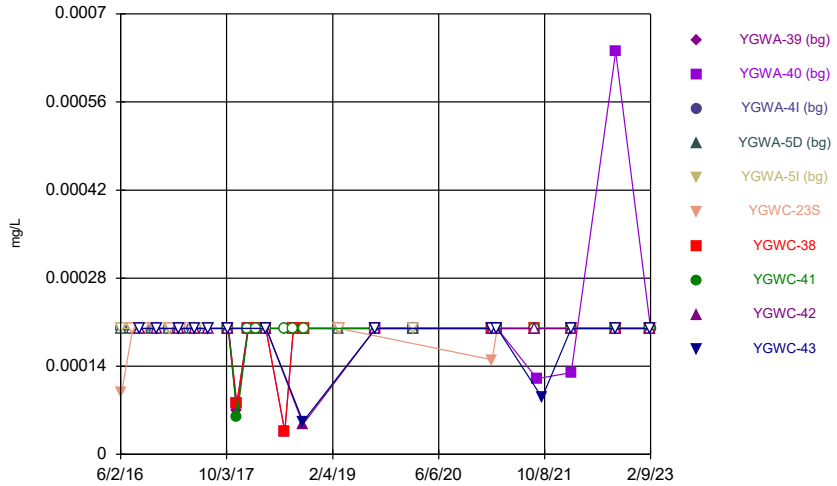
Time Series



Constituent: Mercury Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

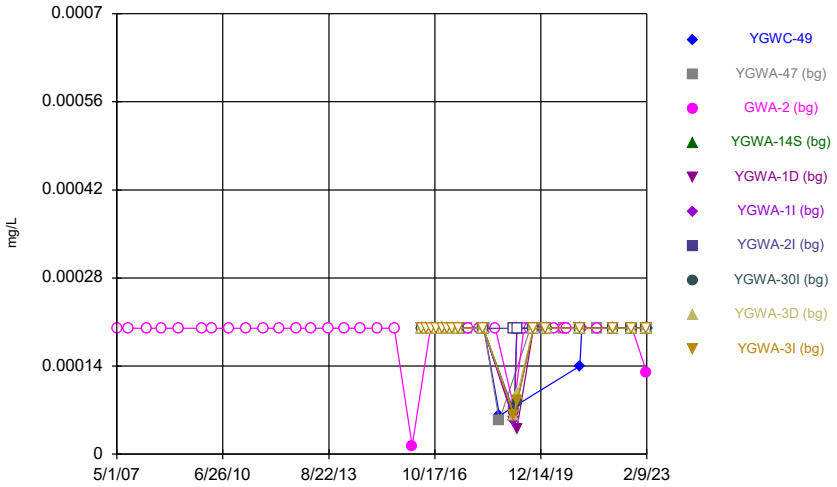
Time Series



Constituent: Mercury Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

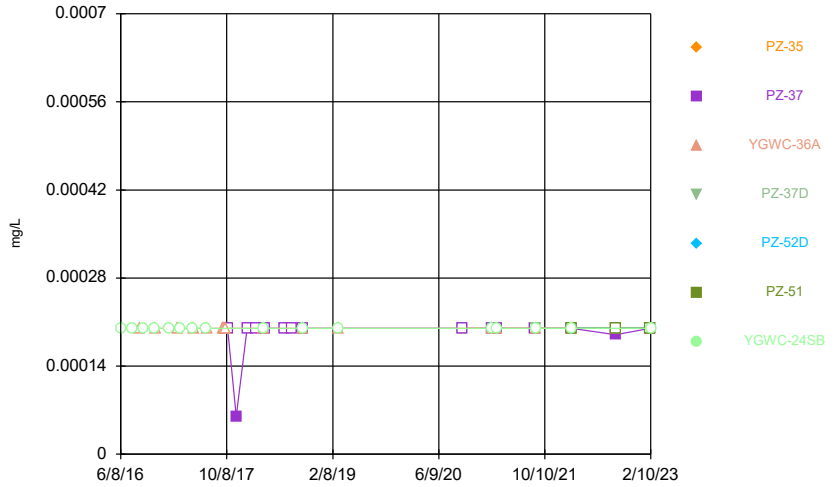
Time Series



Constituent: Mercury Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

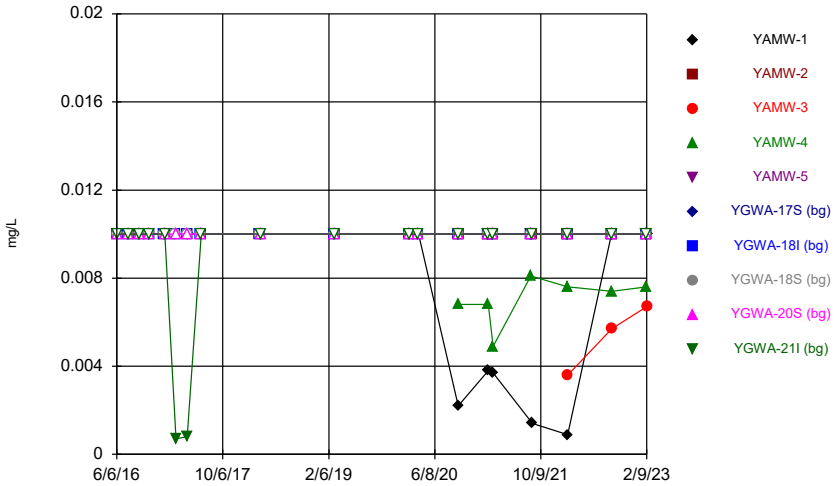
Time Series



Constituent: Mercury Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

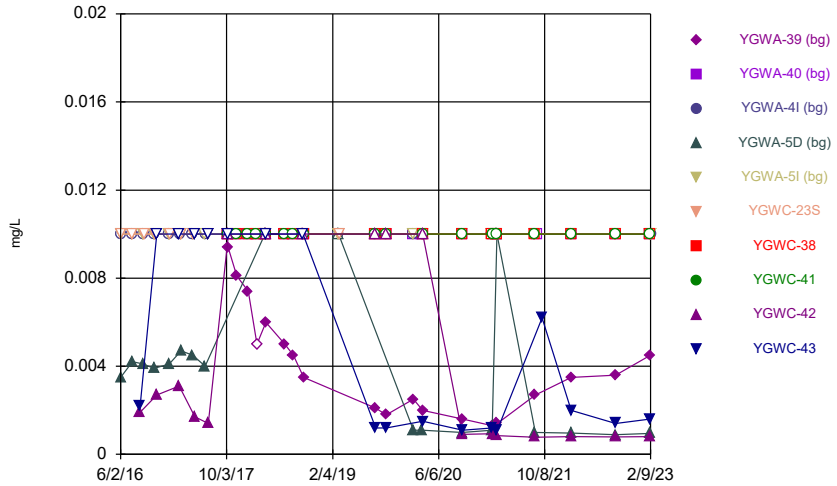
Time Series



Constituent: Molybdenum Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

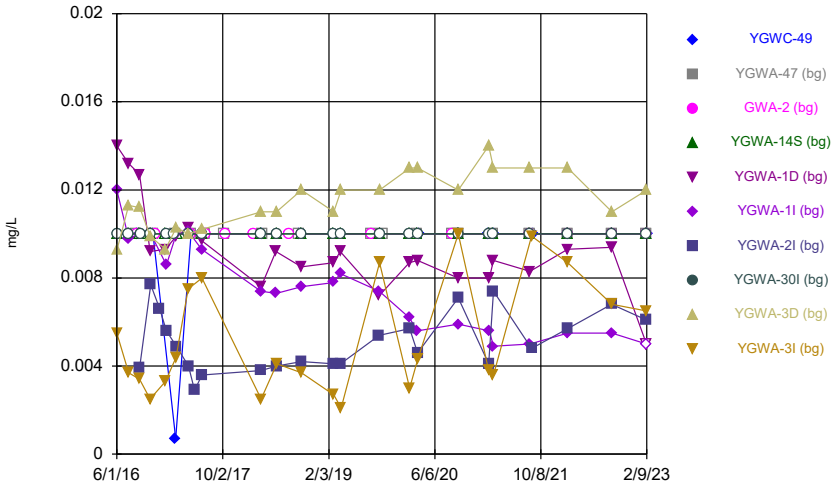
Time Series



Constituent: Molybdenum Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

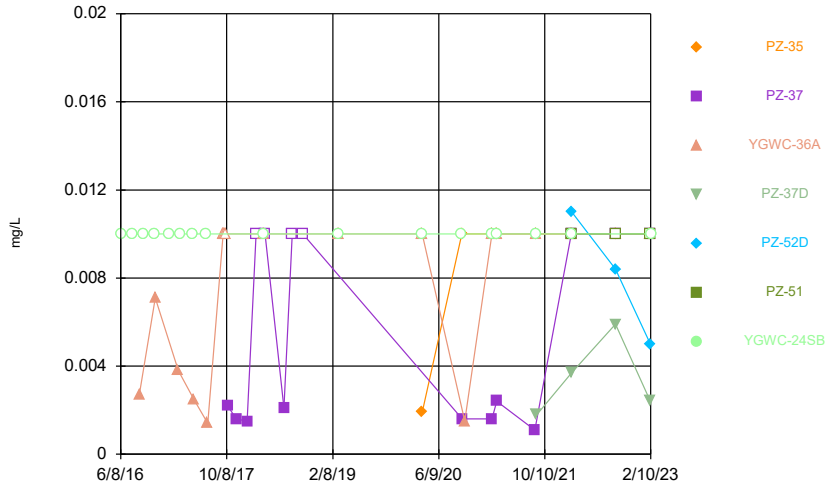
Time Series



Constituent: Molybdenum Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

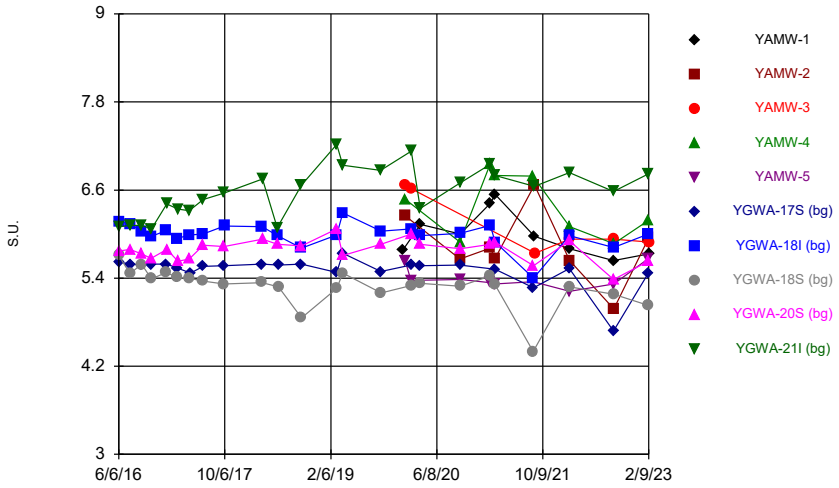
Time Series



Constituent: Molybdenum Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Time Series

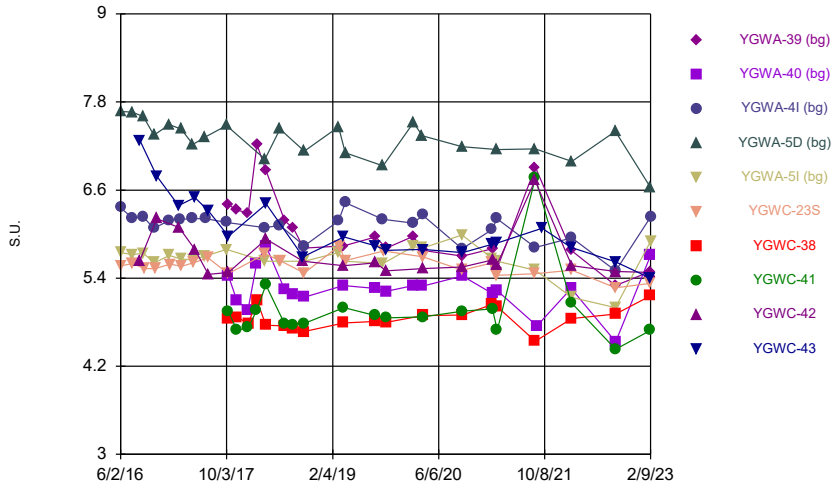


Constituent: pH Analysis Run 4/26/2023 11:04 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Time Series

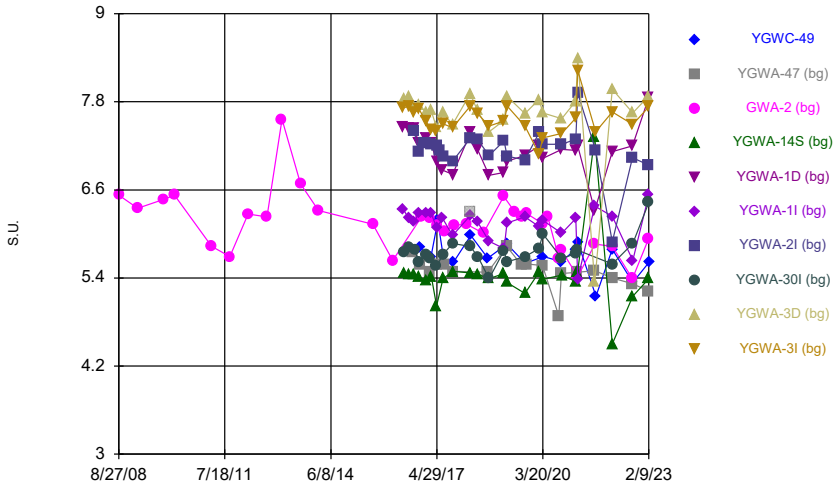


Constituent: pH Analysis Run 4/26/2023 11:04 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Time Series

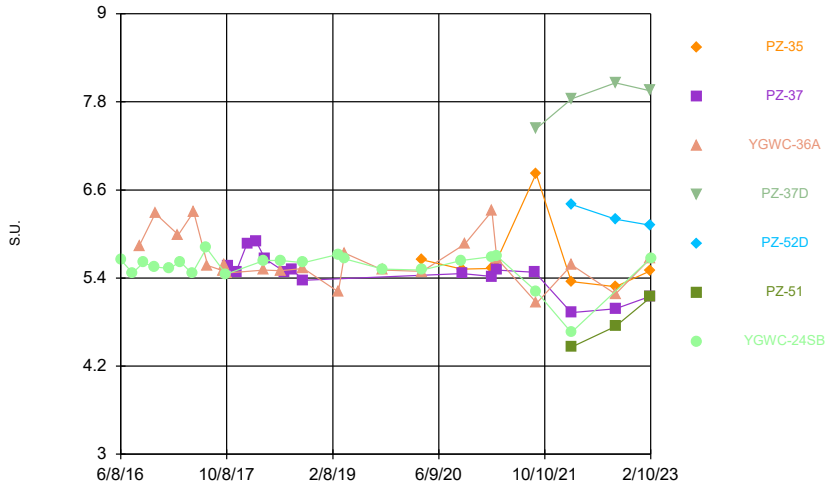


Constituent: pH Analysis Run 4/26/2023 11:04 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Time Series

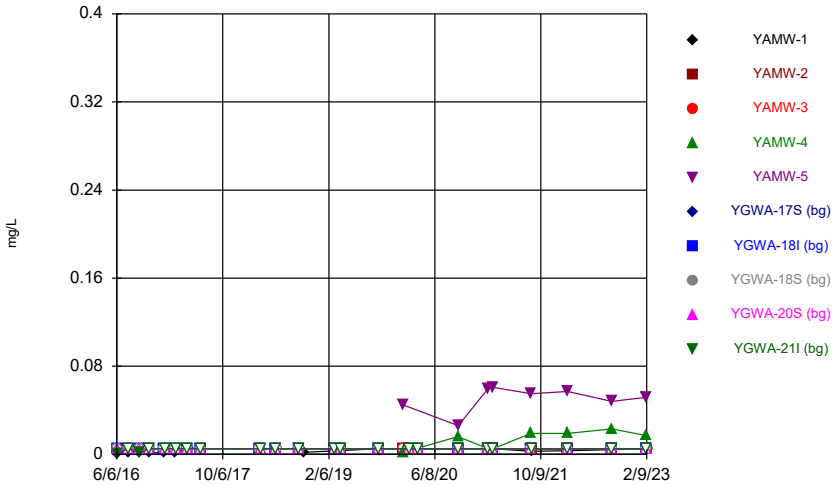


Constituent: pH Analysis Run 4/26/2023 11:04 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

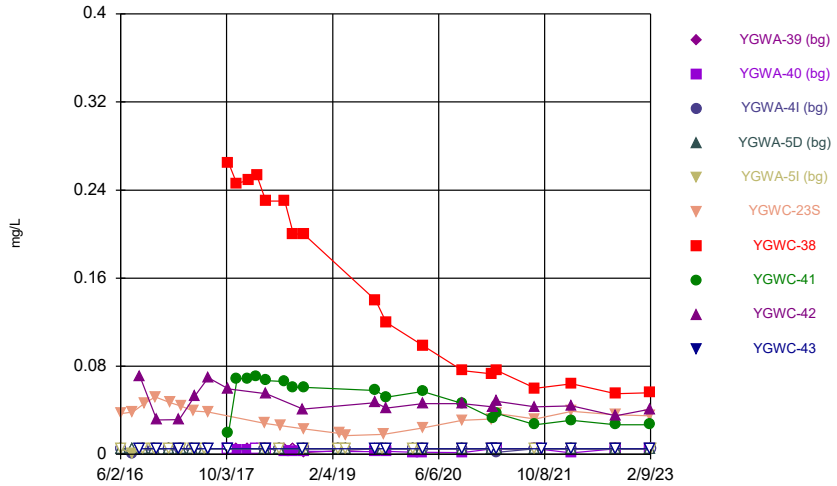
Time Series



Constituent: Selenium Analysis Run 4/26/2023 11:05 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

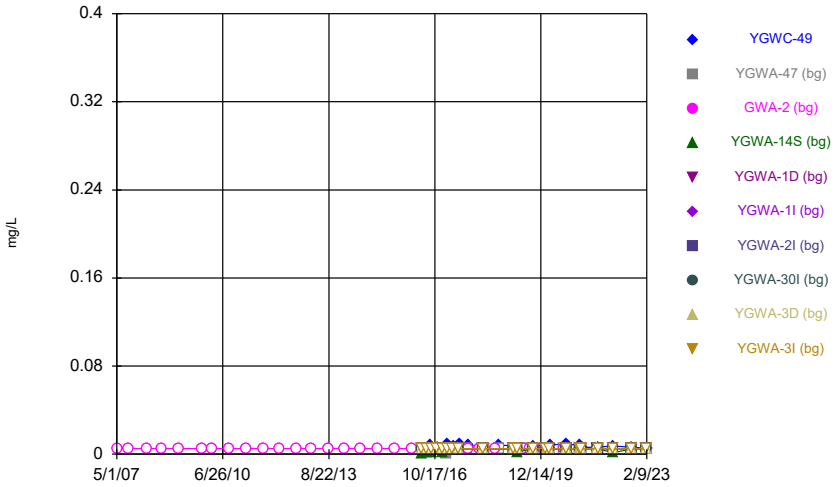
Time Series



Constituent: Selenium Analysis Run 4/26/2023 11:05 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

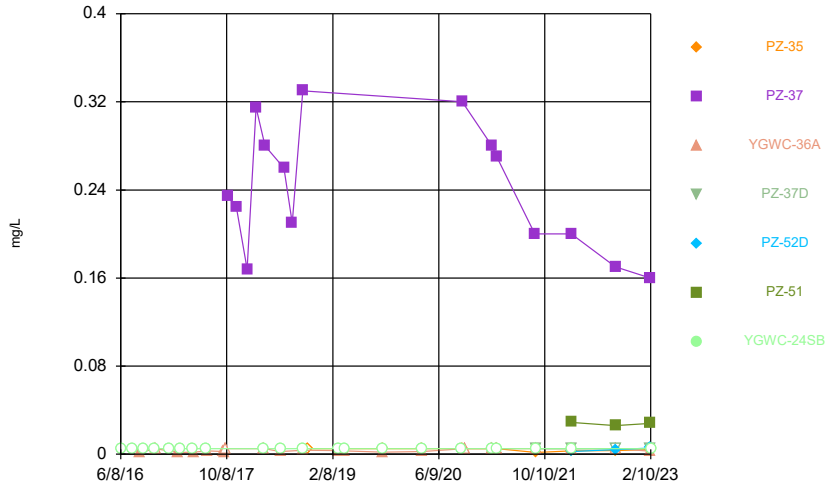
Time Series



Constituent: Selenium Analysis Run 4/26/2023 11:05 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

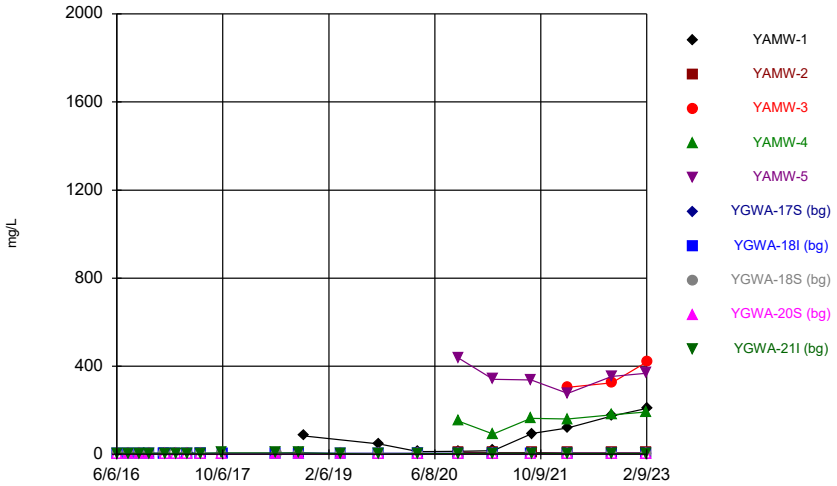
Time Series



Constituent: Selenium Analysis Run 4/26/2023 11:05 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

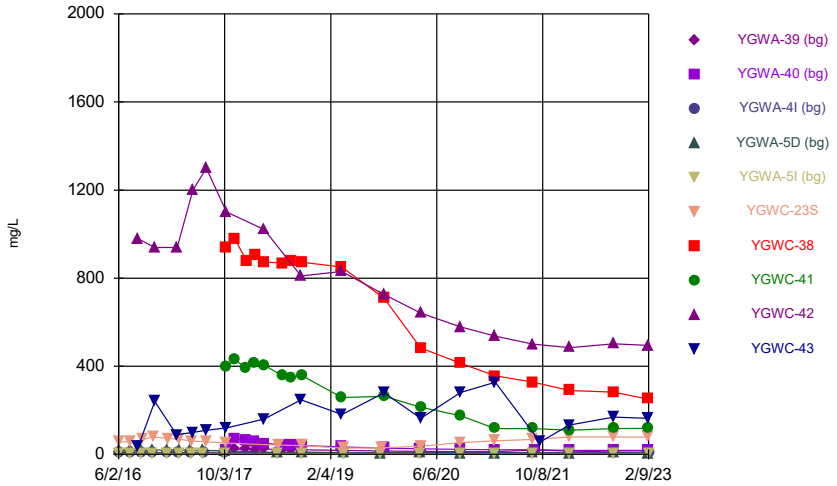
Time Series



Constituent: Sulfate Analysis Run 4/26/2023 11:05 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

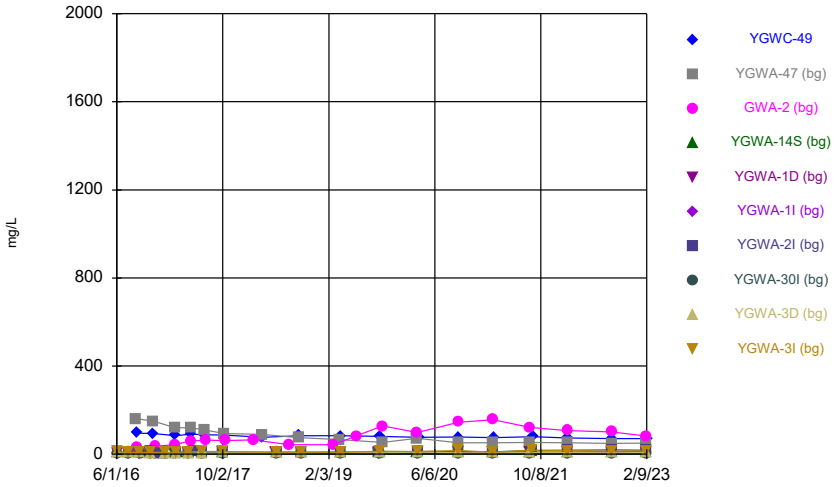
Time Series



Constituent: Sulfate Analysis Run 4/26/2023 11:05 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

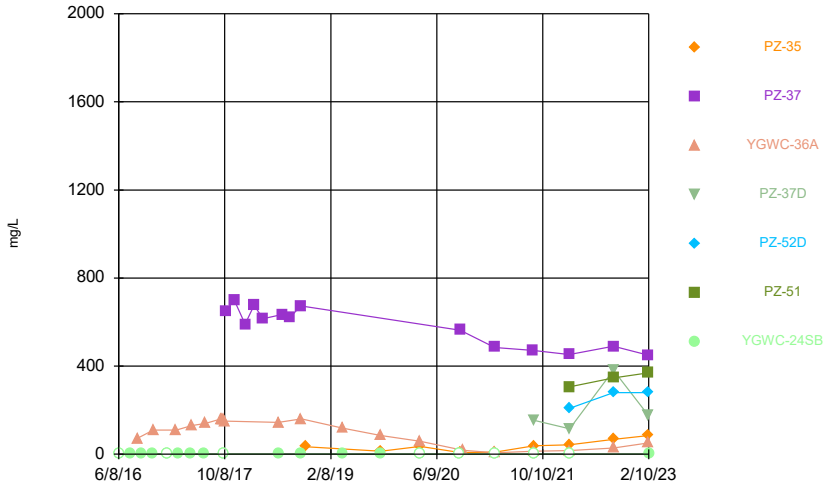
Time Series



Constituent: Sulfate Analysis Run 4/26/2023 11:05 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

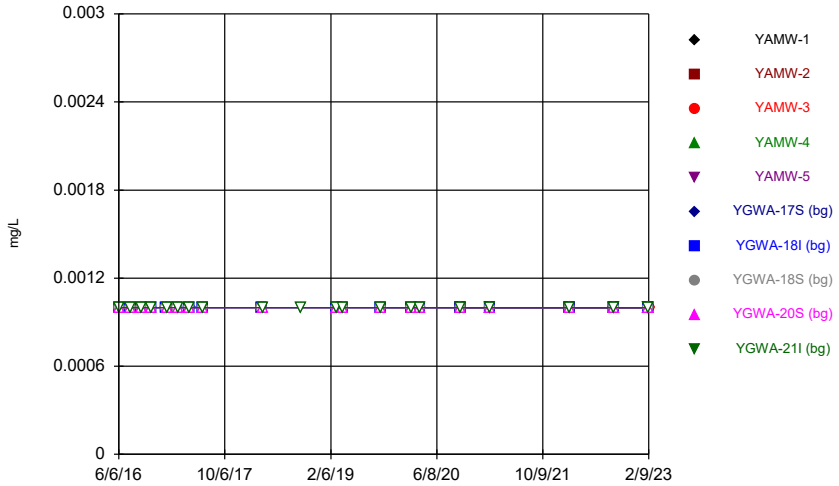
Time Series



Constituent: Sulfate Analysis Run 4/26/2023 11:05 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

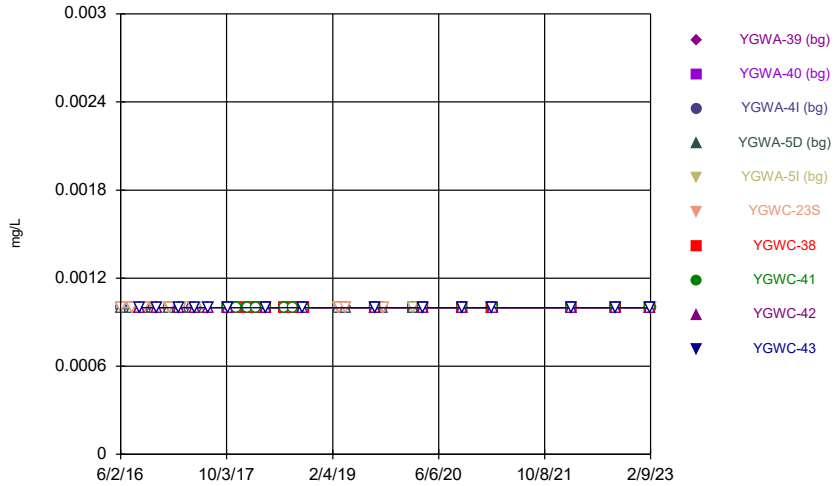
Time Series



Constituent: Thallium Analysis Run 4/26/2023 11:05 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Analysis Run 4/26/2023 11:05 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
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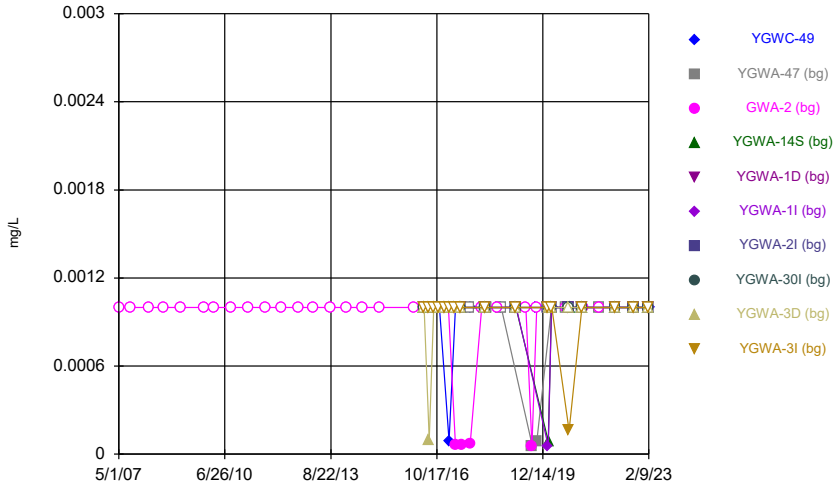
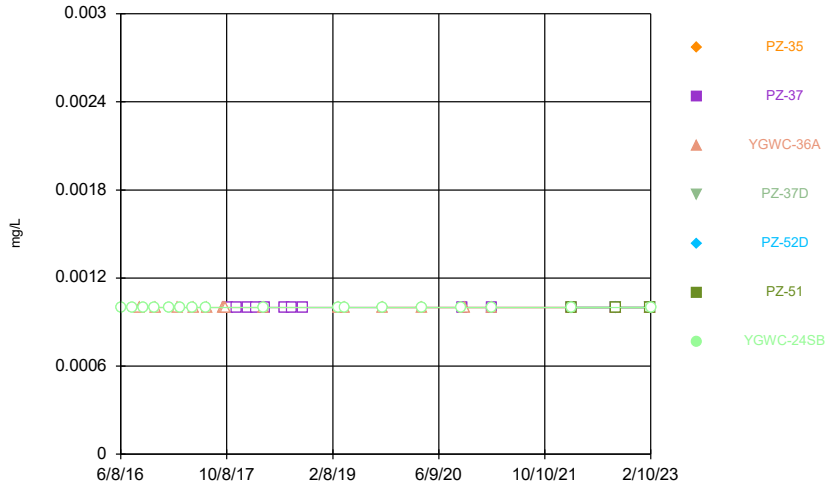
Time Series



Constituent: Thallium Analysis Run 4/26/2023 11:05 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

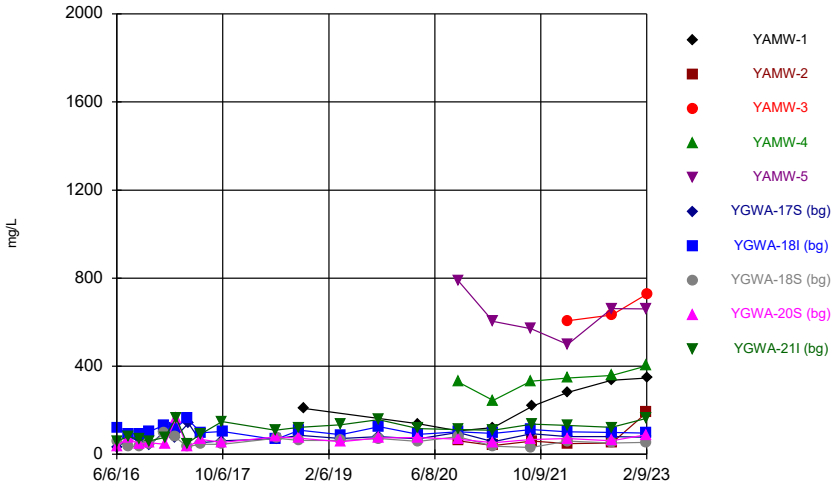
Time Series



Constituent: Thallium Analysis Run 4/26/2023 11:05 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Time Series

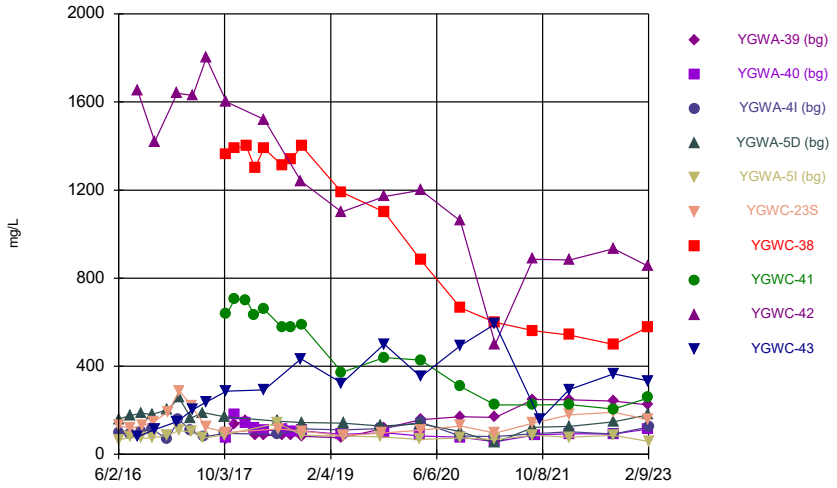


Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:05 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Time Series



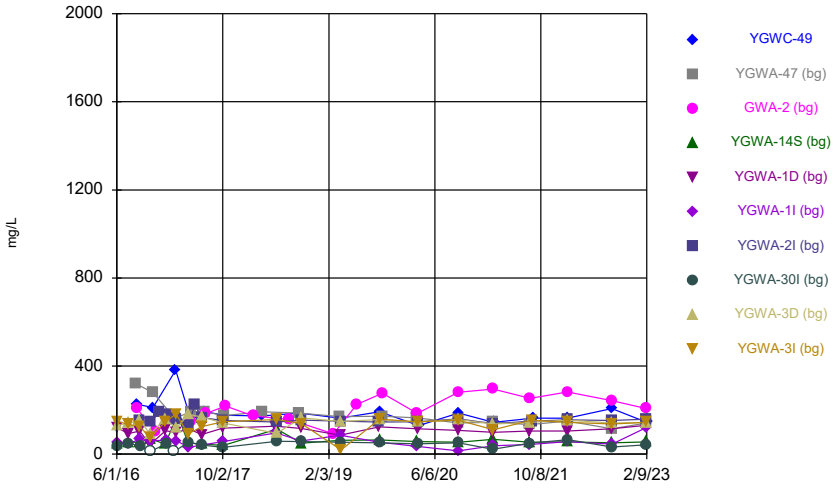
Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:05 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series

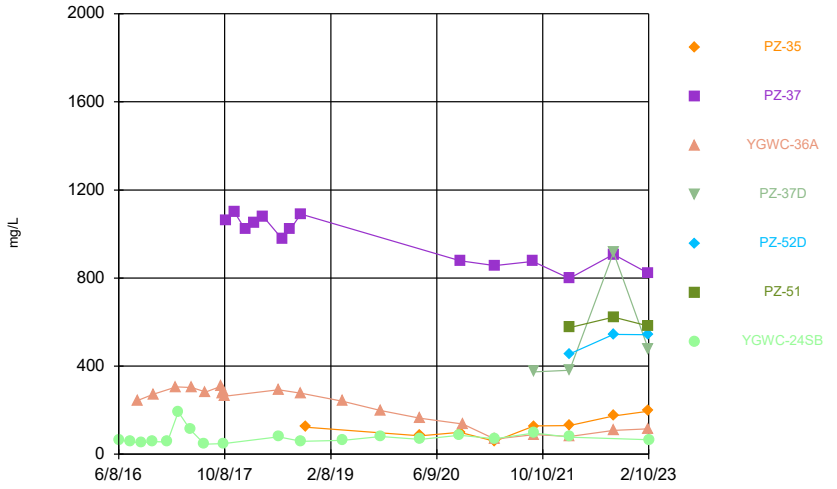


Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:05 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Time Series



Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:05 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.003	<0.003	
6/7/2016						<0.003			<0.003
7/27/2016						<0.003	0.0005 (J)	<0.003	<0.003
7/28/2016									
9/16/2016						<0.003		<0.003	
9/19/2016							<0.003		<0.003
11/2/2016									<0.003
11/3/2016						<0.003	<0.003	<0.003	
1/11/2017						<0.003	<0.003	<0.003	
1/13/2017									<0.003
3/1/2017							<0.003	<0.003	
3/2/2017						<0.003			
3/6/2017									<0.003
4/26/2017							<0.003	<0.003	<0.003
5/2/2017						<0.003			
6/28/2017							<0.003	<0.003	
6/29/2017						<0.003			<0.003
3/28/2018						<0.003	<0.003	<0.003	
3/29/2018									<0.003
3/5/2019						<0.003		<0.003	<0.003
3/6/2019							<0.003		
4/2/2019						<0.003			
4/3/2019							<0.003	<0.003	<0.003
9/24/2019									
9/25/2019						<0.003			<0.003
9/26/2019	<0.003						0.00056 (J)	<0.003	
2/11/2020						<0.003	<0.003	<0.003	
2/12/2020									<0.003
3/24/2020						<0.003	<0.003	<0.003	<0.003
3/25/2020	<0.003								
9/23/2020		<0.003		0.00065 (J)		<0.003	<0.003	<0.003	
9/24/2020	<0.003				0.00033 (J)				<0.003
2/9/2021	0.00037 (J)	<0.003		0.0011 (J)	<0.003		<0.003	<0.003	0.00032 (J)
3/3/2021	0.025	<0.003		0.00062 (J)		<0.003	<0.003	0.00067 (J)	<0.003
3/4/2021					<0.003				
8/25/2021				<0.003					
8/26/2021					<0.003			<0.003	
8/27/2021						<0.003	<0.003		<0.003
9/1/2021	0.0024 (J)	<0.003							
2/9/2022						<0.003	<0.003	<0.003	<0.003
2/10/2022	<0.003	<0.003	<0.003	<0.003	<0.003				
8/30/2022						<0.003	<0.003	<0.003	
8/31/2022	0.0016 (J)								<0.003
9/1/2022		<0.003	<0.003	<0.003	<0.003				
2/7/2023						0.0013 (J)	<0.003	<0.003	<0.003
2/8/2023		<0.003		<0.003	<0.003				
2/9/2023	<0.003		<0.003						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-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	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-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 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
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				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.003
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.003
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.003
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	<0.003
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.003
10/11/2017	
10/12/2017	<0.003
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.003
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	<0.003
9/24/2018	
3/4/2019	
3/6/2019	
4/3/2019	
4/4/2019	
8/21/2019	<0.003
8/22/2019	
9/24/2019	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
9/25/2019	
9/27/2019	
2/12/2020	
3/24/2020	
3/25/2020	0.00031 (J)
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	<0.003
2/8/2021	
2/9/2021	<0.003
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.003
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	<0.003
2/8/2022	<0.003
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	<0.003
2/7/2023	
2/8/2023	<0.003
2/9/2023	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			<0.003						
9/11/2007			<0.003						
3/20/2008			<0.003						
8/27/2008			<0.003						
3/3/2009			<0.003						
11/18/2009			<0.003						
3/3/2010			<0.003						
9/8/2010			<0.003						
3/10/2011			<0.003						
9/8/2011			<0.003						
3/5/2012			<0.003						
9/10/2012			<0.003						
2/6/2013			<0.003						
8/12/2013			<0.003						
2/5/2014			<0.003						
8/5/2014			<0.003						
2/4/2015			<0.003						
8/3/2015			<0.003						
2/16/2016			<0.003						
6/1/2016					<0.003	<0.003			
6/2/2016				<0.003				<0.003	<0.003
7/25/2016						<0.003		<0.003	
7/26/2016				0.0005 (J)	0.001 (J)				0.002 (J)
8/30/2016		0.0028 (J)							
8/31/2016			<0.003						
9/1/2016	<0.003								
9/13/2016					0.001 (J)	<0.003			
9/14/2016							<0.003		
9/15/2016				<0.003					0.0027 (J)
9/19/2016								<0.003	
11/1/2016					0.0015 (J)			<0.003	<0.003
11/2/2016				<0.003					
11/4/2016						<0.003	<0.003		
11/14/2016		<0.003							
11/15/2016	<0.003								
11/28/2016			0.0014 (J)						
12/15/2016							0.0012 (J)		
1/10/2017				<0.003					
1/11/2017					<0.003				<0.003
1/16/2017						<0.003	<0.003	<0.003	
2/21/2017								<0.003	
2/22/2017			<0.003						
2/24/2017		<0.003							
2/27/2017	0.0011 (J)								
3/1/2017									
3/2/2017					0.0004 (J)	<0.003			0.0008 (J)
3/3/2017							<0.003		
3/8/2017				<0.003					
4/26/2017				<0.003				<0.003	<0.003
4/27/2017					0.0004 (J)	0.0017 (J)			
4/28/2017							0.0015 (J)		
5/8/2017		0.0004 (J)	<0.003						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	<0.003								
5/26/2017							0.0005 (J)		
6/27/2017					<0.003	<0.003			
6/28/2017							<0.003		<0.003
6/30/2017				<0.003				<0.003	
7/11/2017		0.0006 (J)							
7/13/2017	<0.003								
7/17/2017			<0.003						
10/10/2017		<0.003							
10/11/2017	<0.003								
10/16/2017			<0.003						
2/19/2018			<0.003						
3/27/2018				<0.003		<0.003		<0.003	
3/28/2018							<0.003		<0.003
3/29/2018					<0.003				
4/2/2018		<0.003							
4/4/2018	<0.003								
8/6/2018			<0.003						
9/19/2018		<0.003							
9/20/2018	<0.003								
2/25/2019			<0.003						
2/26/2019				<0.003				<0.003	
2/27/2019					<0.003	<0.003	<0.003		<0.003
6/12/2019			<0.003						
8/19/2019			<0.003						
8/20/2019		<0.003							
9/26/2019	<0.003								
10/8/2019			<0.003						
2/10/2020					0.00088 (J)	<0.003			
2/11/2020							0.00036 (J)		
2/12/2020				<0.003				<0.003	<0.003
3/17/2020			<0.003						
3/18/2020				<0.003		0.0004 (J)			
3/19/2020					<0.003		0.0003 (J)	<0.003	0.00064 (J)
3/25/2020	0.00053 (J)								
8/26/2020			0.00042 (J)						
8/27/2020		0.00048 (J)							
9/22/2020		<0.003	0.00044 (J)						
9/23/2020					<0.003	<0.003	<0.003		<0.003
9/24/2020	<0.003							<0.003	
9/25/2020				<0.003					
2/9/2021	<0.003								
2/10/2021				<0.003			0.0013 (J)		<0.003
2/11/2021								<0.003	
2/12/2021					<0.003	<0.003			
3/1/2021		0.00048 (J)						<0.003	
3/2/2021			<0.003	<0.003					
3/3/2021					<0.003	<0.003	<0.003		<0.003
3/4/2021	<0.003								
8/19/2021		<0.003		<0.003	<0.003	<0.003		<0.003	<0.003
8/20/2021			<0.003						
8/27/2021							<0.003		

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
9/1/2021	<0.003								
2/8/2022	<0.003	<0.003	<0.003						
2/9/2022					<0.003	<0.003	<0.003		0.0018 (J)
2/10/2022				<0.003					
2/11/2022								<0.003	
8/30/2022			<0.003		<0.003		<0.003		
8/31/2022	<0.003	<0.003		<0.003		<0.003		<0.003	<0.003
2/7/2023			<0.003		<0.003	<0.003	<0.003		
2/8/2023		<0.003		<0.003				<0.003	<0.003
2/9/2023	<0.003								

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	<0.003
6/2/2016	
7/25/2016	<0.003
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.003
9/15/2016	
9/19/2016	
11/1/2016	<0.003
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.003
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.003
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.003
4/27/2017	
4/28/2017	
5/8/2017	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	<0.003
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.003
3/29/2018	
4/2/2018	
4/4/2018	
8/6/2018	
9/19/2018	
9/20/2018	
2/25/2019	
2/26/2019	
2/27/2019	<0.003
6/12/2019	
8/19/2019	
8/20/2019	
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	<0.003
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.003
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	<0.003
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	<0.003
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	<0.003
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
9/1/2021	
2/8/2022	
2/9/2022	<0.003
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	<0.003
2/7/2023	
2/8/2023	<0.003
2/9/2023	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
6/8/2016							<0.003
8/1/2016							<0.003
9/2/2016			<0.003				
9/20/2016							0.0009 (J)
11/8/2016							<0.003
11/14/2016			0.0014 (J)				
1/17/2017							<0.003
2/28/2017			0.0004 (J)				
3/8/2017							<0.003
5/2/2017							<0.003
5/9/2017			<0.003				
7/7/2017							<0.003
7/13/2017			<0.003				
9/22/2017			<0.003				
9/29/2017			<0.003				
10/6/2017			<0.003				
10/12/2017		<0.003					
11/21/2017		<0.003					
1/11/2018		<0.003					
2/20/2018		<0.003					
3/30/2018			<0.003				<0.003
4/3/2018		<0.003					
6/29/2018		<0.003					
8/6/2018		<0.003					
9/24/2018		<0.003					
3/5/2019							<0.003
3/6/2019			0.0011 (J)				
4/4/2019			0.0041				<0.003
9/26/2019	<0.003		0.0065				<0.003
3/25/2020	<0.003		0.0011 (J)				
3/26/2020							<0.003
9/23/2020							<0.003
9/24/2020	<0.003						
9/25/2020		0.0014 (J)					
10/7/2020			<0.003				
2/9/2021		0.00035 (J)					<0.003
2/10/2021	<0.003		0.028				
3/3/2021							<0.003
3/4/2021	0.00039 (J)	<0.003	0.0015 (J)				
8/25/2021		<0.003					
9/1/2021	<0.003						<0.003
9/3/2021			0.0016 (J)	<0.003			
2/10/2022	<0.003	<0.003				<0.003	<0.003
2/11/2022			0.0023 (J)	<0.003	<0.003		
8/31/2022	<0.003						
9/1/2022		0.00091 (J)	<0.003	<0.003	<0.003	<0.003	
2/8/2023		<0.003		0.0015 (J)	<0.003		
2/9/2023	<0.003		<0.003			<0.003	
2/10/2023							<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.005	<0.005	
6/7/2016						<0.005			<0.005
7/27/2016						<0.005	<0.005	<0.005	<0.005
7/28/2016									
9/16/2016						<0.005		<0.005	
9/19/2016							<0.005		<0.005
11/2/2016									<0.005
11/3/2016						<0.005	<0.005	<0.005	
1/11/2017						<0.005	<0.005	<0.005	
1/13/2017									<0.005
3/1/2017							<0.005	<0.005	
3/2/2017						<0.005			
3/6/2017									<0.005
4/26/2017							<0.005	<0.005	<0.005
5/2/2017						<0.005			
6/28/2017							<0.005	<0.005	
6/29/2017						<0.005			<0.005
3/28/2018						<0.005	<0.005	0.00061 (J)	
3/29/2018									<0.005
6/5/2018									
6/6/2018									<0.005
6/7/2018							0.00066 (J)		
6/11/2018						<0.005		<0.005	
9/25/2018						<0.005	<0.005	<0.005	<0.005
10/16/2018	<0.005								
3/5/2019						<0.005		<0.005	<0.005
3/6/2019							<0.005		
4/2/2019						<0.005			
4/3/2019							<0.005	<0.005	<0.005
9/24/2019									
9/25/2019						<0.005			<0.005
9/26/2019	<0.005						<0.005	<0.005	
2/11/2020						0.0022 (J)	0.0014 (J)	0.0026 (J)	
2/12/2020									<0.005
3/24/2020						<0.005	<0.005	<0.005	<0.005
3/25/2020	<0.005								
9/23/2020		<0.005		<0.005		<0.005	<0.005	<0.005	
9/24/2020	<0.005				0.0015 (J)				<0.005
2/9/2021	<0.005	<0.005		0.001 (J)	0.00095 (J)		<0.005	<0.005	<0.005
3/3/2021	<0.005	<0.005		0.00079 (J)		<0.005	<0.005	<0.005	<0.005
3/4/2021					<0.005				
8/25/2021				<0.005					
8/26/2021					<0.005			<0.005	
8/27/2021						<0.005	<0.005		<0.005
9/1/2021	<0.005	<0.005							
2/9/2022						0.0024 (J)	0.0022 (J)	0.0024 (J)	0.0021 (J)
2/10/2022	0.0023 (J)	<0.005	0.0038 (J)	0.0026 (J)	0.0024 (J)				
8/30/2022						<0.005	<0.005	<0.005	
8/31/2022	<0.005								<0.005
9/1/2022		<0.005	<0.005	<0.005	<0.005				
2/7/2023						<0.005	<0.005	<0.005	<0.005
2/8/2023		<0.005		0.0037 (J)	0.0038 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/9/2023	0.0034 (J)		<0.005						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-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 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
2/9/2023	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-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 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
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				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.005
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.005
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.005
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	<0.005
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.005
10/11/2017	
10/12/2017	<0.005
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.005
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	0.00099 (J)
9/24/2018	
9/26/2018	
9/27/2018	
3/4/2019	
3/6/2019	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
4/3/2019	
4/4/2019	
8/21/2019	<0.005
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	0.00051 (J)
2/12/2020	
3/24/2020	
3/25/2020	0.0007 (J)
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	<0.005
2/8/2021	
2/9/2021	<0.005
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.005
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	<0.005
2/8/2022	0.0022 (J)
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	<0.005
2/7/2023	
2/8/2023	0.0033 (J)
2/9/2023	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			<0.005						
9/11/2007			<0.005						
3/20/2008			<0.005						
8/27/2008			<0.005						
3/3/2009			<0.005						
11/18/2009			<0.005						
3/3/2010			<0.005						
9/8/2010			<0.005						
3/10/2011			<0.005						
9/8/2011			<0.005						
3/5/2012			<0.005						
9/10/2012			<0.005						
2/6/2013			<0.005						
8/12/2013			<0.005						
2/5/2014			<0.005						
8/5/2014			<0.005						
2/4/2015			<0.005						
8/3/2015			<0.005						
2/16/2016			<0.005						
6/1/2016					0.0021	<0.005			
6/2/2016				<0.005				<0.005	<0.005
7/25/2016						<0.005		<0.005	
7/26/2016				<0.005	0.0016 (J)				<0.005
8/30/2016		<0.005							
8/31/2016			<0.005						
9/1/2016	<0.005								
9/13/2016					<0.005	<0.005			
9/14/2016							<0.005		
9/15/2016				<0.005					<0.005
9/19/2016								<0.005	
11/1/2016					<0.005			<0.005	<0.005
11/2/2016				<0.005					
11/4/2016						<0.005	0.0017 (J)		
11/14/2016		<0.005							
11/15/2016	<0.005								
11/28/2016			<0.005						
12/15/2016							0.0023 (J)		
1/10/2017				<0.005					
1/11/2017					0.0017 (J)				<0.005
1/16/2017						<0.005	0.0018 (J)	<0.005	
2/21/2017								<0.005	
2/22/2017			<0.005						
2/24/2017		<0.005							
2/27/2017	<0.005								
3/1/2017									
3/2/2017					0.0014 (J)	<0.005			<0.005
3/3/2017							0.0016 (J)		
3/8/2017				<0.005					
4/26/2017				<0.005				<0.005	<0.005
4/27/2017					0.0018 (J)	<0.005			
4/28/2017							0.002 (J)		
5/8/2017		<0.005	<0.005						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	<0.005								
5/26/2017							0.0005 (J)		
6/27/2017					0.0018 (J)	<0.005			
6/28/2017							0.0016 (J)		0.0007 (J)
6/30/2017				<0.005				<0.005	
7/11/2017		<0.005							
7/13/2017	<0.005								
7/17/2017			<0.005						
10/10/2017		0.0007 (J)							
10/11/2017	0.0006 (J)								
10/16/2017			<0.005						
2/19/2018			<0.005						
3/27/2018				<0.005		<0.005		<0.005	
3/28/2018							0.0013 (J)		<0.005
3/29/2018					0.0017 (J)				
4/2/2018		<0.005							
4/4/2018	<0.005								
6/5/2018					0.0013 (J)				
6/6/2018						<0.005			
6/7/2018							0.00082 (J)		<0.005
6/8/2018				<0.005					
6/11/2018								<0.005	
8/6/2018			<0.005						
9/19/2018		0.00072 (J)							
9/20/2018	0.001 (J)								
10/1/2018				<0.005	0.0016 (J)	<0.005	0.0011 (J)		<0.005
10/2/2018								<0.005	
2/25/2019			<0.005						
2/26/2019				<0.005				<0.005	
2/27/2019					0.0015 (J)	<0.005	0.001 (J)		<0.005
3/28/2019					0.00072 (J)	<0.005			
3/29/2019				<0.005			0.00063 (J)		
4/1/2019								<0.005	<0.005
6/12/2019			0.00038 (J)						
8/19/2019			0.00095 (J)						
8/20/2019		<0.005							
9/24/2019					0.0014 (J)	<0.005	<0.005		
9/25/2019				<0.005				<0.005	<0.005
9/26/2019	<0.005								
10/8/2019		<0.005	<0.005						
2/10/2020					0.0026 (J)	0.0005 (J)			
2/11/2020							0.0044 (J)		
2/12/2020				<0.005				0.0032 (J)	0.0038 (J)
3/17/2020		<0.005	<0.005						
3/18/2020				<0.005		<0.005			
3/19/2020					0.00095 (J)		0.00066 (J)	<0.005	<0.005
3/25/2020	0.00086 (J)								
8/26/2020			<0.005						
8/27/2020		<0.005							
9/22/2020		<0.005	<0.005						
9/23/2020					0.0011 (J)	<0.005	0.001 (J)		<0.005
9/24/2020	<0.005							<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
9/25/2020				<0.005					
2/9/2021	<0.005								
2/10/2021				<0.005			<0.005		0.00094 (J)
2/11/2021								<0.005	
2/12/2021					<0.005	<0.005			
3/1/2021		<0.005						<0.005	
3/2/2021			<0.005	<0.005					
3/3/2021					<0.005	<0.005	0.00098 (J)		<0.005
3/4/2021	<0.005								
8/19/2021		<0.005		<0.005	<0.005	<0.005		<0.005	<0.005
8/20/2021			<0.005						
8/27/2021							<0.005		
9/1/2021	<0.005								
2/8/2022	<0.005	0.0027 (J)	0.0033 (J)						
2/9/2022					0.0031 (J)	0.0033 (J)	0.0037 (J)		0.002 (J)
2/10/2022				0.0016 (J)					
2/11/2022								0.0014 (J)	
8/30/2022			0.0024 (J)		<0.005		0.0027 (J)		
8/31/2022	<0.005	<0.005		<0.005		<0.005		<0.005	0.0028 (J)
2/7/2023			<0.005		<0.005	<0.005	<0.005		
2/8/2023		<0.005		<0.005				<0.005	0.003 (J)
2/9/2023	<0.005								

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	<0.005
6/2/2016	
7/25/2016	<0.005
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.005
9/15/2016	
9/19/2016	
11/1/2016	<0.005
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.005
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	0.0004 (J)
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.005
4/27/2017	
4/28/2017	
5/8/2017	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	0.0011 (J)
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.005
3/29/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	
6/7/2018	
6/8/2018	<0.005
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	<0.005
10/2/2018	
2/25/2019	
2/26/2019	
2/27/2019	<0.005
3/28/2019	
3/29/2019	
4/1/2019	<0.005
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	<0.005
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	0.0041 (J)
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.005
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	<0.005
9/24/2020	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
9/25/2020	
2/9/2021	
2/10/2021	0.00078 (J)
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	<0.005
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	<0.005
9/1/2021	
2/8/2022	
2/9/2022	0.0018 (J)
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	<0.005
2/7/2023	
2/8/2023	0.0024 (J)
2/9/2023	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
6/8/2016							<0.005
8/1/2016							<0.005
9/2/2016			<0.005				
9/20/2016							<0.005
11/8/2016							<0.005
11/14/2016			<0.005				
1/17/2017							<0.005
2/28/2017			0.0006 (J)				
3/8/2017							<0.005
5/2/2017							<0.005
5/9/2017			0.0006 (J)				
7/7/2017							<0.005
7/13/2017			<0.005				
9/22/2017			<0.005				
9/29/2017			<0.005				
10/6/2017			<0.005				
10/12/2017		0.0014 (J)					
11/21/2017		0.0008 (J)					
1/11/2018		0.0006 (J)					
2/20/2018		<0.005					
3/30/2018			<0.005				<0.005
4/3/2018		0.0012 (J)					
6/12/2018							<0.005
6/13/2018			0.00066 (J)				
6/29/2018		0.0011 (J)					
8/6/2018		<0.005					
9/24/2018		0.00094 (J)					
9/26/2018			<0.005				<0.005
10/16/2018	0.00069 (J)						
3/5/2019							<0.005
3/6/2019			<0.005				
4/4/2019			<0.005				<0.005
9/26/2019	<0.005		<0.005				<0.005
3/25/2020	<0.005		<0.005				
3/26/2020							0.0015 (J)
9/23/2020							<0.005
9/24/2020	<0.005						
9/25/2020		<0.005					
10/7/2020			<0.005				
2/9/2021		0.0015 (J)					<0.005
2/10/2021	0.00096 (J)		0.00088 (J)				
3/3/2021							<0.005
3/4/2021	<0.005	<0.005	<0.005				
8/25/2021		0.0014 (J)					
9/1/2021	<0.005						<0.005
9/3/2021			<0.005	<0.005			
2/10/2022	0.0018 (J)	0.0017 (J)				0.0013 (J)	0.0024 (J)
2/11/2022			0.0014 (J)	<0.005	0.0014 (J)		
8/31/2022	<0.005						
9/1/2022		<0.005	<0.005	<0.005	<0.005	<0.005	
2/8/2023		<0.005		<0.005	0.0032 (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 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
2/10/2023							0.0035 (J)

Time Series

Constituent: Barium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							0.028	0.019	
6/7/2016						0.012			0.014
7/27/2016						0.0126	0.0294	0.0167	0.0141
7/28/2016									
9/16/2016						0.0127		0.0168	
9/19/2016							0.0247		0.0155
11/2/2016									0.0157
11/3/2016						0.0128	0.0248	0.0159	
1/11/2017						0.0142	0.0266	0.0162	
1/13/2017									0.0158
3/1/2017							0.0275	0.0195	
3/2/2017						0.0155			
3/6/2017									0.0163
4/26/2017							0.024	0.0182	0.0177
5/2/2017						0.0138			
6/28/2017							0.0237	0.018	
6/29/2017						0.0128			0.017
3/28/2018						0.014	0.024	0.021	
3/29/2018									0.014
6/5/2018									
6/6/2018									0.015
6/7/2018							0.023		
6/11/2018						0.013		0.019	
9/25/2018						0.014	0.023	0.019	0.015
10/16/2018	0.048								
3/5/2019						0.015		0.02	0.016
3/6/2019							0.024		
4/2/2019						0.016			
4/3/2019							0.025	0.017	0.018
9/24/2019									
9/25/2019						0.015			0.014
9/26/2019	0.047						0.021	0.017	
2/11/2020						0.015	0.022	0.019	
2/12/2020									0.014
3/24/2020						0.015	0.021	0.017	0.015
3/25/2020	0.04								
9/23/2020		0.0092 (J)		0.0063 (J)		0.015	0.021	0.016	
9/24/2020	0.028				0.057				0.015
2/9/2021	0.039	0.0085 (J)		0.02	0.042		0.023	0.017	0.015
3/3/2021	0.035	0.0082		0.021		0.017	0.023	0.017	0.015
3/4/2021					0.039				
8/25/2021				0.0037 (J)					
8/26/2021					0.036			0.015	
8/27/2021						0.016	0.02		0.013
9/1/2021	0.075	0.0072							
2/9/2022						0.017	0.021	0.014	0.014
2/10/2022	0.084	0.0074	0.038	0.0033 (J)	0.034				
8/30/2022						0.017	0.017	0.012	
8/31/2022	0.085								0.011
9/1/2022		0.0092	0.024	0.003 (J)	0.034				
2/7/2023						0.017	0.019	0.012	0.014
2/8/2023		0.0064		0.003 (J)	0.039				

Time Series

Constituent: Barium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/9/2023	0.078		0.045						

Time Series

Constituent: Barium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-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 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWA-21I (bg)

2/9/2023

Time Series

Constituent: Barium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-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 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
4/3/2019			0.017	0.0087 (J)	0.023				
4/4/2019						0.019			
8/21/2019	0.015	0.035							
8/22/2019							0.019	0.021	0.031
9/24/2019				0.0075 (J)	0.019				
9/25/2019			0.015						
9/27/2019						0.018			
10/9/2019	0.013	0.036					0.019	0.021	0.027
2/12/2020	0.011	0.035	0.012	0.0079 (J)	0.021				
3/24/2020		0.033		0.0076 (J)	0.021				
3/25/2020	0.014		0.016				0.018	0.021	0.03
3/26/2020						0.027			
9/22/2020			0.013	0.0076 (J)	0.019				
9/24/2020	0.016	0.028				0.035			0.026
9/25/2020							0.015	0.016	
2/8/2021				0.0079 (J)	0.02				
2/9/2021			0.013			0.042	0.016		
2/10/2021	0.027	0.032						0.017	0.031
3/2/2021				0.014	0.019				
3/3/2021			0.014						
3/4/2021	0.028	0.032				0.043	0.016	0.017	0.03
8/25/2021						0.049			0.027
8/26/2021	0.038		0.012	0.0092	0.019		0.016	0.018	
9/3/2021		0.035							
9/27/2021									
2/8/2022	0.041	0.039						0.021	
2/10/2022				0.0084	0.02	0.058	0.016		0.026
2/11/2022			0.013						
8/30/2022				0.0079	0.017				
8/31/2022	0.035	0.035	0.013						
9/1/2022						0.053	0.014	0.019	0.023
2/7/2023	0.03			0.0075					
2/8/2023		0.037				0.053	0.016	0.022	0.023
2/9/2023			0.014		0.019				

Time Series

Constituent: Barium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	0.0065 (J)
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	0.0092 (J)
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	0.0144
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	0.0173
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	0.0183
10/11/2017	
10/12/2017	0.0205
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	0.024
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	0.035
9/24/2018	
9/26/2018	
9/27/2018	
3/4/2019	
3/6/2019	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
4/3/2019	
4/4/2019	
8/21/2019	0.03
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	0.04
2/12/2020	
3/24/2020	
3/25/2020	0.033
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	0.046
2/8/2021	
2/9/2021	0.041
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	0.039
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	0.0097
2/8/2022	0.029
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	0.029
2/7/2023	
2/8/2023	0.031
2/9/2023	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			0.032						
9/11/2007			0.017						
3/20/2008			0.025						
8/27/2008			0.041						
3/3/2009			0.053						
11/18/2009			0.05						
3/3/2010			0.061						
9/8/2010			0.071						
3/10/2011			0.057						
9/8/2011			0.057						
3/5/2012			0.061						
9/10/2012			0.055						
2/6/2013			0.061						
8/12/2013			0.055						
2/5/2014			0.063						
8/5/2014			0.038						
2/4/2015			0.039						
8/3/2015			0.031						
2/16/2016			0.045						
6/1/2016					0.008	0.012			
6/2/2016				0.0081				0.0064	0.01
7/25/2016						0.0091 (J)		0.0071 (J)	
7/26/2016				0.0082 (J)	0.006 (J)				0.0088 (J)
8/30/2016		0.0413							
8/31/2016			0.0542						
9/1/2016	0.077								
9/13/2016					0.0084 (J)	0.008 (J)			
9/14/2016							0.0037 (J)		
9/15/2016				0.0087 (J)					0.009 (J)
9/19/2016								0.0069 (J)	
11/1/2016					0.0062 (J)			0.007 (J)	0.0079 (J)
11/2/2016				0.0082 (J)					
11/4/2016						0.0067 (J)	0.0059 (J)		
11/14/2016		0.0383							
11/15/2016	0.0772								
11/28/2016			0.0529						
12/15/2016							0.0056 (J)		
1/10/2017				0.0086 (J)					
1/11/2017					0.0069 (J)				0.0075 (J)
1/16/2017						0.0096 (J)	0.0049 (J)	0.0071 (J)	
2/21/2017								0.0077 (J)	
2/22/2017			0.0607						
2/24/2017		0.0351							
2/27/2017	0.0888								
3/1/2017									
3/2/2017					0.0071 (J)	0.0112			0.009 (J)
3/3/2017							0.0046 (J)		
3/8/2017				0.0088 (J)					
4/26/2017				0.0085 (J)				0.0074 (J)	0.0078 (J)
4/27/2017					0.0064 (J)	0.0106			
4/28/2017							0.0039 (J)		
5/8/2017		0.0251	0.065						

Time Series

Constituent: Barium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	0.0792								
5/26/2017							0.0034 (J)		
6/27/2017					0.0054 (J)	0.0092 (J)			
6/28/2017							0.003 (J)		0.0071 (J)
6/30/2017				0.0081 (J)				0.0076 (J)	
7/11/2017		0.0233							
7/13/2017	0.0839								
7/17/2017			0.06						
10/10/2017		0.0207							
10/11/2017	0.078								
10/16/2017			0.0542						
2/19/2018			0.0533						
3/27/2018				<0.01		<0.01		<0.01	
3/28/2018							<0.01		<0.01
3/29/2018					<0.01				
4/2/2018		0.022							
4/4/2018	0.074								
6/5/2018					0.0069 (J)				
6/6/2018						0.0082 (J)			
6/7/2018							0.0037 (J)		0.0068 (J)
6/8/2018				0.007 (J)					
6/11/2018								0.007 (J)	
8/6/2018			0.044						
9/19/2018		0.023							
9/20/2018	0.074								
10/1/2018				0.007 (J)	0.0062 (J)	0.0084 (J)	0.0038 (J)		0.0065 (J)
10/2/2018								0.0069 (J)	
2/25/2019			0.045						
2/26/2019				0.0067 (J)				0.007 (J)	
2/27/2019					0.0074 (J)	0.008 (J)	0.0035 (J)		0.0059 (J)
3/28/2019					0.0082 (J)	0.0082 (J)			
3/29/2019				0.0066 (J)			0.0039 (J)		
4/1/2019								0.0072 (J)	0.0064 (J)
6/12/2019			0.063						
8/19/2019			0.065						
8/20/2019		0.024							
9/24/2019					0.0072 (J)	0.0086 (J)	0.0038 (J)		
9/25/2019				0.0071 (J)				0.0066 (J)	0.0059 (J)
9/26/2019	0.065								
10/8/2019		0.025	0.058						
2/10/2020					0.0066 (J)	0.0091 (J)			
2/11/2020							0.0036 (J)		
2/12/2020				0.007 (J)				0.0073 (J)	0.0062 (J)
3/17/2020		0.035	0.047						
3/18/2020				0.0076 (J)		0.0084 (J)			
3/19/2020					0.0076 (J)		0.0036 (J)	0.0074 (J)	0.0072 (J)
3/25/2020	0.071								
8/26/2020			0.044						
8/27/2020		0.027							
9/22/2020		0.026	0.045						
9/23/2020					0.0068 (J)	0.0079 (J)	0.0039 (J)		0.0051 (J)
9/24/2020	0.066							0.0062 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
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								

Time Series

Constituent: Barium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	0.0038
6/2/2016	
7/25/2016	0.0031 (J)
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	0.0027 (J)
9/15/2016	
9/19/2016	
11/1/2016	0.0027 (J)
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	0.0036 (J)
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	0.0036 (J)
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	0.0038 (J)
4/27/2017	
4/28/2017	
5/8/2017	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	0.004 (J)
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.01
3/29/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	
6/7/2018	
6/8/2018	0.0034 (J)
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	0.0034 (J)
10/2/2018	
2/25/2019	
2/26/2019	
2/27/2019	0.0034 (J)
3/28/2019	
3/29/2019	
4/1/2019	0.003 (J)
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	0.005 (J)
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	0.0031 (J)
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	0.0029 (J)
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	0.0039 (J)
9/24/2020	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
9/25/2020	
2/9/2021	
2/10/2021	0.0029 (J)
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	0.0031 (J)
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	0.0039 (J)
9/1/2021	
2/8/2022	
2/9/2022	0.0031 (J)
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	0.003 (J)
2/7/2023	
2/8/2023	0.0029 (J)
2/9/2023	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
6/8/2016							0.02
8/1/2016							0.02
9/2/2016			0.0409				
9/20/2016							0.0203
11/8/2016							0.0191
11/14/2016			0.0182				
1/17/2017							0.0192
2/28/2017			0.023				
3/8/2017							0.0189
5/2/2017							0.019
5/9/2017			0.0349				
7/7/2017							0.019
7/13/2017			0.0484				
9/22/2017			0.0491				
9/29/2017			0.0452				
10/6/2017			0.0508				
10/12/2017		0.064					
11/21/2017		0.0579					
1/11/2018		0.0549					
2/20/2018		0.0593					
3/30/2018			0.043				0.02
4/3/2018		0.051					
6/12/2018							0.018
6/13/2018			0.046				
6/29/2018		0.054					
8/6/2018		0.048					
9/24/2018		0.047					
9/26/2018			0.048				0.019
10/16/2018	0.063						
3/5/2019							0.019
3/6/2019			0.041				
4/4/2019			0.042				0.02
9/26/2019	0.039		0.025				0.017
3/25/2020	0.039		0.025				
3/26/2020							0.019
9/23/2020							0.026
9/24/2020	0.034						
9/25/2020		0.034					
10/7/2020			0.04				
2/9/2021		0.036					0.031
2/10/2021	0.032		0.035				
3/3/2021							0.025
3/4/2021	0.033	0.036	0.028				
8/25/2021		0.035					
9/1/2021	0.067						0.025
9/3/2021			0.038	0.015			
2/10/2022	0.074	0.029				0.017	0.026
2/11/2022			0.044	0.013	0.032		
8/31/2022	0.1						
9/1/2022		0.023	0.059	0.033	0.015	0.013	
2/8/2023		0.022		0.018	0.012		
2/9/2023	0.13		0.097			0.015	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
2/10/2023							0.031

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.0005	<0.003	
6/7/2016						<0.003			<0.0025
7/27/2016						<0.003	<0.0005	<0.003	<0.0025
7/28/2016									
9/16/2016						<0.003		<0.003	
9/19/2016							<0.0005		<0.0025
11/2/2016									<0.0025
11/3/2016						<0.003	<0.0005	<0.003	
1/11/2017						<0.003	<0.0005	<0.003	
1/13/2017									<0.0025
3/1/2017							<0.0005	<0.003	
3/2/2017						8E-05 (J)			
3/6/2017									<0.0025
4/26/2017							<0.0005	<0.003	<0.0025
5/2/2017						<0.003			
6/28/2017							<0.0005	<0.003	
6/29/2017						<0.003			<0.0025
3/28/2018						<0.003	<0.0005	<0.003	
3/29/2018									<0.0025
6/5/2018									
6/6/2018									8E-05 (J)
6/7/2018							<0.0005		
6/11/2018						9E-05 (J)		5.7E-05 (J)	
9/25/2018						8.9E-05 (J)	<0.0005	8.2E-05 (J)	6.1E-05 (J)
10/16/2018	<0.0005								
3/5/2019						9.1E-05 (J)		7.9E-05 (J)	0.00011 (J)
3/6/2019							<0.0005		
4/2/2019						9E-05 (J)			
4/3/2019							<0.0005	7.5E-05 (J)	6.4E-05 (J)
9/24/2019									
9/25/2019						8.1E-05 (J)			<0.0025
9/26/2019	<0.0005						<0.0005	8.4E-05 (J)	
1/15/2020					0.00017 (J)				
2/11/2020						7.8E-05 (J)	<0.0005	7.6E-05 (J)	
2/12/2020									7.8E-05 (J)
3/24/2020						8E-05 (J)	<0.0005	8.9E-05 (J)	7.6E-05 (J)
3/25/2020	0.00037 (J)								
9/23/2020		<0.0005		<0.0005		8.1E-05 (J)	<0.0005	8.8E-05 (J)	
9/24/2020	5.8E-05 (J)				8.6E-05 (J)				8.3E-05 (J)
2/9/2021	<0.0005	5.1E-05 (J)		<0.0005	0.00015 (J)		<0.0005	9.8E-05 (J)	6.8E-05 (J)
3/3/2021	<0.0005	<0.0005		<0.0005		9.9E-05 (J)	<0.0005	0.00011 (J)	6.8E-05 (J)
3/4/2021					0.00013 (J)				
8/25/2021				<0.0005					
8/26/2021					0.00012 (J)			9.3E-05 (J)	
8/27/2021						0.0001 (J)	<0.0005		5.9E-05 (J)
9/1/2021	9.5E-05 (J)	6.5E-05 (J)							
2/9/2022						0.00011 (J)	<0.0005	8.9E-05 (J)	7.7E-05 (J)
2/10/2022	0.00016 (J)	7.4E-05 (J)	7.8E-05 (J)	<0.0005	0.00013 (J)				
8/30/2022						0.0001 (J)	<0.0005	8.2E-05 (J)	
8/31/2022	0.00011 (J)								<0.0025
9/1/2022		5.7E-05 (J)	0.00011 (J)	<0.0005	0.00011 (J)				
2/7/2023						9.6E-05 (J)	<0.0005	7.1E-05 (J)	7.4E-05 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/8/2023		5.5E-05 (J)		<0.0005	0.00013 (J)				
2/9/2023	0.00012 (J)		6.2E-05 (J)						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-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 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
2/8/2023	
2/9/2023	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-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						<0.003			
7/26/2016			<0.0005	<0.0005	<0.0005				
7/28/2016						<0.003			
8/30/2016									9E-05 (J)
8/31/2016									
9/14/2016			<0.0005	<0.0005	<0.0005				
9/20/2016						0.0001 (J)			
11/2/2016			<0.0005	<0.0005					
11/4/2016					<0.0005				
11/8/2016						<0.003			
11/16/2016									<0.0005
1/12/2017				<0.0005	<0.0005				
1/13/2017			<0.0005						
1/16/2017						0.0001 (J)			
2/24/2017									
2/27/2017									<0.0005
3/6/2017			<0.0005						
3/7/2017				<0.0005	<0.0005				
3/9/2017						0.0001 (J)			
5/1/2017			<0.0005	<0.0005					
5/2/2017					<0.0005	9E-05 (J)			
5/10/2017									9E-05 (J)
6/27/2017				<0.0005	<0.0005				
6/29/2017			<0.0005						
7/10/2017						<0.003			
7/11/2017									0.0001 (J)
10/11/2017	<0.0005								
10/12/2017		0.0002 (J)					0.0057	0.0036	<0.0005
11/20/2017	<0.0005	0.0003 (J)					0.0053		
11/21/2017								0.0036	
1/10/2018		0.0003 (J)							
1/11/2018	<0.0005							0.0037	
1/12/2018							0.0053		
2/19/2018		<0.003						0.0039	
2/20/2018	<0.0005						0.0053		
3/29/2018			<0.0005	<0.0005	<0.0005				
3/30/2018						<0.003			
4/3/2018	<0.0005	<0.003					0.0056	0.0037	
4/4/2018									<0.0005
6/6/2018				<0.0005					
6/7/2018			<0.0005		<0.0005				
6/12/2018						8.1E-05 (J)			
6/27/2018								0.0038	
6/28/2018	<0.0005	0.00029 (J)					0.0059		
8/7/2018	<0.0005	0.00024 (J)					0.0058	0.0037	
9/20/2018									<0.0005
9/24/2018	<0.0005	0.00019 (J)					0.0051	0.0032	
9/26/2018			<0.0005	<0.0005	<0.0005				
9/27/2018						9E-05 (J)			
3/4/2019			<0.0005	<0.0005	<0.0005				
3/6/2019						6.6E-05 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-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				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.003
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.003
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.003
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	<0.003
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.003
10/11/2017	
10/12/2017	0.0001 (J)
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.003
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	0.00029 (J)
9/24/2018	
9/26/2018	
9/27/2018	
3/4/2019	
3/6/2019	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
4/3/2019	
4/4/2019	
8/21/2019	0.0003 (J)
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	0.00034 (J)
2/12/2020	
3/24/2020	
3/25/2020	0.00034 (J)
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	0.00054 (J)
2/8/2021	
2/9/2021	0.00053 (J)
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	0.00056
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	0.00015 (J)
2/8/2022	0.00037 (J)
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	0.00033 (J)
2/7/2023	
2/8/2023	0.00036 (J)
2/9/2023	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			<0.0005						
9/11/2007			<0.0005						
3/20/2008			<0.0005						
8/27/2008			<0.0005						
3/3/2009			<0.0005						
11/18/2009			<0.0005						
3/3/2010			<0.0005						
9/8/2010			<0.0005						
3/10/2011			<0.0005						
9/8/2011			<0.0005						
3/5/2012			<0.0005						
9/10/2012			<0.0005						
2/6/2013			<0.0005						
8/12/2013			<0.0005						
2/5/2014			<0.0005						
8/5/2014			<0.0005						
2/4/2015			<0.0005						
8/3/2015			<0.0005						
2/16/2016			<0.0005						
6/1/2016					<0.0005	<0.0025			
6/2/2016				<0.003				<0.0005	<0.0005
7/25/2016						<0.0025		<0.0005	
7/26/2016				0.0002 (J)	<0.0005				<0.0005
8/30/2016		<0.0005							
8/31/2016			<0.0005						
9/1/2016	0.0001 (J)								
9/13/2016					<0.0005	<0.0025			
9/14/2016							<0.0005		
9/15/2016				0.0002 (J)					<0.0005
9/19/2016								<0.0005	
11/1/2016					<0.0005			<0.0005	<0.0005
11/2/2016				0.0002 (J)					
11/4/2016						<0.0025	<0.0005		
11/14/2016		<0.0005							
11/15/2016	0.0001 (J)								
11/28/2016			<0.0005						
12/15/2016							<0.0005		
1/10/2017				0.0002 (J)					
1/11/2017					<0.0005				<0.0005
1/16/2017						<0.0025	<0.0005	<0.0005	
2/21/2017								<0.0005	
2/22/2017			<0.0005						
2/24/2017		<0.0005							
2/27/2017	0.0001 (J)								
3/1/2017									
3/2/2017					<0.0005	<0.0025			<0.0005
3/3/2017							<0.0005		
3/8/2017				0.0002 (J)					
4/26/2017				0.0002 (J)				<0.0005	<0.0005
4/27/2017					<0.0005	<0.0025			
4/28/2017							<0.0005		
5/8/2017		7E-05 (J)	<0.0005						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	0.0001 (J)								
5/26/2017							<0.0005		
6/27/2017					<0.0005	<0.0025			
6/28/2017							<0.0005		<0.0005
6/30/2017				0.0002 (J)				<0.0005	
7/11/2017		<0.0005							
7/13/2017	0.0001 (J)								
7/17/2017			<0.0005						
10/10/2017		<0.0005							
10/11/2017	0.0001 (J)								
10/16/2017			<0.0005						
2/19/2018			<0.0005						
3/27/2018				<0.003		<0.0025		<0.0005	
3/28/2018							<0.0005		<0.0005
3/29/2018					<0.0005				
4/2/2018		<0.0005							
4/4/2018	<0.003								
8/6/2018			<0.0005						
9/19/2018		5.7E-05 (J)							
9/20/2018	0.00011 (J)								
2/25/2019			<0.0005						
2/26/2019				0.00016 (J)				7.2E-05 (J)	
2/27/2019					<0.0005	<0.0025	<0.0005		<0.0005
3/28/2019					<0.0005	<0.0025			
3/29/2019				0.00017 (J)			<0.0005		
4/1/2019								<0.0005	<0.0005
6/12/2019			<0.0005						
8/19/2019			<0.0005						
8/20/2019		<0.0005							
9/24/2019					<0.0005	<0.0025	<0.0005		
9/25/2019				0.00018 (J)				<0.0005	<0.0005
9/26/2019	0.00013 (J)								
10/8/2019			<0.0005						
2/10/2020					<0.0005	<0.0025			
2/11/2020							<0.0005		
2/12/2020				0.00019 (J)				<0.0005	<0.0005
3/17/2020			<0.0005						
3/18/2020				0.00021 (J)		<0.0025			
3/19/2020					<0.0005		<0.0005	<0.0005	<0.0005
3/25/2020	0.00013 (J)								
8/26/2020			<0.0005						
8/27/2020		4.7E-05 (J)							
9/22/2020		<0.0005	<0.0005						
9/23/2020					<0.0005	<0.0025	<0.0005		<0.0005
9/24/2020	0.00013 (J)							<0.0005	
9/25/2020				0.00018 (J)					
2/9/2021	0.00013 (J)								
2/10/2021				0.00019 (J)			<0.0005		<0.0005
2/11/2021								4.7E-05 (J)	
2/12/2021					<0.0005	<0.0025			
3/1/2021		5.5E-05 (J)						<0.0005	
3/2/2021			<0.0005	0.00018 (J)					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
3/3/2021					<0.0005	<0.0025	<0.0005		<0.0005
3/4/2021	0.0001 (J)								
8/19/2021		<0.0005		0.00022 (J)	<0.0005	<0.0025		<0.0005	<0.0005
8/20/2021			<0.0005						
8/27/2021							<0.0005		
9/1/2021	0.00012 (J)								
2/8/2022	0.00015 (J)	5.6E-05 (J)	<0.0005						
2/9/2022					<0.0005	<0.0025	<0.0005		<0.0005
2/10/2022				0.00025 (J)					
2/11/2022								<0.0005	
8/30/2022			<0.0005		<0.0005		<0.0005		
8/31/2022	0.00017 (J)	<0.0005		0.0002 (J)		<0.0025		<0.0005	<0.0005
2/7/2023			<0.0005		0.0011	0.00054	<0.0005		
2/8/2023		<0.0005		0.00022 (J)				<0.0005	<0.0005
2/9/2023	0.00012 (J)								

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	<0.0005
6/2/2016	
7/25/2016	<0.0005
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.0005
9/15/2016	
9/19/2016	
11/1/2016	<0.0005
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.0005
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.0005
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.0005
4/27/2017	
4/28/2017	
5/8/2017	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	<0.0005
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.0005
3/29/2018	
4/2/2018	
4/4/2018	
8/6/2018	
9/19/2018	
9/20/2018	
2/25/2019	
2/26/2019	
2/27/2019	<0.0005
3/28/2019	
3/29/2019	
4/1/2019	<0.0005
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	<0.0005
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	<0.0005
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.0005
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	5.9E-05 (J)
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	<0.0005
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
3/3/2021	<0.0005
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	<0.0005
9/1/2021	
2/8/2022	
2/9/2022	<0.0005
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	<0.0005
2/7/2023	
2/8/2023	<0.0005
2/9/2023	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
6/8/2016							<0.003
8/1/2016							0.0001 (J)
9/2/2016			0.0003 (J)				
9/20/2016							0.0001 (J)
11/8/2016							<0.003
11/14/2016			9E-05 (J)				
1/17/2017							0.0001 (J)
2/28/2017			0.0001 (J)				
3/8/2017							0.0001 (J)
5/2/2017							0.0001 (J)
5/9/2017			0.0002 (J)				
7/7/2017							0.0001 (J)
7/13/2017			0.0003 (J)				
9/22/2017			0.0003 (J)				
9/29/2017			0.0003 (J)				
10/6/2017			0.0003 (J)				
10/12/2017		0.0004 (J)					
11/21/2017		0.0004 (J)					
1/11/2018		0.0003 (J)					
2/20/2018		<0.003					
3/30/2018			<0.003				<0.003
4/3/2018		<0.003					
6/12/2018							0.00012 (J)
6/13/2018			0.00035 (J)				
6/29/2018		0.00033 (J)					
8/6/2018		0.0002 (J)					
8/30/2018	0.00052 (J)						
9/24/2018		0.00029 (J)					
9/26/2018			0.00032 (J)				0.00014 (J)
10/16/2018	0.00036 (J)						
3/5/2019							0.00016 (J)
3/6/2019			0.00029 (J)				
4/4/2019			0.00033 (J)				0.00015 (J)
9/26/2019	<0.003		0.00029 (J)				0.00014 (J)
3/25/2020	<0.003		0.00022 (J)				
3/26/2020							0.00016 (J)
9/23/2020							6.1E-05 (J)
9/24/2020	0.00033 (J)						
9/25/2020		0.00031 (J)					
10/7/2020			0.00014 (J)				
2/9/2021		0.00029 (J)					0.00013 (J)
2/10/2021	0.00025 (J)		9.9E-05 (J)				
3/3/2021							9.9E-05 (J)
3/4/2021	0.00025 (J)	0.00017 (J)	0.00016 (J)				
8/25/2021		0.00059					
9/1/2021	0.00045 (J)						0.00014 (J)
9/3/2021			0.00035 (J)	<0.0005			
2/10/2022	0.00055	0.001				0.0033	0.00016 (J)
2/11/2022			0.00043 (J)	<0.0005	5.9E-05 (J)		
8/31/2022	0.00061						
9/1/2022		0.0011	0.00053	<0.0005	<0.0005	0.0031	
2/8/2023		0.0011		<0.0005	<0.0005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
2/9/2023	0.0008		0.00066			0.0024	
2/10/2023							5.4E-05 (J)

Time Series

Constituent: Boron (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	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 4/26/2023 11:07 AM

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 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.04	<0.04	<0.04				
6/7/2016						0.99			
7/26/2016			0.0047 (J)	0.0052 (J)	<0.04				
7/28/2016						1.09			
8/30/2016									24.7
8/31/2016									
9/14/2016			<0.04	0.0071 (J)	0.01 (J)				
9/20/2016						1.35			
11/2/2016			<0.04	<0.04					
11/4/2016					<0.04				
11/8/2016						1.5			
11/16/2016									16.4
1/12/2017				0.0076 (J)	<0.04				
1/13/2017			<0.04						
1/16/2017						1.67			
2/24/2017									
2/27/2017									17.9
3/6/2017			<0.04						
3/7/2017				0.0089 (J)	<0.04				
3/9/2017						1.44			
5/1/2017			<0.04	0.0061 (J)					
5/2/2017					<0.04	1.2			
5/10/2017									20.4
6/27/2017				0.0079 (J)	<0.04				
6/29/2017			<0.04						
7/10/2017						1.12			
7/11/2017									25.2
10/3/2017				0.0094 (J)	<0.04				
10/5/2017			<0.04						
10/11/2017	0.0135 (J)					1.09			
10/12/2017		0.0401					19.3	12	20
11/20/2017	0.0251 (J)	0.156					21.8		
11/21/2017								12.1	
1/10/2018		0.15							
1/11/2018	0.0255 (J)							12.8	
1/12/2018							18.7		
2/19/2018		0.146						15.2	
2/20/2018	<0.04						18.6		
4/3/2018	0.033 (J)	0.12					20.9	14.5	
4/4/2018									22.7
6/6/2018				0.0098 (J)					
6/7/2018			0.0045 (J)		<0.04				
6/12/2018						0.9			
6/27/2018								14.1	
6/28/2018	0.053	0.16					22.7		
8/7/2018	0.024 (J)	0.12					19.1	11.9	
9/20/2018									20.3
9/24/2018	0.028 (J)	0.099					18.4	12.2	
9/26/2018			0.005 (J)	0.01 (J)	0.0057 (J)				
9/27/2018						0.71			
3/26/2019		0.096							
3/27/2019	0.017 (J)						16.7		20.3

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/28/2019								7.1	
4/3/2019			0.0055 (J)	0.0076 (J)	0.0044 (J)				
4/4/2019						0.6			
9/24/2019				0.01 (J)	0.0049 (J)				
9/25/2019			<0.04						
9/27/2019						0.58			
10/9/2019	0.017 (J)	0.079					13.5	8.6	16.6
3/24/2020		0.088 (J)		0.011 (J)	0.0068 (J)				
3/25/2020	0.043 (J)		0.011 (J)				9.3	7.9	15.5
3/26/2020						0.94			
9/22/2020			<0.04	0.0079 (J)	0.0053 (J)				
9/24/2020	0.037 (J)	0.087 (J)				1.1			15.2
9/25/2020							8	6	
3/2/2021				0.0068 (J)	0.011 (J)				
3/3/2021			0.0056 (J)						
3/4/2021	0.033 (J)	0.078				1.2	6.4	4	14.8
8/25/2021						1.3			13.5
8/26/2021	0.095		<0.04	0.009 (J)	<0.04		6.1	3.3	
9/3/2021		0.077							
9/27/2021									
2/8/2022	0.13	0.074						4	
2/10/2022				0.011 (J)	<0.04	1.5	5.4		14.4
2/11/2022			<0.04						
8/30/2022				0.0098 (J)	<0.04				
8/31/2022	0.14	0.062	<0.04						
9/1/2022						1.5	4.8	3.6	13.4
2/7/2023	0.13			<0.04					
2/8/2023		0.057				1.6	4.1	3.3	14.5
2/9/2023			<0.04		<0.04				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	0.169
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	0.406
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	0.725
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	0.955
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	0.994
10/3/2017	
10/5/2017	
10/11/2017	
10/12/2017	1.15
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
4/3/2018	
4/4/2018	1.2
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	2.1
9/24/2018	
9/26/2018	
9/27/2018	
3/26/2019	
3/27/2019	

Time Series

Constituent: Boron (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
3/28/2019	1.8
4/3/2019	
4/4/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	2.7
3/24/2020	
3/25/2020	2.4
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	3.9
3/2/2021	
3/3/2021	
3/4/2021	3.6
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	0.64
2/8/2022	2.3
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	2.6
2/7/2023	
2/8/2023	2.5
2/9/2023	

Time Series

Constituent: Boron (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016					<0.04	<0.04			
6/2/2016				<0.1				<0.04	<0.04
7/25/2016						<0.04		<0.04	
7/26/2016				0.0177 (J)	0.0055 (J)				0.0097 (J)
8/30/2016		0.0166 (J)							
8/31/2016			0.0315 (J)						
9/1/2016	0.0113 (J)								
9/13/2016					<0.04	<0.04			
9/14/2016							<0.04		
9/15/2016				0.0214 (J)					0.0102 (J)
9/19/2016								<0.04	
11/1/2016					0.0086 (J)			<0.04	<0.04
11/2/2016				<0.1					
11/4/2016						<0.04	<0.04		
11/14/2016		0.0166 (J)							
11/15/2016	0.0074 (J)								
11/28/2016			0.0095 (J)						
12/15/2016							0.0107 (J)		
1/10/2017				0.0198 (J)					
1/11/2017					0.0074 (J)				<0.04
1/16/2017						<0.04	<0.04	<0.04	
2/21/2017								<0.04	
2/22/2017			<0.04						
2/24/2017		0.0145 (J)							
2/27/2017	<0.04								
3/1/2017									
3/2/2017					0.008 (J)	<0.04			0.0084 (J)
3/3/2017							<0.04		
3/8/2017				0.0189 (J)					
4/26/2017				0.0161 (J)				<0.04	<0.04
4/27/2017					0.0066 (J)	<0.04			
4/28/2017							<0.04		
5/8/2017		0.0141 (J)	0.0084 (J)						
5/9/2017	<0.04								
5/26/2017							<0.04		
6/27/2017					0.0087 (J)	0.006 (J)			
6/28/2017							<0.04		<0.04
6/30/2017				0.0173 (J)				<0.04	
7/11/2017		0.0131 (J)							
7/13/2017	0.0093 (J)								
7/17/2017			0.0092 (J)						
10/3/2017					0.0072 (J)	0.0071 (J)	<0.04		
10/4/2017								<0.04	<0.04
10/5/2017				0.0173 (J)					
10/10/2017		0.0124 (J)							
10/11/2017	<0.04								
10/16/2017			<0.04						
2/19/2018			<0.04						
4/2/2018		0.013 (J)							
4/4/2018	0.0041 (J)								
6/5/2018					0.0052 (J)				
6/6/2018						<0.04			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/7/2018							<0.04		0.004 (J)
6/8/2018				0.013 (J)					
6/11/2018								0.014 (J)	
8/6/2018			<0.04						
9/19/2018		0.012 (J)							
9/20/2018	0.0042 (J)								
10/1/2018				0.015 (J)	0.021 (J)	0.0049 (J)	<0.04		<0.04
10/2/2018								<0.04	
2/25/2019			<0.04						
3/27/2019		0.013 (J)							
3/28/2019	<0.04				0.005 (J)	<0.04			
3/29/2019				0.014 (J)			0.0065 (J)		
4/1/2019								<0.04	<0.04
6/12/2019			<0.04						
9/24/2019					0.0064 (J)	0.0055 (J)	0.0076 (J)		
9/25/2019				0.018 (J)				<0.04	0.0054 (J)
9/26/2019	<0.04								
10/8/2019		0.012 (J)	<0.04						
3/17/2020		0.023 (J)	0.0051 (J)						
3/18/2020				0.02 (J)		0.0087 (J)			
3/19/2020					0.0085 (J)		0.0073 (J)	0.0052 (J)	0.0073 (J)
3/25/2020	0.012 (J)								
9/22/2020		0.0076 (J)	0.0079 (J)						
9/23/2020					<0.04	<0.04	<0.04		0.012 (J)
9/24/2020	0.062 (J)							0.0075 (J)	
9/25/2020				0.02 (J)					
3/1/2021		0.013 (J)						<0.04	
3/2/2021			<0.04	0.017 (J)					
3/3/2021					<0.04	<0.04	<0.04		<0.04
3/4/2021	<0.04								
8/19/2021		0.011 (J)		0.018 (J)	<0.04	<0.04		<0.04	<0.04
8/20/2021			<0.04						
8/27/2021							<0.04		
9/1/2021	<0.04								
2/8/2022	<0.04	0.015 (J)	<0.04						
2/9/2022					<0.04	<0.04	<0.04		0.01 (J)
2/10/2022				0.02 (J)					
2/11/2022								<0.04	
8/30/2022			<0.04		<0.04		<0.04		
8/31/2022	0.011 (J)	0.0091 (J)		0.015 (J)		<0.04		<0.04	<0.04
2/7/2023			<0.04		<0.04	<0.04	<0.04		
2/8/2023		0.011 (J)		0.015 (J)				<0.04	<0.04
2/9/2023	0.014 (J)								

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/1/2016	<0.04
6/2/2016	
7/25/2016	<0.04
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.04
9/15/2016	
9/19/2016	
11/1/2016	<0.04
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.04
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.04
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.04
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	<0.04
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/3/2017	
10/4/2017	<0.04
10/5/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	

Time Series

Constituent: Boron (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/7/2018	
6/8/2018	<0.04
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	<0.04
10/2/2018	
2/25/2019	
3/27/2019	
3/28/2019	
3/29/2019	
4/1/2019	<0.04
6/12/2019	
9/24/2019	
9/25/2019	<0.04
9/26/2019	
10/8/2019	
3/17/2020	
3/18/2020	
3/19/2020	0.0053 (J)
3/25/2020	
9/22/2020	
9/23/2020	0.0073 (J)
9/24/2020	
9/25/2020	
3/1/2021	
3/2/2021	
3/3/2021	<0.04
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	<0.04
9/1/2021	
2/8/2022	
2/9/2022	<0.04
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	<0.04
2/7/2023	
2/8/2023	<0.04
2/9/2023	

Time Series

Constituent: Boron (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
6/8/2016							<0.04
8/1/2016							<0.04
9/2/2016			0.133				
9/20/2016							<0.04
11/8/2016							<0.04
11/14/2016			0.287				
1/17/2017							<0.04
2/28/2017			0.215				
3/8/2017							<0.04
5/2/2017							0.0099 (J)
5/9/2017			0.233				
7/7/2017							0.0076 (J)
7/13/2017			0.262				
9/22/2017			0.238				
9/29/2017			0.235				
10/5/2017							<0.04
10/6/2017			0.256				
10/11/2017			0.245				
10/12/2017		15.4					
11/21/2017		17.2					
1/11/2018		15.8					
2/20/2018		19.5					
4/3/2018		17.5					
6/12/2018							0.018 (J)
6/13/2018			0.25				
6/29/2018		20.6					
8/6/2018		15.9					
8/30/2018	0.04						
9/24/2018		16.5					
9/26/2018			0.24				0.0055 (J)
10/16/2018	0.031 (J)						
4/4/2019			0.22				<0.04
9/26/2019	<0.04		0.13				0.0068 (J)
3/25/2020	0.071 (J)		0.11				
3/26/2020							0.033 (J)
9/23/2020							<0.04
9/24/2020	0.017 (J)						
9/25/2020		14.1					
10/7/2020			0.018 (J)				
3/3/2021							<0.04
3/4/2021	0.012 (J)	12.4	0.0088 (J)				
8/25/2021		10.3					
9/1/2021	0.044						<0.04
9/3/2021			0.012 (J)	1.6			
2/10/2022	0.054	9.5				6.8	<0.04
2/11/2022			0.019 (J)	0.44	0.84		
8/31/2022	0.052						
9/1/2022		9.9	0.067	0.83	1.2	7.2	
2/8/2023		8.2		0.7	1.2		
2/9/2023	0.076		0.028 (J)			6.9	
2/10/2023							<0.04

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.0005	<0.0005	
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 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/9/2023	<0.0005		<0.0005						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-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 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
2/9/2023	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-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	<0.0025								
10/12/2017		<0.0005					0.003	0.0002 (J)	0.0006 (J)
11/20/2017	<0.0025	<0.0005					0.0027		
11/21/2017								0.0003 (J)	
1/10/2018		<0.0005							
1/11/2018	<0.0025							0.0002 (J)	
1/12/2018							0.0029		
2/19/2018		<0.0005						<0.0005	
2/20/2018	<0.0025						0.0029		
3/29/2018			<0.0005	<0.0005	<0.0005				
3/30/2018						<0.0005			
4/3/2018	<0.0025	<0.0005					0.0027	<0.0005	
4/4/2018									<0.0005
6/6/2018				<0.0005					
6/7/2018			<0.0005		<0.0005				
6/12/2018						<0.0005			
6/27/2018								0.00025 (J)	
6/28/2018	<0.0025	<0.0005					0.0029		
8/7/2018	<0.0025	<0.0005					0.0027	0.00024 (J)	
9/20/2018									0.0002 (J)
9/24/2018	<0.0025	<0.0005					0.0027	0.00021 (J)	
9/26/2018			<0.0005	<0.0005	<0.0005				
9/27/2018						<0.0005			
3/4/2019			<0.0005	<0.0005	<0.0005				
3/6/2019						<0.0005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-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	<0.0025	<0.0005							
8/22/2019							0.0023 (J)	0.00015 (J)	0.00017 (J)
9/24/2019				<0.0005	<0.0005				
9/25/2019			<0.0005						
9/27/2019						<0.0005			
10/9/2019	<0.0025	<0.0005					0.0021 (J)	0.00017 (J)	0.00025 (J)
2/12/2020	<0.0025	<0.0005	<0.0005	<0.0005	<0.0005				
3/24/2020		<0.0005		<0.0005	<0.0005				
3/25/2020	<0.0025		<0.0005				0.0018 (J)	0.00018 (J)	0.00021 (J)
3/26/2020						<0.0005			
9/22/2020			<0.0005	<0.0005	<0.0005				
9/24/2020	<0.0025	<0.0005				<0.0005			0.00014 (J)
9/25/2020							0.0015 (J)	0.00014 (J)	
2/8/2021				<0.0005	<0.0005				
2/9/2021			<0.0005			<0.0005	0.0014 (J)		
2/10/2021	0.00019 (J)	<0.0005						<0.0005	<0.0005
3/2/2021				<0.0005	<0.0005				
3/3/2021			<0.0005						
3/4/2021	0.0003 (J)	<0.0005				<0.0005	0.0013	<0.0005	<0.0005
8/25/2021						<0.0005			<0.0005
8/26/2021	0.00049 (J)		<0.0005	<0.0005	<0.0005		0.0011	<0.0005	
9/3/2021		<0.0005							
9/27/2021									
2/8/2022	0.00063	<0.0005						0.00012 (J)	
2/10/2022				<0.0005	<0.0005	<0.0005	0.0011		<0.0005
2/11/2022			<0.0005						
8/30/2022				<0.0005	<0.0005				
8/31/2022	0.00044 (J)	<0.0005	<0.0005						
9/1/2022						<0.0005	0.00094	<0.0005	<0.0005
2/7/2023	0.00014 (J)			<0.0005					
2/8/2023		<0.0005				<0.0005	0.00068	<0.0005	0.00014 (J)
2/9/2023			<0.0005		<0.0005				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.0005
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.0005
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.0005
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	<0.0005
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.0005
10/11/2017	
10/12/2017	<0.0005
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.0005
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	<0.0005
9/24/2018	
9/26/2018	
9/27/2018	
3/4/2019	
3/6/2019	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
4/3/2019	
4/4/2019	
8/21/2019	<0.0005
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	<0.0005
2/12/2020	
3/24/2020	
3/25/2020	<0.0005
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	<0.0005
2/8/2021	
2/9/2021	<0.0005
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.0005
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	<0.0005
2/8/2022	<0.0005
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	<0.0005
2/7/2023	
2/8/2023	<0.0005
2/9/2023	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			<0.0005						
9/11/2007			<0.0005						
3/20/2008			<0.0005						
8/27/2008			<0.0005						
3/3/2009			<0.0005						
11/18/2009			<0.0005						
3/3/2010			<0.0005						
9/8/2010			<0.0005						
3/10/2011			<0.0005						
9/8/2011			<0.0005						
3/5/2012			<0.0005						
9/10/2012			<0.0005						
2/6/2013			<0.0005						
8/12/2013			<0.0005						
2/5/2014			<0.0005						
8/5/2014			<0.0005						
2/4/2015			<0.0005						
8/3/2015			<0.0005						
2/16/2016			<0.0005						
6/1/2016					<0.0005	<0.0005			
6/2/2016				<0.0005				<0.0005	<0.0005
7/25/2016						<0.0005		<0.0005	
7/26/2016				<0.0005	<0.0005				<0.0005
8/30/2016		0.0001 (J)							
8/31/2016			<0.0005						
9/1/2016	<0.0005								
9/13/2016					<0.0005	<0.0005			
9/14/2016							<0.0005		
9/15/2016				<0.0005					<0.0005
9/19/2016								<0.0005	
11/1/2016					<0.0005			<0.0005	<0.0005
11/2/2016				<0.0005					
11/4/2016						<0.0005	<0.0005		
11/14/2016		0.0001 (J)							
11/15/2016	<0.0005								
11/28/2016			<0.0005						
12/15/2016							<0.0005		
1/10/2017				<0.0005					
1/11/2017					0.0002 (J)				0.0001 (J)
1/16/2017						<0.0005	<0.0005	<0.0005	
2/21/2017								<0.0005	
2/22/2017			<0.0005						
2/24/2017		9E-05 (J)							
2/27/2017	7E-05 (J)								
3/1/2017									
3/2/2017					<0.0005	<0.0005			<0.0005
3/3/2017							<0.0005		
3/8/2017				7E-05 (J)					
4/26/2017				<0.0005				<0.0005	<0.0005
4/27/2017					<0.0005	<0.0005			
4/28/2017							<0.0005		
5/8/2017		0.0001 (J)	<0.0005						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	<0.0005								
5/26/2017							<0.0005		
6/27/2017					<0.0005	<0.0005			
6/28/2017							<0.0005		<0.0005
6/30/2017				<0.0005				<0.0005	
7/11/2017		<0.0005							
7/13/2017	<0.0005								
7/17/2017			<0.0005						
10/10/2017		<0.0005							
10/11/2017	<0.0005								
10/16/2017			<0.0005						
2/19/2018			<0.0005						
3/27/2018				<0.0005		<0.0005		<0.0005	
3/28/2018							<0.0005		<0.0005
3/29/2018					<0.0005				
4/2/2018		<0.0005							
4/4/2018	<0.0005								
8/6/2018			<0.0005						
9/19/2018		<0.0005							
9/20/2018	<0.0005								
2/25/2019			<0.0005						
2/26/2019				<0.0005				<0.0005	
2/27/2019					<0.0005	<0.0005	<0.0005		<0.0005
3/28/2019					<0.0005	<0.0005			
3/29/2019				<0.0005			<0.0005		
4/1/2019								<0.0005	<0.0005
6/12/2019			<0.0005						
8/19/2019			<0.0005						
8/20/2019		<0.0005							
9/24/2019					<0.0005	<0.0005	<0.0005		
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 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
3/3/2021					<0.0005	<0.0005	<0.0005		<0.0005
3/4/2021	<0.0005								
8/19/2021		<0.0005		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
8/20/2021			<0.0005						
8/27/2021							<0.0005		
9/1/2021	<0.0005								
2/8/2022	<0.0005	<0.0005	<0.0005						
2/9/2022					<0.0005	<0.0005	<0.0005		<0.0005
2/10/2022				<0.0005					
2/11/2022								<0.0005	
8/30/2022			<0.0005		<0.0005		<0.0005		
8/31/2022	<0.0005	<0.0005		<0.0005		<0.0005		<0.0005	<0.0005
2/7/2023			0.00012 (J)		<0.0005	<0.0005	<0.0005		
2/8/2023		0.00032 (J)		<0.0005				<0.0005	<0.0005
2/9/2023	<0.0005								

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	<0.0005
6/2/2016	
7/25/2016	<0.0005
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.0005
9/15/2016	
9/19/2016	
11/1/2016	<0.0005
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	8E-05 (J)
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.0005
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.0005
4/27/2017	
4/28/2017	
5/8/2017	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	<0.0005
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.0005
3/29/2018	
4/2/2018	
4/4/2018	
8/6/2018	
9/19/2018	
9/20/2018	
2/25/2019	
2/26/2019	
2/27/2019	<0.0005
3/28/2019	
3/29/2019	
4/1/2019	<0.0005
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	<0.0005
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	<0.0005
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.0005
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	<0.0005
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	<0.0005
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
3/3/2021	<0.0005
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	<0.0005
9/1/2021	
2/8/2022	
2/9/2022	<0.0005
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	<0.0005
2/7/2023	
2/8/2023	0.00013 (J)
2/9/2023	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
6/8/2016							<0.0005
8/1/2016							<0.0005
9/2/2016			<0.0005				
9/20/2016							<0.0005
11/8/2016							<0.0005
11/14/2016			9E-05 (J)				
1/17/2017							<0.0005
2/28/2017			0.0001 (J)				
3/8/2017							<0.0005
5/2/2017							<0.0005
5/9/2017			0.0002 (J)				
7/7/2017							<0.0005
7/13/2017			0.0002 (J)				
9/22/2017			0.0002 (J)				
9/29/2017			0.0002 (J)				
10/6/2017			0.0002 (J)				
10/12/2017		0.0002 (J)					
11/21/2017		0.0002 (J)					
1/11/2018		0.0004 (J)					
2/20/2018		<0.001					
3/30/2018			<0.0005				<0.0005
4/3/2018		<0.001					
6/12/2018							<0.0005
6/13/2018			0.00019 (J)				
6/29/2018		0.00099 (J)					
8/6/2018		0.00063 (J)					
9/24/2018		0.00069 (J)					
9/26/2018			0.00018 (J)				<0.0005
10/16/2018	<0.0005						
3/5/2019							<0.0005
3/6/2019			0.00015 (J)				
4/4/2019			0.00019 (J)				<0.0005
9/26/2019	<0.0005		0.00017 (J)				<0.0005
3/25/2020	0.00016 (J)		0.00019 (J)				
3/26/2020							<0.0005
9/23/2020							<0.0005
9/24/2020	<0.0005						
9/25/2020		0.00039 (J)					
10/7/2020			0.00012 (J)				
2/9/2021		0.00042 (J)					<0.0005
2/10/2021	<0.0005		<0.0005				
3/3/2021							<0.0005
3/4/2021	<0.0005	0.00028 (J)	<0.0005				
8/25/2021		0.00094					
9/1/2021	<0.0005						<0.0005
9/3/2021			<0.0005	<0.0005			
2/10/2022	<0.0005	0.00093				0.0019	<0.0005
2/11/2022			<0.0005	<0.0005	<0.0005		
8/31/2022	0.00011 (J)						
9/1/2022		0.0009	<0.0005	<0.0005	<0.0005	0.0017	
2/8/2023		0.00076		<0.0005	<0.0005		
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 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
2/10/2023							<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							6.2	1.4	
6/7/2016						2.2			2.3
7/27/2016						2	4.73	1.19	2.08
7/28/2016									
9/16/2016						1.97		1.5	
9/19/2016							4.76		1.97
11/2/2016									2.13
11/3/2016						1.99	5.25	1.31	
1/11/2017						2.28	4.74	1.25	
1/13/2017									2.45
3/1/2017							5.37	1.26	
3/2/2017						2.15			
3/6/2017									2.48
4/26/2017							4.28	1.05	2.3
5/2/2017						1.95			
6/28/2017							4.95	1.06	
6/29/2017						2.02			2.54
10/3/2017									
10/4/2017						2.03		1.1	2.25
10/5/2017							5.28		
6/5/2018									
6/6/2018									2.3
6/7/2018							4.8		
6/11/2018						2.1		1.4	
9/25/2018						2.1	4.6	1	2.3
10/16/2018	14.5 (J)								
4/2/2019						2.5			
4/3/2019							5.3	1.2	2.9
9/24/2019									
9/25/2019						2.6			2.4
9/26/2019	9.3						4.9	1.1	
3/24/2020						2.7	5.3	1	2.6
3/25/2020	4.5								
9/23/2020		1.7		10.5		2.6	5.2	0.91 (J)	
9/24/2020	4.8				61.3				2.6
3/3/2021	6.9	1.5		20.6		2.5	5.2	0.96 (J)	2.4
3/4/2021					53.8				
8/25/2021				11					
8/26/2021					45			0.98 (J)	
8/27/2021						2.7	5.1		2.4
9/1/2021	16.8	1.4							
9/3/2021			42.5						
2/9/2022						2.8	5.1	0.87 (J)	2.3
2/10/2022	21.5	1.3	29.4	11.6	40.8				
8/30/2022						3	5.7	0.77 (J)	
8/31/2022	27								2.4
9/1/2022		1.4	34.4	11.1	43.7				
2/7/2023						2.9	5.5	0.79 (J)	2.4
2/8/2023		1.2		12	52.3				
2/9/2023	31.7		33						

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-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	

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
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 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/28/2019								26	
4/3/2019			8.4	24.7 (J)	2.8				
4/4/2019						3.7			
9/24/2019				25.8	2.5				
9/25/2019			9.5						
9/27/2019						3.7			
10/9/2019	2.4	4.9					133	27.6	92
3/24/2020		4.8		26.1	2.5				
3/25/2020	2.7		10.5				124	29.6	107
3/26/2020						5.6			
9/22/2020			9.6	27.2	2.6				
9/24/2020	3.7	4.4				7.9			84.3
9/25/2020							93.7	20.5	
3/2/2021				1.6	2.6				
3/3/2021			7.7						
3/4/2021	8.2	4.6				10.2	87	16.4	90.7
8/25/2021						10.6			79.9
8/26/2021	14.1		7.6	25.2	2.5		73.6	12.8	
9/3/2021		5.6							
9/27/2021									
2/8/2022	15.2	6						15	
2/10/2022				24.8	2.5	11.8	68.9		74.4
2/11/2022			7.5						
8/30/2022				24.8	2.5				
8/31/2022	16.3	6.2	8.9						
9/1/2022						11.2	59.4	12.9	68.5
2/7/2023	16.1			26.6					
2/8/2023		5.9				10.9	55.3	14.4	74.6
2/9/2023			9.6		2.8				

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	3.4
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	3.79
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	6.42
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	7.9
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	6.71
10/3/2017	
10/5/2017	
10/11/2017	
10/12/2017	7.05
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
4/3/2018	
4/4/2018	8.6
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	15.9 (J)
9/24/2018	
9/26/2018	
9/27/2018	
3/26/2019	
3/27/2019	

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
3/28/2019	8.9
4/3/2019	
4/4/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	18.2
3/24/2020	
3/25/2020	12.1
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	19.8
3/2/2021	
3/3/2021	
3/4/2021	32.2
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	4.1
2/8/2022	9.9
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	10.7
2/7/2023	
2/8/2023	11
2/9/2023	

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016					12	2.5			
6/2/2016				1.3				1.3	28
7/25/2016						2.16		1.17	
7/26/2016				1.24	11				24.5
8/30/2016		20.9							
8/31/2016			9.31						
9/1/2016	13.9								
9/13/2016					11.8	2.21			
9/14/2016							23.5		
9/15/2016				1.17					27
9/19/2016								1.05	
11/1/2016					11			1.14	25.6
11/2/2016				1.23					
11/4/2016						2.67	23.7		
11/14/2016		18.6							
11/15/2016	13.5								
11/28/2016			9.47 (B)						
12/15/2016							23.1		
1/10/2017				1.24					
1/11/2017					11.2				27.5
1/16/2017						2.45	23.3	1.23	
2/21/2017								1.25	
2/22/2017			10.4						
2/24/2017		16.1							
2/27/2017	12.5								
3/1/2017									
3/2/2017					11	2.57			27.5
3/3/2017							25.1		
3/8/2017				1.21					
4/26/2017				1.14				1.03	30.4
4/27/2017					11.1	2.38			
4/28/2017							30.7		
5/8/2017		14.6	14.2						
5/9/2017	14.4								
5/26/2017							26.2		
6/27/2017					13.8	2.36			
6/28/2017							26.1		29.8
6/30/2017				1.24				1.13	
7/11/2017		14.3							
7/13/2017	14.1								
7/17/2017			14.1						
10/3/2017					14	2.21	26.7		
10/4/2017								1.09	29.7
10/5/2017				1.11					
10/10/2017		12.1							
10/11/2017	12.4								
10/16/2017			13.6						
2/19/2018			<25						
4/2/2018		<25							
4/4/2018	<25								
6/5/2018					15.2 (J)				
6/6/2018						2.3			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/7/2018							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								

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/1/2016	21
6/2/2016	
7/25/2016	20.3
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	19.7
9/15/2016	
9/19/2016	
11/1/2016	18.4
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	20.3
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	18.6
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	25.6
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	23.9
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/3/2017	
10/4/2017	22.1
10/5/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/7/2018	
6/8/2018	21.9 (J)
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	19.7
10/2/2018	
2/25/2019	
3/27/2019	
3/28/2019	
3/29/2019	
4/1/2019	20.4 (J)
6/12/2019	
9/24/2019	
9/25/2019	22.4
9/26/2019	
10/8/2019	
3/17/2020	
3/18/2020	
3/19/2020	21.9
3/25/2020	
9/22/2020	
9/23/2020	23.6
9/24/2020	
9/25/2020	
3/1/2021	
3/2/2021	
3/3/2021	20.6
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	24.7
9/1/2021	
2/8/2022	
2/9/2022	23.7
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	23.5
2/7/2023	
2/8/2023	23.3
2/9/2023	

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
6/8/2016							1.9
8/1/2016							1.83
9/2/2016			11.2				
9/20/2016							1.78
11/8/2016							1.77
11/14/2016			7.79				
1/17/2017							1.7
2/28/2017			8.37				
3/8/2017							1.77
5/2/2017							1.57
5/9/2017			13.9				
7/7/2017							1.8
7/13/2017			16.6				
9/22/2017			18.4				
9/29/2017			16.1				
10/5/2017							1.7
10/6/2017			16.6				
10/11/2017			18.1				
10/12/2017		122					
11/21/2017		118					
1/11/2018		119					
2/20/2018		124					
4/3/2018		114					
6/12/2018							1.8
6/13/2018			18.7 (J)				
6/29/2018		129					
8/6/2018		114					
9/24/2018		115					
9/26/2018			19.8 (J)				1.7
10/16/2018	6.5						
4/4/2019			16.9 (J)				1.9
9/26/2019	4.7		11.7				1.7
3/25/2020	7.9		10.6				
3/26/2020							1.7
9/23/2020							2.4
9/24/2020	3.6						
9/25/2020		108					
10/7/2020			9.9				
3/3/2021							2.4
3/4/2021	4.4	118	5.6				
8/25/2021		106					
9/1/2021	7.9						2.3
9/3/2021			4.1	64			
2/10/2022	8.8	106				54.7	2.2
2/11/2022			4.6	49	27.3		
8/31/2022	11.8						
9/1/2022		99.9	6.3	67.9	22.8	52.5	
2/8/2023		95.9		55.2	22.9		
2/9/2023	14.5		9.2			54.3	
2/10/2023							2.4

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							6.8	6.4	
6/7/2016						4.5			1.9
7/27/2016						4.5	6.7	6.2	1.9
7/28/2016									
9/16/2016						4.5		6.1	
9/19/2016							7		1.9
11/2/2016									2.6
11/3/2016						5.4	7.5	7.4	
1/11/2017						4.7	6.5	6.1	
1/13/2017									2.3
3/1/2017							6.9	6	
3/2/2017						4.8			
3/6/2017									1.9
4/26/2017							7	6.5	2
5/2/2017						4.6			
6/28/2017							7	6.4	
6/29/2017						4.5			2.6
10/3/2017									
10/4/2017						4.7		6.8	2.6
10/5/2017							7		
6/5/2018									
6/6/2018									2.7
6/7/2018							6.8		
6/11/2018						4.9		6.8	
9/25/2018						5.6	7.9	7.8	3.6
10/16/2018	12.1								
4/2/2019						4.8			
4/3/2019							6.9	6.3	3.1
9/24/2019									
9/25/2019						5.7			2.8
9/26/2019	6.4						7	7.1	
3/24/2020						5	7	6.8	2.7
3/25/2020	7.7								
9/23/2020		2.7		1.8		6.6	7.2	7.2	
9/24/2020	6.6				3.7				2.7
3/3/2021	6.1	2.5		22.9		7.1	7	7.2	2.7
3/4/2021					3.7				
8/25/2021				1.5					
8/26/2021					3.9			7.3	
8/27/2021						8.5	7.4		2.8
9/1/2021	5.7	2.6							
2/9/2022						10.9	7.5	7	2.8
2/10/2022	5.3	2.5	3.2	1.4	3.9				
8/30/2022						12	7.9	7	
8/31/2022	5.3								2.9
9/1/2022		2.4	10.2	1.4	3.6				
2/7/2023						11.4	7.4	6.4	2.9
2/8/2023		2.5		1.5	3.8				
2/9/2023	5.4		9.6						

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-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	

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-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 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/28/2019								3.2	
4/3/2019			4.3	4	4.2				
4/4/2019						1.7			
9/24/2019				3.7	4.5				
9/25/2019			4.5						
9/27/2019						1.7			
10/9/2019	2.1	5.1					5	3.3	4.1
3/24/2020		4.7		3.5	4.3				
3/25/2020	1.9		3.9				4	2.7	3.2
3/26/2020						1.6			
9/22/2020			4.5	3.6	4.2				
9/24/2020	2.7	5				2			3.3
9/25/2020							4	3	
3/2/2021				3.2	4.3				
3/3/2021			4.1						
3/4/2021	4.9	4.9				1.8	3.9	3.4	2.7
8/25/2021						2.5			3.4
8/26/2021	7.2		4.4	3.4	4.3		4.1	3.6	
9/3/2021		5.5							
9/27/2021									
2/8/2022	7.4	6.2						3.5	
2/10/2022				3.2	4.4	1.9	4		3.3
2/11/2022			4.1						
8/30/2022				3.5	4.4				
8/31/2022	6.7	6.3	4.4						
9/1/2022						2	4.2	3.8	3.3
2/7/2023	5.6			3.3					
2/8/2023		6.9				2	3.9	4	3.4
2/9/2023			4.5		5				

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	1.5
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	1.7
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	1.5
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	1.2
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	1.5
10/3/2017	
10/5/2017	
10/11/2017	
10/12/2017	1.6
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
4/3/2018	
4/4/2018	1.8
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	1.9
9/24/2018	
9/26/2018	
9/27/2018	
3/26/2019	
3/27/2019	

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
3/28/2019	1.8
4/3/2019	
4/4/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	2.3
3/24/2020	
3/25/2020	1.8
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	2.3
3/2/2021	
3/3/2021	
3/4/2021	2.1
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	1.1
2/8/2022	2.1
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	2.1
2/7/2023	
2/8/2023	2.4
2/9/2023	

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016					1.3	1.6			
6/2/2016				4.1				1.9	1.4
7/25/2016						1.4		1.7	
7/26/2016				4	1.2				1.6
8/30/2016		5.2							
8/31/2016			4						
9/1/2016	5.3								
9/13/2016					1.1	1.3			
9/14/2016							1.1		
9/15/2016				4.2					1.5
9/19/2016								1.6	
11/1/2016					1.3			1.8	1.7
11/2/2016				4.9					
11/4/2016						1.6	1.4		
11/14/2016		6.4							
11/15/2016	5.8								
11/28/2016			4.2						
12/15/2016							2.9		
1/10/2017				4.1					
1/11/2017					1.1				1.2
1/16/2017						1.4	0.98	1.7	
2/21/2017								1.7	
2/22/2017			3.7						
2/24/2017		5.5							
2/27/2017	4.6								
3/1/2017									
3/2/2017					1	1.3			1.2
3/3/2017							1.1		
3/8/2017				4.2					
4/26/2017				4.1				1.7	1.2
4/27/2017					1	1.3			
4/28/2017							0.91		
5/8/2017		5.8	4.2						
5/9/2017	5.3								
5/26/2017							0.93		
6/27/2017					1.1	1.4			
6/28/2017							1		1.3
6/30/2017				3.7				1.8	
7/11/2017		5.8							
7/13/2017	4.7								
7/17/2017			3.8						
10/3/2017					1.1	1.7	1.2		
10/4/2017								1.8	1.5
10/5/2017				3.8					
10/10/2017		5.9							
10/11/2017	5.8								
10/16/2017			4.2						
2/19/2018			4.3						
4/2/2018		4.8							
4/4/2018	4.3								
6/5/2018					1.1				
6/6/2018						1.4			

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	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								

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/1/2016	1.3
6/2/2016	
7/25/2016	1.3
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	1.3
9/15/2016	
9/19/2016	
11/1/2016	1.4
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	1.1
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	1.1
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	1.1
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	1.2
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/3/2017	
10/4/2017	1.2
10/5/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/7/2018	
6/8/2018	1.2
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	1.2
10/2/2018	
2/25/2019	
3/27/2019	
3/28/2019	
3/29/2019	
4/1/2019	1.1
6/12/2019	
9/24/2019	
9/25/2019	1.1
9/26/2019	
10/8/2019	
3/17/2020	
3/18/2020	
3/19/2020	1.1
3/25/2020	
9/22/2020	
9/23/2020	1
9/24/2020	
9/25/2020	
3/1/2021	
3/2/2021	
3/3/2021	0.99 (J)
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	1.1
9/1/2021	
2/8/2022	
2/9/2022	1.1
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	1.3
2/7/2023	
2/8/2023	1.1
2/9/2023	

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
6/8/2016							5.9
8/1/2016							5.3
9/2/2016			6.3				
9/20/2016							5.5
11/8/2016							6.4
11/14/2016			6.7				
1/17/2017							5.5
2/28/2017			5.4				
3/8/2017							5.4
5/2/2017							5.7
5/9/2017			5.7				
7/7/2017							5.7
7/13/2017			5.4				
9/22/2017			6.9				
9/29/2017			5.5				
10/5/2017							6
10/6/2017			5.5				
10/11/2017			6.4				
10/12/2017		5.4					
11/21/2017		6.5					
1/11/2018		5					
2/20/2018		5.2					
4/3/2018		4.8					
6/12/2018							6.2
6/13/2018			5.6				
6/29/2018		5.7					
8/6/2018		4.8					
9/24/2018		4.9					
9/26/2018			6				6.9
10/16/2018	8.5						
4/4/2019			5.4				5.9
9/26/2019	7.5		7.1				6.5
3/25/2020	6.8		6.3				
3/26/2020							5.4
9/23/2020							9.3
9/24/2020	7.5						
9/25/2020		4.3					
10/7/2020			8.7				
3/3/2021							8.6
3/4/2021	6.7	3.9	6.6				
8/25/2021		7					
9/1/2021	6.3						8.9
9/3/2021			7	7.1			
2/10/2022	5.6	4.2				4.2	8.7
2/11/2022			6.6	12.5	6.7		
8/31/2022	5.5						
9/1/2022		4.2	6.2	45.6	3.7	4	
2/8/2023		3.8		33.5	2		
2/9/2023	5.4		5.9			4.7	
2/10/2023							9.1

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							0.0012 (J)	<0.005	
6/7/2016						<0.005			<0.005
7/27/2016						0.0008 (J)	0.0007 (J)	0.0006 (J)	0.0005 (J)
7/28/2016									
9/16/2016						<0.005		<0.005	
9/19/2016							<0.005		<0.005
11/2/2016									<0.005
11/3/2016						<0.005	<0.005	<0.005	
1/11/2017						<0.005	<0.005	<0.005	
1/13/2017									<0.005
3/1/2017							0.0012 (J)	<0.005	
3/2/2017						0.001 (J)			
3/6/2017									<0.005
4/26/2017							0.0005 (J)	0.0003 (J)	0.0007 (J)
5/2/2017						0.0007 (J)			
6/28/2017							0.0006 (J)	<0.005	
6/29/2017						0.0006 (J)			0.0005 (J)
3/28/2018						<0.005	<0.005	<0.005	
3/29/2018									<0.005
3/5/2019						<0.005		<0.005	<0.005
3/6/2019							<0.005		
2/11/2020						0.00087 (J)	0.001 (J)	0.00088 (J)	
2/12/2020									0.00045 (J)
3/24/2020						0.00087 (J)	0.00095 (J)	0.0011 (J)	0.00077 (J)
3/25/2020	0.00058 (J)								
9/23/2020		0.00071 (J)		<0.005		0.00098 (J)	0.00092 (J)	0.0012 (J)	
9/24/2020	0.00074 (J)				<0.005				0.00076 (J)
2/9/2021	0.001 (J)	0.0011 (J)		0.00057 (J)	<0.005		0.00083 (J)	0.0013 (J)	0.00056 (J)
3/3/2021	0.00076 (J)	0.0012 (J)		<0.005		0.00082 (J)	0.00087 (J)	0.001 (J)	<0.005
3/4/2021					<0.005				
8/25/2021				<0.005					
8/26/2021					<0.005			<0.005	
8/27/2021						<0.005	<0.005		<0.005
9/1/2021	<0.005	0.003 (J)							
2/9/2022						<0.005	<0.005	0.0014 (J)	<0.005
2/10/2022	0.0013 (J)	<0.005	0.0011 (J)	<0.005	0.0016 (J)				
8/30/2022						<0.005	<0.005	0.0015 (J)	
8/31/2022	<0.005								<0.005
9/1/2022		<0.005	<0.005	<0.005	<0.005				
2/7/2023						<0.005	<0.005	0.0016 (J)	<0.005
2/8/2023		<0.005		<0.005	<0.005				
2/9/2023	<0.005		<0.005						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-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	

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-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 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/25/2020	<0.005		0.00058 (J)				0.00065 (J)	0.00039 (J)	0.0013 (J)
3/26/2020						0.0019 (J)			
9/22/2020			<0.005	0.0011 (J)	<0.005				
9/24/2020	<0.005	<0.005				0.0011 (J)			<0.005
9/25/2020							<0.005	<0.005	
2/8/2021				<0.005	<0.005				
2/9/2021			<0.005			0.00086 (J)	<0.005		
2/10/2021	<0.005	<0.005						<0.005	<0.005
3/2/2021				<0.005	<0.005				
3/3/2021			0.0013 (J)						
3/4/2021	<0.005	<0.005				0.00078 (J)	<0.005	<0.005	<0.005
8/25/2021						<0.005			<0.005
8/26/2021	<0.005		<0.005	<0.005	<0.005		<0.005	<0.005	
9/3/2021		<0.005							
9/27/2021									
2/8/2022	<0.005	<0.005						<0.005	
2/10/2022				<0.005	<0.005	<0.005	<0.005		<0.005
2/11/2022			<0.005						
8/30/2022				<0.005	<0.005				
8/31/2022	<0.005	<0.005	<0.005						
9/1/2022						<0.005	<0.005	<0.005	<0.005
2/7/2023	<0.005			<0.005					
2/8/2023		<0.005				0.0014 (J)	<0.005	<0.005	<0.005
2/9/2023			<0.005		0.0012 (J)				

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	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 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
3/25/2020	<0.005
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	0.00071 (J)
2/8/2021	
2/9/2021	<0.005
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.005
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	<0.005
2/8/2022	<0.005
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	<0.005
2/7/2023	
2/8/2023	<0.005
2/9/2023	

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			0.0029						
9/11/2007			0.0084						
3/20/2008			0.0027						
8/27/2008			0.0026						
3/3/2009			0.0022						
11/18/2009			0.0036						
3/3/2010			<0.005						
9/8/2010			<0.005						
3/10/2011			<0.005						
9/8/2011			<0.005						
3/5/2012			<0.005						
9/10/2012			<0.005						
2/6/2013			<0.005						
8/12/2013			<0.005						
2/5/2014			0.0059						
8/5/2014			<0.005						
2/4/2015			<0.005						
8/3/2015			0.0011 (J)						
2/16/2016			<0.005						
6/1/2016					0.0035	<0.005			
6/2/2016				<0.005				<0.005	0.0013 (J)
7/25/2016						<0.005		<0.005	
7/26/2016				<0.005	<0.005				<0.005
8/30/2016		<0.005							
8/31/2016			<0.005						
9/1/2016	0.0013 (J)								
9/13/2016					<0.005	<0.005			
9/14/2016							<0.005		
9/15/2016				<0.005					<0.005
9/19/2016								<0.005	
11/1/2016					<0.005			<0.005	<0.005
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 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	0.0017 (J)								
5/26/2017							<0.005		
6/27/2017					<0.005	<0.005			
6/28/2017							<0.005		<0.005
6/30/2017				<0.005				<0.005	
7/11/2017		<0.005							
7/13/2017	0.0019 (J)								
7/17/2017			<0.005						
10/10/2017		<0.005							
10/11/2017	0.0014 (J)								
10/16/2017			<0.005						
2/19/2018			<0.005						
3/27/2018				<0.005		<0.005		<0.005	
3/28/2018							<0.005		<0.005
3/29/2018					<0.005				
4/2/2018		<0.005							
4/4/2018	<0.01								
8/6/2018			<0.005						
9/19/2018		<0.005							
9/20/2018	0.0017 (J)								
2/25/2019			<0.005						
2/26/2019				<0.005				<0.005	
2/27/2019					<0.005	<0.005	<0.005		<0.005
3/28/2019					<0.005	0.0021 (J)			
3/29/2019				<0.005			<0.005		
4/1/2019								<0.005	<0.005
6/12/2019			<0.005						
8/19/2019			<0.005						
8/20/2019		<0.005							
9/24/2019					0.00072 (J)	0.0028 (J)	<0.005		
9/25/2019				<0.005				<0.005	0.0014 (J)
10/8/2019			<0.005						
2/10/2020					0.00042 (J)	<0.005			
2/11/2020							<0.005		
2/12/2020				<0.005				<0.005	<0.005
3/17/2020			<0.005						
3/18/2020				<0.005		0.00044 (J)			
3/19/2020					0.00084 (J)		0.00048 (J)	<0.005	<0.005
3/25/2020	0.0019 (J)								
8/26/2020			<0.005						
8/27/2020		<0.005							
9/22/2020		<0.005	<0.005						
9/23/2020					0.00062 (J)	0.00058 (J)	<0.005		<0.005
9/24/2020	0.0019 (J)							<0.005	
9/25/2020				<0.005					
2/9/2021	0.002 (J)								
2/10/2021				<0.005			<0.005		<0.005
2/11/2021								<0.005	
2/12/2021					<0.005	<0.005			
3/1/2021		<0.005						<0.005	
3/2/2021			<0.005	<0.005					
3/3/2021					<0.005	<0.005	<0.005		<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
3/4/2021	0.0017 (J)								
8/19/2021		<0.005		<0.005	<0.005	<0.005		<0.005	<0.005
8/20/2021			<0.005						
8/27/2021							<0.005		
9/1/2021	0.002 (J)								
2/8/2022	0.0021 (J)	<0.005	<0.005						
2/9/2022					<0.005	<0.005	<0.005		<0.005
2/10/2022				<0.005					
2/11/2022								<0.005	
8/30/2022			<0.005		0.0011 (J)		<0.005		
8/31/2022	0.002 (J)	<0.005		<0.005		<0.005		<0.005	<0.005
2/7/2023			<0.005		<0.005	0.0013 (J)	<0.005		
2/8/2023		<0.005		<0.005				0.0021 (J)	<0.005
2/9/2023	0.002 (J)								

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	<0.005
6/2/2016	
7/25/2016	<0.005
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.005
9/15/2016	
9/19/2016	
11/1/2016	<0.005
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.005
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	0.0004 (J)
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.005
4/27/2017	
4/28/2017	
5/8/2017	

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	<0.005
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.005
3/29/2018	
4/2/2018	
4/4/2018	
8/6/2018	
9/19/2018	
9/20/2018	
2/25/2019	
2/26/2019	
2/27/2019	<0.005
3/28/2019	
3/29/2019	
4/1/2019	<0.005
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	0.0019 (J)
10/8/2019	
2/10/2020	
2/11/2020	<0.005
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.005
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	<0.005
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	<0.005
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	<0.005
9/1/2021	
2/8/2022	
2/9/2022	<0.005
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	<0.005
2/7/2023	
2/8/2023	<0.005
2/9/2023	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
6/8/2016							<0.005
8/1/2016							<0.005
9/2/2016			<0.005				
9/20/2016							<0.005
11/8/2016							<0.005
11/14/2016			0.0035				
1/17/2017							<0.005
2/28/2017			<0.005				
3/8/2017							<0.005
5/2/2017							0.0011 (J)
5/9/2017			<0.005				
7/7/2017							<0.005
7/13/2017			<0.005				
9/22/2017			<0.005				
9/29/2017			<0.005				
10/6/2017			<0.005				
10/12/2017		0.0019 (J)					
11/21/2017		0.0017 (J)					
1/11/2018		0.001 (J)					
2/20/2018		<0.005					
3/30/2018			<0.005				<0.005
4/3/2018		<0.005					
6/29/2018		<0.005					
8/6/2018		<0.005					
9/24/2018		<0.005					
3/5/2019							<0.005
3/6/2019			<0.005				
3/25/2020	0.0012 (J)		0.00074 (J)				
3/26/2020							0.00094 (J)
9/23/2020							<0.005
9/24/2020	0.00061 (J)						
9/25/2020		<0.005					
10/7/2020			0.0013 (J)				
2/9/2021		<0.005					0.0011 (J)
2/10/2021	0.0006 (J)		0.00094 (J)				
3/3/2021							<0.005
3/4/2021	0.0007 (J)	<0.005	<0.005				
8/25/2021		<0.005					
9/1/2021	<0.005						<0.005
9/3/2021			<0.005	<0.005			
2/10/2022	<0.005	<0.005				<0.005	<0.005
2/11/2022			<0.005	<0.005	0.0011 (J)		
8/31/2022	<0.005						
9/1/2022		<0.005	<0.005	<0.005	<0.005	<0.005	
2/8/2023		<0.005		<0.005	<0.005		
2/9/2023	0.0016 (J)		<0.005			<0.005	
2/10/2023							<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.005	0.00061 (J)	
6/7/2016						<0.005			<0.005
7/27/2016						<0.005	<0.005	0.0004 (J)	<0.005
7/28/2016									
9/16/2016						<0.005		0.0008 (J)	
9/19/2016							<0.005		<0.005
11/2/2016									<0.005
11/3/2016						<0.005	<0.005	<0.005	
1/11/2017						<0.005	<0.005	<0.005	
1/13/2017									<0.005
3/1/2017							<0.005	<0.005	
3/2/2017						<0.005			
3/6/2017									<0.005
4/26/2017							<0.005	<0.005	<0.005
5/2/2017						<0.005			
6/28/2017							<0.005	<0.005	
6/29/2017						<0.005			<0.005
3/28/2018						<0.005	<0.005	<0.005	
3/29/2018									<0.005
6/5/2018									
6/6/2018									<0.005
6/7/2018							<0.005		
6/11/2018						<0.005		<0.005	
9/25/2018						<0.005	<0.005	<0.005	<0.005
10/16/2018	0.032								
3/5/2019						<0.005		<0.005	<0.005
3/6/2019							<0.005		
4/2/2019						<0.005			
4/3/2019							<0.005	<0.005	<0.005
9/24/2019									
9/25/2019						<0.005			<0.005
9/26/2019	0.015						<0.005	<0.005	
1/3/2020	<0.005								
2/11/2020						<0.005	<0.005	<0.005	
2/12/2020									<0.005
3/24/2020						<0.005	<0.005	<0.005	<0.005
3/25/2020	<0.005								
9/23/2020		0.0025 (J)		0.00052 (J)		<0.005	<0.005	<0.005	
9/24/2020	0.01				0.00077 (J)				<0.005
2/9/2021	0.03	0.001 (J)		0.00063 (J)	<0.005		<0.005	<0.005	<0.005
3/3/2021	0.018	0.00082 (J)		0.001 (J)		<0.005	<0.005	<0.005	<0.005
3/4/2021					<0.005				
8/25/2021				0.00041 (J)					
8/26/2021					<0.005			<0.005	
8/27/2021						<0.005	<0.005		<0.005
9/1/2021	0.022	0.00093 (J)							
2/9/2022						<0.005	<0.005	<0.005	<0.005
2/10/2022	0.011	0.00052 (J)	0.16	0.00044 (J)	<0.005				
8/30/2022						<0.005	<0.005	<0.005	
8/31/2022	0.0041 (J)								<0.005
9/1/2022		0.0068	0.058	0.00048 (J)	<0.005				
2/7/2023						<0.005	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/8/2023		<0.005		0.00085 (J)	<0.005				
2/9/2023	0.0045 (J)		0.066						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-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 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
2/8/2023	
2/9/2023	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-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 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
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				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.005
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.005
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.005
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	<0.005
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.005
10/11/2017	
10/12/2017	0.0006 (J)
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.005
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	0.0034 (J)
9/24/2018	
9/26/2018	
9/27/2018	
3/4/2019	
3/6/2019	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
4/3/2019	
4/4/2019	
8/21/2019	0.0026 (J)
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	0.0023 (J)
2/12/2020	
3/24/2020	
3/25/2020	0.0016 (J)
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	0.0018 (J)
2/8/2021	
2/9/2021	0.0017 (J)
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	0.0015 (J)
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	<0.005
2/8/2022	0.00045 (J)
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	0.0005 (J)
2/7/2023	
2/8/2023	0.00049 (J)
2/9/2023	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			0.0067						
9/11/2007			<0.005						
3/20/2008			<0.005						
8/27/2008			<0.005						
3/3/2009			<0.005						
11/18/2009			<0.005						
3/3/2010			0.0027						
9/8/2010			0.007						
3/10/2011			<0.005						
9/8/2011			<0.005						
3/5/2012			0.0032						
9/10/2012			<0.005						
2/6/2013			<0.005						
8/12/2013			0.0045						
2/5/2014			<0.005						
8/5/2014			0.0027						
2/4/2015			0.0016						
8/3/2015			0.002						
2/16/2016			0.0027						
6/1/2016					<0.005	0.00082 (J)			
6/2/2016				<0.005				0.035	<0.005
7/25/2016						0.0008 (J)		0.0312	
7/26/2016				<0.005	<0.005				<0.005
8/30/2016		0.0073 (J)							
8/31/2016			0.0053 (J)						
9/1/2016	<0.005								
9/13/2016					<0.005	0.0009 (J)			
9/14/2016							<0.005		
9/15/2016				<0.005					<0.005
9/19/2016								0.0275	
11/1/2016					<0.005			0.0255	<0.005
11/2/2016				<0.005					
11/4/2016						0.0025 (J)	<0.005		
11/14/2016		0.0115							
11/15/2016	0.0006 (J)								
11/28/2016			0.0036 (J)						
12/15/2016							<0.005		
1/10/2017				<0.005					
1/11/2017					<0.005				<0.005
1/16/2017						0.0027 (J)	<0.005	0.0245	
2/21/2017								0.0272	
2/22/2017			0.0049 (J)						
2/24/2017		0.0106							
2/27/2017	0.0008 (J)								
3/1/2017									
3/2/2017					<0.005	0.0022 (J)			<0.005
3/3/2017							<0.005		
3/8/2017				<0.005					
4/26/2017				<0.005				0.0244	<0.005
4/27/2017					<0.005	0.0018 (J)			
4/28/2017							<0.005		
5/8/2017		0.0099 (J)	0.0059 (J)						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	<0.005								
5/26/2017							<0.005		
6/27/2017					<0.005	0.0023 (J)			
6/28/2017							<0.005		<0.005
6/30/2017				<0.005				0.0233	
7/11/2017		0.0096 (J)							
7/13/2017	0.0005 (J)								
7/17/2017			0.0046 (J)						
10/10/2017		0.0036 (J)							
10/11/2017	0.0006 (J)								
10/16/2017			0.0034 (J)						
2/19/2018			<0.005						
3/27/2018				<0.005		<0.005		0.023	
3/28/2018							<0.005		<0.005
3/29/2018					<0.005				
4/2/2018		<0.005							
4/4/2018	<0.005								
6/5/2018					<0.005				
6/6/2018						<0.005			
6/7/2018							<0.005		<0.005
6/8/2018				<0.005					
6/11/2018								0.023	
8/6/2018			0.003 (J)						
9/19/2018		0.0036 (J)							
9/20/2018	<0.005								
10/1/2018				<0.005	<0.005	0.00059 (J)	<0.005		<0.005
10/2/2018								0.022	
2/25/2019			0.001 (J)						
2/26/2019				<0.005				0.021	
2/27/2019					<0.005	0.00064 (J)	<0.005		<0.005
3/28/2019					<0.005	0.00091 (J)			
3/29/2019				<0.005			<0.005		
4/1/2019								0.022	<0.005
6/12/2019			0.003 (J)						
8/19/2019			0.0035 (J)						
8/20/2019		0.00092 (J)							
9/24/2019					<0.005	0.0013 (J)	<0.005		
9/25/2019				<0.005				0.016	<0.005
9/26/2019	<0.005								
10/8/2019		0.0014 (J)	0.0039 (J)						
2/10/2020					<0.005	0.0016 (J)			
2/11/2020							<0.005		
2/12/2020				<0.005				0.014	<0.005
3/17/2020		0.0017 (J)	0.003 (J)						
3/18/2020				<0.005		0.00087 (J)			
3/19/2020					<0.005		<0.005	0.014	<0.005
3/25/2020	<0.005								
8/26/2020			0.2 (O)						
8/27/2020		0.0011 (J)							
9/22/2020		0.00097 (J)	0.16 (O)						
9/23/2020					<0.005	0.0013 (J)	<0.005		<0.005
9/24/2020	<0.005							0.0064	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
9/25/2020				<0.005					
2/9/2021	<0.005								
2/10/2021				<0.005			<0.005		<0.005
2/11/2021								0.0078	
2/12/2021					0.00086 (J)	0.0028 (J)			
3/1/2021		0.001 (J)						0.0061	
3/2/2021			0.21 (O)	<0.005					
3/3/2021					<0.005	0.003 (J)	<0.005		<0.005
3/4/2021	<0.005								
8/19/2021		0.00099 (J)		<0.005	0.00055 (J)	0.0017 (J)		0.0052	<0.005
8/20/2021			0.074 (O)						
8/27/2021							<0.005		
9/1/2021	<0.005								
2/8/2022	<0.005	0.0013 (J)	0.072 (o)						
2/9/2022					0.00072 (J)	0.0023 (J)	<0.005		<0.005
2/10/2022				<0.005					
2/11/2022								0.0038 (J)	
8/30/2022			0.075 (o)		<0.005		<0.005		
8/31/2022	<0.005	0.00096 (J)		<0.005		0.00085 (J)		0.004 (J)	<0.005
2/7/2023			0.034		0.00097 (J)	0.0048 (J)	<0.005		
2/8/2023		0.0011 (J)		<0.005				0.0031 (J)	<0.005
2/9/2023	<0.005								

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	<0.005
6/2/2016	
7/25/2016	<0.005
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.005
9/15/2016	
9/19/2016	
11/1/2016	<0.005
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.005
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.005
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.005
4/27/2017	
4/28/2017	
5/8/2017	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	<0.005
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.005
3/29/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	
6/7/2018	
6/8/2018	<0.005
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	<0.005
10/2/2018	
2/25/2019	
2/26/2019	
2/27/2019	<0.005
3/28/2019	
3/29/2019	
4/1/2019	<0.005
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	<0.005
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	<0.005
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.005
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	<0.005
9/24/2020	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
9/25/2020	
2/9/2021	
2/10/2021	<0.005
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	<0.005
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	<0.005
9/1/2021	
2/8/2022	
2/9/2022	<0.005
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	<0.005
2/7/2023	
2/8/2023	<0.005
2/9/2023	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
6/8/2016							<0.005
8/1/2016							<0.005
9/2/2016			0.0006 (J)				
9/20/2016							<0.005
11/8/2016							<0.005
11/14/2016			<0.005				
1/17/2017							<0.005
2/28/2017			<0.005				
3/8/2017							<0.005
5/2/2017							<0.005
5/9/2017			<0.005				
7/7/2017							<0.005
7/13/2017			<0.005				
9/22/2017			<0.005				
9/29/2017			<0.005				
10/6/2017			<0.005				
10/12/2017		0.0078 (J)					
11/21/2017		0.0097 (J)					
1/11/2018		0.0131					
2/20/2018		0.0162					
3/30/2018			<0.005				<0.005
4/3/2018		0.015					
6/12/2018							<0.005
6/13/2018			<0.005				
6/29/2018		0.013					
8/6/2018		0.0053 (J)					
9/24/2018		0.0071 (J)					
9/26/2018			<0.005				<0.005
10/16/2018	<0.005						
3/5/2019							<0.005
3/6/2019			<0.005				
4/4/2019			<0.005				<0.005
9/26/2019	<0.005		0.00048 (J)				<0.005
3/25/2020	0.0059		0.00038 (J)				
3/26/2020							<0.005
9/23/2020							<0.005
9/24/2020	<0.005						
9/25/2020		0.0023 (J)					
10/7/2020			0.00086 (J)				
2/9/2021		0.0023 (J)					<0.005
2/10/2021	<0.005		0.00038 (J)				
3/3/2021							<0.005
3/4/2021	<0.005	0.003 (J)	<0.005				
8/25/2021		0.0068					
9/1/2021	<0.005						<0.005
9/3/2021			<0.005	<0.005			
2/10/2022	<0.005	0.0036 (J)				0.033	<0.005
2/11/2022			<0.005	<0.005	0.0011 (J)		
8/31/2022	<0.005						
9/1/2022		0.0025 (J)	<0.005	<0.005	0.0016 (J)	0.018	
2/8/2023		0.0022 (J)		<0.005	0.0026 (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 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
2/10/2023							<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							0.0804 (U)	0.301 (U)	
6/7/2016						0.158 (U)			0.0191 (U)
7/27/2016						0.0354 (U)	0.206 (U)	0.196 (U)	0.541 (U)
7/28/2016									
9/16/2016						1.04		0.915 (U)	
9/19/2016							1.58		0.826 (U)
11/2/2016									0.791 (U)
11/3/2016						0.314 (U)	0.342 (U)	0.928 (U)	
1/11/2017						0.34 (U)	0.365 (U)	0.502 (U)	
1/13/2017									0.296 (U)
3/1/2017							0.395 (U)	0.202 (U)	
3/2/2017						0.746 (U)			
3/6/2017									0.518 (U)
4/26/2017							0.507 (U)	0.264 (U)	0.282 (U)
5/2/2017						0.111 (U)			
6/28/2017							0.892	0.636 (U)	
6/29/2017						0.576 (U)			1.12
3/28/2018						0.438 (U)	0.92 (U)	0.56 (U)	
3/29/2018									1.73
6/5/2018									
6/6/2018									0.694 (U)
6/7/2018							0.668 (U)		
6/11/2018						0.901 (U)		0.649 (U)	
9/25/2018						0.68 (U)	0.141 (U)	0.574 (U)	0.772 (U)
10/16/2018	0.384 (U)								
3/5/2019						0.272 (U)		0.474 (U)	0.84 (U)
3/6/2019							0.714 (U)		
4/2/2019						0.847 (U)			
4/3/2019							0.385 (U)	0.429 (U)	1.01
9/24/2019									
9/25/2019						0.412 (U)			1.18 (U)
9/26/2019							0.386 (U)	0.222 (U)	
2/11/2020						0.461 (U)	1.48	0.597 (U)	
2/12/2020									1.11 (U)
3/24/2020						0.534 (U)	0.632 (U)	0.262 (U)	1.88
3/25/2020	0.525 (U)								
9/23/2020		0.0813 (U)		1.2 (U)		0.466 (U)	0.887 (U)	0.43 (U)	
9/24/2020	0.547 (U)				0.668 (U)				0.611 (U)
2/9/2021	0.866 (U)	0.492 (U)		0.659 (U)	1.07 (U)	0.529 (U)	0.314 (U)	0.259 (U)	0.284 (U)
3/3/2021	0.377 (U)	0.563 (U)		1.07		0.59 (U)	0.565 (U)	0.352 (U)	0.133 (U)
3/4/2021					1.46				
8/25/2021				0.0991 (U)					
8/26/2021					0.724 (U)			0.686 (U)	
8/27/2021						0.9 (U)	0.761 (U)		0.779 (U)
9/1/2021	0.676 (U)	0.761 (U)							
2/9/2022						0.133 (U)	0.571 (U)	0.0618 (U)	0.504 (U)
2/10/2022	0.233 (U)	0 (U)	0.988 (U)	0.702 (U)	1.25 (U)				
8/30/2022						1.08	1.01	0.611 (U)	
8/31/2022	0.313 (U)								0.184 (U)
9/1/2022		0.959 (U)	0.975 (U)	0.381 (U)	0.811 (U)				
2/7/2023						0.367 (U)	0.485 (U)	0.656 (U)	0.794 (U)
2/8/2023		0.0994 (U)		0.239 (U)	0.502 (U)				

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/9/2023	0.595 (U)		2.19						

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-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 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
2/9/2023	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-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 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
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)				

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	0.926 (U)
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	0.773 (U)
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	0.661 (U)
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	1.27
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	1.02
10/11/2017	
10/12/2017	1.58
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	1.71
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	2.8
9/24/2018	
9/26/2018	
9/27/2018	
3/4/2019	
3/6/2019	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
4/3/2019	
4/4/2019	
8/21/2019	3.16
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/8/2019	3.65
2/12/2020	
3/24/2020	
3/25/2020	3.04
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	4.75
2/8/2021	
2/9/2021	6.38
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	6.02
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	1.54
2/8/2022	3.11
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	4.16
2/7/2023	
2/8/2023	3.73
2/9/2023	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016					0.321 (U)	0.42			
6/2/2016				0.329 (U)				0.0652 (U)	2.51
7/25/2016						1.83		3.01	
7/26/2016				1.51	0.707 (U)				3.82
8/30/2016		1.09							
8/31/2016			1.2						
9/1/2016	1.2								
9/13/2016					1.22	0.841			
9/14/2016							0.98 (U)		
9/15/2016				1.04 (U)					4.24
9/19/2016								0.871 (U)	
11/1/2016					0.805 (U)			0.307 (U)	3.92
11/2/2016				0.496 (U)					
11/4/2016						0.166 (U)	0.277 (U)		
11/15/2016	0.645 (U)								
11/28/2016			0.264 (U)						
12/15/2016		1 (U)					0.071 (U)		
1/10/2017				0.376 (U)					
1/11/2017					0.705 (U)				2.52
1/16/2017						0	0.44 (U)	0.284 (U)	
2/21/2017								0.503 (U)	
2/22/2017			1.06 (U)						
2/24/2017		0.504 (U)							
2/27/2017	0.244 (U)								
3/1/2017									
3/2/2017					0.251 (U)	0.504 (U)			3.13
3/3/2017							0.448 (U)		
3/8/2017				0.0745 (U)					
4/26/2017				0.282 (U)				0.204 (U)	2.35
4/27/2017					1.08	0.593 (U)			
4/28/2017							0.548 (U)		
5/8/2017		0.455 (U)	0.187 (U)						
5/9/2017	0.519 (U)								
5/26/2017							0 (U)		
6/27/2017					1.02 (U)	0.657 (U)			
6/28/2017							0.608 (U)		2.6
6/30/2017				0.994				0.738 (U)	
7/11/2017		0.471 (U)							
7/13/2017	0.5 (U)								
7/17/2017			1.42						
10/10/2017		0.649 (U)							
10/11/2017	1.41								
10/16/2017			1.17						
2/19/2018			1.58 (D)						
3/27/2018				0.189 (U)		0.39 (U)		0.31 (U)	
3/28/2018							0.412 (U)		3
3/29/2018					0.503 (U)				
4/2/2018		0.512 (U)							
4/4/2018	0.442 (U)								
6/5/2018					0.771 (U)				
6/6/2018						2.8			
6/7/2018							0.73 (U)		2.79

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	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)								

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/1/2016	0.896
6/2/2016	
7/25/2016	2.28
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	0.821 (U)
9/15/2016	
9/19/2016	
11/1/2016	0.585 (U)
11/2/2016	
11/4/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	1.22
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	0.877 (U)
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	0.672 (U)
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	1.07 (U)
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	0.65 (U)
3/29/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	
6/7/2018	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/8/2018	1.89
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	1.58
10/2/2018	
2/26/2019	
2/27/2019	3.67
3/28/2019	
3/29/2019	
4/1/2019	2.28
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	1.6
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	1.85
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	2.2
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	1.14 (U)
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	2.46
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	2.03
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	1.34
9/1/2021	
2/8/2022	
2/9/2022	1.91
2/10/2022	
8/30/2022	
8/31/2022	1.33
2/7/2023	
2/8/2023	1.18
2/9/2023	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
6/8/2016							1.06
8/1/2016							0.467 (U)
9/2/2016			0.873 (U)				
9/20/2016							0.853 (U)
9/22/2016			0.667 (U)				
9/29/2016			1.63				
10/6/2016			0.641 (U)				
11/8/2016							0.433 (U)
11/14/2016			0.0451 (U)				
1/17/2017							0.0759 (U)
2/28/2017			1.34 (U)				
3/8/2017							0.479 (U)
5/2/2017							0.506 (U)
5/9/2017			0.309 (U)				
7/7/2017							0.713 (U)
7/13/2017			0.618 (U)				
10/12/2017		1.83					
11/21/2017		1.33					
1/11/2018		1.53					
2/20/2018		2.75					
3/30/2018			0.721 (U)				0.409 (U)
4/3/2018		1.47					
6/12/2018							0.728 (U)
6/13/2018			1.04 (U)				
6/29/2018		1.69					
8/6/2018		1.69					
9/24/2018		2.26					
9/26/2018			0.604 (U)				0.981
10/16/2018	0.363 (U)						
3/5/2019							0.837 (U)
3/6/2019			0.919 (U)				
4/4/2019			1.05 (U)				
4/9/2019							0.502 (U)
9/26/2019			0.979 (U)				0.964 (U)
3/25/2020	0.197 (U)		1.22 (U)				
3/26/2020							0.511 (U)
9/23/2020							0.786 (U)
9/24/2020	1.07 (U)						
9/25/2020		1.68 (U)					
10/7/2020			1.58				
2/9/2021		1.52					0.678 (U)
2/10/2021	0.546 (U)		0.466 (U)				
3/3/2021							0.415 (U)
3/4/2021	0.397 (U)	1.49	0.0671 (U)				
8/25/2021		1.41					
9/1/2021	0.696 (U)						0.444 (U)
9/3/2021			0.622 (U)	3.18			
11/4/2021					0.721 (U)		
2/10/2022	1.25 (U)	0.81 (U)				0.964 (U)	0.846 (U)
2/11/2022			0.395 (U)	0.815 (U)	1.52		
8/31/2022	0.326 (U)						
9/1/2022		0.463 (U)	0.189 (U)	2.54	0.225 (U)	0.389 (U)	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
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)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.1	<0.1	
6/7/2016						<0.1			<0.1
7/27/2016						<0.1	<0.1	<0.1	<0.1
7/28/2016									
9/16/2016						<0.1		<0.1	
9/19/2016							<0.1		<0.1
11/2/2016									<0.1
11/3/2016						<0.1	<0.1	<0.1	
1/11/2017						<0.1	<0.1	<0.1	
1/13/2017									<0.1
3/1/2017							<0.1	<0.1	
3/2/2017						<0.1			
3/6/2017									<0.1
4/26/2017							<0.1	<0.1	<0.1
5/2/2017						<0.1			
6/28/2017							<0.1	<0.1	
6/29/2017						<0.1			<0.1
10/3/2017									
10/4/2017						<0.1		<0.1	<0.1
10/5/2017							<0.1		
3/28/2018						<0.1	<0.1	<0.1	
3/29/2018									<0.1
6/5/2018									
6/6/2018									<0.1
6/7/2018							<0.1		
6/11/2018						<0.1		<0.1	
9/25/2018						<0.1	<0.1	<0.1	<0.1
10/16/2018	<0.1								
3/5/2019						<0.1		<0.1	<0.1
3/6/2019							<0.1		
4/2/2019						<0.1			
4/3/2019							<0.1	<0.1	<0.1
9/24/2019									
9/25/2019						<0.1			<0.1
9/26/2019	<0.1						<0.1	<0.1	
2/11/2020						<0.1	<0.1	<0.1	
2/12/2020									<0.1
3/24/2020						<0.1	<0.1	<0.1	<0.1
3/25/2020	<0.1								
9/23/2020		<0.1		<0.1		<0.1	<0.1	<0.1	
9/24/2020	<0.1				<0.1				<0.1
2/9/2021	<0.1	<0.1		0.14	<0.1		<0.1	<0.1	<0.1
3/3/2021	<0.1	<0.1		0.14		<0.1	<0.1	<0.1	<0.1
3/4/2021					<0.1				
8/25/2021				<0.1					
8/26/2021					<0.1			<0.1	
8/27/2021						<0.1	<0.1		<0.1
9/1/2021	<0.1	<0.1							
2/9/2022						<0.1	<0.1	<0.1	<0.1
2/10/2022	<0.1	<0.1	<0.1	<0.1	<0.1				
8/30/2022						<0.1	<0.1	<0.1	
8/31/2022	<0.1								<0.1

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
9/1/2022		0.063 (J)	0.091 (J)	0.078 (J)	0.055 (J)				
2/7/2023						<0.1	<0.1	<0.1	<0.1
2/8/2023		0.061 (J)		0.079 (J)	0.05 (J)				
2/9/2023	<0.1		0.079 (J)						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-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 4/26/2023 11:07 AM

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	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.1	0.11 (J)	<0.1				
6/7/2016						<0.1			
7/26/2016			<0.1	0.05 (J)	<0.1				
7/28/2016						0.03 (J)			
8/30/2016									0.02 (J)
8/31/2016									
9/14/2016			<0.1	0.04 (J)	<0.1				
9/20/2016						<0.1			
11/2/2016			<0.1	<0.1					
11/4/2016					<0.1				
11/8/2016						<0.1			
11/16/2016									0.07 (J)
1/12/2017				0.04 (J)	<0.1				
1/13/2017			<0.1						
1/16/2017						<0.1			
2/24/2017									
2/27/2017									0.06 (J)
3/6/2017			<0.1						
3/7/2017				<0.1	<0.1				
3/9/2017						<0.1			
5/1/2017			<0.1	<0.1					
5/2/2017					<0.1	<0.1			
5/10/2017									<0.1
6/27/2017				<0.1	<0.1				
6/29/2017			<0.1						
7/10/2017						<0.1			
7/11/2017									<0.1
10/3/2017				<0.1	<0.1				
10/5/2017			<0.1						
10/11/2017	<0.1					<0.1			
10/12/2017		<0.1					<0.1	<0.1	<0.1
11/20/2017	<0.1	<0.1					0.2 (J)		
11/21/2017								<0.1	
1/10/2018		<0.1							
1/11/2018	<0.1							<0.1	
1/12/2018							0.21 (J)		
2/19/2018		<0.1						<0.1	
2/20/2018	0.23						<0.1		
3/29/2018			<0.1	<0.1	<0.1				
3/30/2018						<0.1			
4/3/2018	<0.1	<0.1					0.41	<0.1	
4/4/2018									<0.1
6/6/2018				0.15 (J)					
6/7/2018			<0.1		<0.1				
6/12/2018						<0.1			
6/27/2018								<0.1	
6/28/2018	<0.1	<0.1					0.43		
8/7/2018	0.048 (J)	<0.1					<0.1	0.11 (J)	
9/20/2018									0.041 (J)
9/24/2018	<0.1	<0.1					0.034 (J)	<0.1	
9/26/2018			<0.1	<0.1	<0.1				
9/27/2018						<0.1			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/4/2019			<0.1	0.19 (J)	<0.1				
3/6/2019						<0.1			
3/26/2019		<0.1							
3/27/2019	<0.1						0.24 (J)		<0.1
3/28/2019								0.1 (J)	
4/3/2019			<0.1	0.047 (J)	<0.1				
4/4/2019						0.049 (J)			
8/21/2019	<0.1	<0.1							
8/22/2019							<0.1	<0.1	<0.1
9/24/2019				0.05 (J)	<0.1				
9/25/2019			<0.1						
9/27/2019						0.12 (J)			
10/9/2019	<0.1	<0.1					<0.1	<0.1	<0.1
2/12/2020	<0.1	<0.1	<0.1	<0.1	<0.1				
3/24/2020		<0.1		<0.1	<0.1				
3/25/2020	<0.1		<0.1				<0.1	<0.1	<0.1
3/26/2020						<0.1			
9/22/2020			<0.1	0.056 (J)	<0.1				
9/24/2020	<0.1	<0.1				<0.1			<0.1
9/25/2020							<0.1	<0.1	
2/8/2021				0.055 (J)	<0.1				
2/9/2021			<0.1			<0.1	<0.1		
2/10/2021	<0.1	<0.1						<0.1	<0.1
3/2/2021				<0.1	<0.1				
3/3/2021			<0.1						
3/4/2021	<0.1	<0.1				<0.1	<0.1	<0.1	<0.1
8/25/2021						<0.1			<0.1
8/26/2021	0.063 (J)		<0.1	0.061 (J)	<0.1		<0.1	<0.1	
9/3/2021		<0.1							
9/27/2021									
2/8/2022	0.052 (J)	<0.1						<0.1	
2/10/2022				0.055 (J)	<0.1	<0.1	<0.1		<0.1
2/11/2022			<0.1						
8/30/2022				0.085 (J)	<0.1				
8/31/2022	0.065 (J)	0.05 (J)	0.061 (J)						
9/1/2022						0.057 (J)	<0.1	<0.1	0.053 (J)
2/7/2023	0.076 (J)			0.082 (J)					
2/8/2023		<0.1				<0.1	<0.1	<0.1	0.08 (J)
2/9/2023			0.067 (J)		<0.1				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	0.12 (J)
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	0.2 (J)
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	0.21 (J)
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	0.04 (J)
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	0.2 (J)
10/3/2017	
10/5/2017	
10/11/2017	
10/12/2017	0.1 (J)
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.1
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	<0.1
9/24/2018	
9/26/2018	
9/27/2018	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
3/4/2019	
3/6/2019	
3/26/2019	
3/27/2019	
3/28/2019	0.078 (J)
4/3/2019	
4/4/2019	
8/21/2019	0.062 (J)
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	<0.1
2/12/2020	
3/24/2020	
3/25/2020	0.073 (J)
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	<0.1
2/8/2021	
2/9/2021	0.058 (J)
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	0.063 (J)
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	0.1
2/8/2022	0.066 (J)
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	0.091 (J)
2/7/2023	
2/8/2023	0.11
2/9/2023	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016					0.12 (J)	<0.1			
6/2/2016				<0.1				<0.1	0.62
7/25/2016						0.06 (J)		0.06 (J)	
7/26/2016				0.02 (J)	0.08 (J)				0.49
8/30/2016		0.09 (J)							
8/31/2016			0.14 (J)						
9/1/2016	0.09 (J)								
9/13/2016					0.11 (J)	<0.1			
9/14/2016							0.08 (J)		
9/15/2016				<0.1					0.54
9/19/2016								<0.1	
11/1/2016					<0.3			<0.1	0.68
11/2/2016				<0.1					
11/4/2016						<0.1	<0.3		
11/14/2016		0.18 (J)							
11/15/2016	0.16 (J)								
11/28/2016			0.12 (J)						
12/15/2016							0.06 (J)		
1/10/2017				<0.1					
1/11/2017					0.05 (J)				0.49
1/16/2017						<0.1	0.1 (J)	<0.1	
2/21/2017								<0.1	
2/22/2017			0.09 (J)						
2/24/2017		0.05 (J)							
2/27/2017	0.06 (J)								
3/1/2017									
3/2/2017					<0.3	<0.1			0.48
3/3/2017							<0.3		
3/8/2017				<0.1					
4/26/2017				<0.1				<0.1	0.48
4/27/2017					0.04 (J)	0.01 (J)			
4/28/2017							0.06 (J)		
5/8/2017		0.03 (J)	0.05 (J)						
5/9/2017	0.05 (J)								
5/26/2017							0.09 (J)		
6/27/2017					<0.3	<0.1			
6/28/2017							0.11 (J)		0.47
6/30/2017				<0.1				<0.1	
7/11/2017		0.07 (J)							
7/13/2017	<0.1								
7/17/2017			0.14 (J)						
10/3/2017					<0.3	<0.1	<0.3		
10/4/2017								<0.1	<0.47
10/5/2017				<0.1					
10/10/2017		<0.1							
10/11/2017	0.14 (J)								
10/16/2017			0.12 (J)						
2/19/2018			0.17						
3/27/2018				<0.1		<0.1		<0.1	
3/28/2018							0.31		0.56
3/29/2018					<0.3				
4/2/2018		<0.1							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
4/4/2018	<0.1								
6/5/2018					0.055 (J)				
6/6/2018						<0.1			
6/7/2018							0.11 (J)		0.48
6/8/2018				<0.1					
6/11/2018								<0.1	
8/6/2018			0.087 (J)						
9/19/2018		<0.1							
9/20/2018	<0.1								
10/1/2018				<0.1	<0.3	<0.1	<0.3		0.44
10/2/2018								<0.1	
2/25/2019			0.14 (J)						
2/26/2019				<0.1				<0.1	
2/27/2019					0.052 (J)	<0.1	0.12 (J)		0.53
3/27/2019		0.081 (J)							
3/28/2019	<0.1				0.036 (J)	<0.1			
3/29/2019				<0.1			0.13 (J)		
4/1/2019								<0.1	0.45
6/12/2019			0.12 (J)						
8/19/2019			<0.3						
8/20/2019		<0.1							
9/24/2019					0.063 (J)	<0.1	0.081 (J)		
9/25/2019				<0.1				<0.1	0.46
9/26/2019	0.09 (J)								
10/8/2019		0.034 (J)	0.052 (J)						
2/10/2020					0.061 (J)	<0.1			
2/11/2020							0.075 (J)		
2/12/2020				<0.1				<0.1	0.4
3/17/2020		<0.1	0.053 (J)						
3/18/2020				<0.1		<0.1			
3/19/2020					0.064 (J)		0.093 (J)	<0.1	0.51
3/25/2020	<0.1								
8/26/2020			0.068 (J)						
8/27/2020		<0.1							
9/22/2020		<0.1	0.058 (J)						
9/23/2020					0.058 (J)	<0.1	0.08 (J)		0.47
9/24/2020	<0.1							<0.1	
9/25/2020				<0.1					
2/9/2021	<0.1								
2/10/2021				<0.1			0.094 (J)		0.43
2/11/2021								<0.1	
2/12/2021					0.068 (J)	<0.1			
3/1/2021		<0.1						<0.1	
3/2/2021			0.073 (J)	<0.1					
3/3/2021					0.078 (J)	<0.1	0.085 (J)		0.44
3/4/2021	<0.1								
8/19/2021		<0.1		<0.1	0.074 (J)	<0.1		<0.1	0.47
8/20/2021			0.06 (J)						
8/27/2021							0.12		
9/1/2021	<0.1								
2/8/2022	<0.1	<0.1	0.064 (J)						
2/9/2022					0.057 (J)	<0.1	0.094 (J)		0.43

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
2/10/2022				<0.1					
2/11/2022								<0.1	
8/30/2022			0.086 (J)		0.093 (J)		0.12		
8/31/2022	<0.1	0.065 (J)		0.053 (J)		0.065 (J)		0.06 (J)	0.42
2/7/2023			0.095 (J)		0.093 (J)	0.071 (J)	0.12		
2/8/2023		0.077 (J)		0.059 (J)				0.064 (J)	0.56
2/9/2023	<0.1								

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/1/2016	0.15 (J)
6/2/2016	
7/25/2016	0.14 (J)
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	0.18 (J)
9/15/2016	
9/19/2016	
11/1/2016	<0.1
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	0.09 (J)
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.1
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	0.08 (J)
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	0.12 (J)
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/3/2017	
10/4/2017	<0.1
10/5/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.1
3/29/2018	
4/2/2018	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
4/4/2018	
6/5/2018	
6/6/2018	
6/7/2018	
6/8/2018	0.2 (J)
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	<0.1
10/2/2018	
2/25/2019	
2/26/2019	
2/27/2019	0.13 (J)
3/27/2019	
3/28/2019	
3/29/2019	
4/1/2019	0.1 (J)
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	0.1 (J)
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	0.094 (J)
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	0.11 (J)
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	0.098 (J)
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	<0.1
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	0.1
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	0.12
9/1/2021	
2/8/2022	
2/9/2022	0.097 (J)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	0.13
2/7/2023	
2/8/2023	0.16
2/9/2023	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
6/8/2016							<0.1
8/1/2016							<0.1
9/2/2016			0.05 (J)				
9/20/2016							<0.1
11/8/2016							<0.1
11/14/2016			0.18 (J)				
1/17/2017							<0.1
2/28/2017			0.09 (J)				
3/8/2017							<0.1
5/2/2017							<0.1
5/9/2017			0.009 (J)				
7/7/2017							<0.1
7/13/2017			<0.1				
9/22/2017			0.09 (J)				
9/29/2017			<0.1				
10/5/2017							<0.1
10/6/2017			<0.1				
10/11/2017			<0.1				
10/12/2017		<0.1					
11/21/2017		0.26 (J)					
1/11/2018		<0.1					
2/20/2018		0.45					
3/30/2018			<0.1				<0.1
4/3/2018		0.31					
6/12/2018							<0.1
6/13/2018			<0.1				
6/29/2018		<0.1					
8/6/2018		0.23 (J)					
9/24/2018		<0.1					
9/26/2018			<0.1				<0.1
10/16/2018	<0.1						
3/5/2019							<0.1
3/6/2019			<0.1				
4/4/2019			0.043 (J)				0.033 (J)
9/26/2019	<0.1		0.094 (J)				0.098 (J)
3/25/2020	<0.1		<0.1				
3/26/2020							<0.1
9/23/2020							<0.1
9/24/2020	<0.1						
9/25/2020		<0.1					
10/7/2020			<0.1				
2/9/2021		<0.1					<0.1
2/10/2021	<0.1		<0.1				
3/3/2021							<0.1
3/4/2021	<0.1	<0.1	<0.1				
8/25/2021		<0.1					
9/1/2021	<0.1						<0.1
9/3/2021			<0.1	0.15			
2/10/2022	<0.1	<0.1				0.1	<0.1
2/11/2022			<0.1	0.17	0.1		
8/31/2022	<0.1						
9/1/2022		<0.1	<0.1	0.35	0.11	0.13	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
2/8/2023		<0.1		0.2	0.07 (J)		
2/9/2023	<0.1		<0.1			0.13	
2/10/2023							0.051 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.001	<0.001	
6/7/2016						<0.001			<0.001
7/27/2016						<0.001	<0.001	<0.001	<0.001
7/28/2016									
9/16/2016						<0.001		<0.001	
9/19/2016							<0.001		<0.001
11/2/2016									0.0013 (J)
11/3/2016						<0.001	<0.001	<0.001	
1/11/2017						<0.001	<0.001	<0.001	
1/13/2017									<0.001
3/1/2017							<0.001	<0.001	
3/2/2017						8E-05 (J)			
3/6/2017									<0.001
4/26/2017							<0.001	<0.001	<0.001
5/2/2017						<0.001			
6/28/2017							<0.001	0.0001 (J)	
6/29/2017						8E-05 (J)			<0.001
3/28/2018						<0.001	<0.001	<0.001	
3/29/2018									<0.001
3/5/2019						<0.001		<0.001	<0.001
3/6/2019							<0.001		
4/2/2019						<0.001			
4/3/2019							<0.001	<0.001	<0.001
9/24/2019									
9/25/2019						<0.001			<0.001
9/26/2019	<0.001						<0.001	<0.001	
2/11/2020						<0.001	<0.001	<0.001	
2/12/2020									<0.001
3/24/2020						6.4E-05 (J)	7.1E-05 (J)	5.4E-05 (J)	0.00011 (J)
3/25/2020	<0.001								
9/23/2020		<0.001		0.00028 (J)		4.1E-05 (J)	6E-05 (J)	9.7E-05 (J)	
9/24/2020	<0.001				0.00011 (J)				9.2E-05 (J)
2/9/2021	0.00019 (J)	0.00011 (J)		0.00054 (J)	7.3E-05 (J)		5E-05 (J)	9.4E-05 (J)	6.3E-05 (J)
3/3/2021	<0.001	8E-05 (J)		9.6E-05 (J)		<0.001	<0.001	7.6E-05 (J)	4.5E-05 (J)
3/4/2021					4.1E-05 (J)				
8/25/2021				<0.001					
8/26/2021					<0.001			<0.001	
8/27/2021						<0.001	<0.001		<0.001
9/1/2021	<0.001	<0.001							
2/9/2022						<0.001	<0.001	<0.001	<0.001
2/10/2022	<0.001	<0.001	<0.001	<0.001	<0.001				
8/30/2022						<0.001	<0.001	<0.001	
8/31/2022	<0.001								<0.001
9/1/2022		<0.001	<0.001	<0.001	<0.001				
2/7/2023						<0.001	<0.001	<0.001	<0.001
2/8/2023		<0.001		<0.001	<0.001				
2/9/2023	<0.001		<0.001						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-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	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-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 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
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				

Time Series

Constituent: Lead (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.001
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.001
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.001
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	8E-05 (J)
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.001
10/11/2017	
10/12/2017	<0.001
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.001
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	<0.001
9/24/2018	
3/4/2019	
3/6/2019	
4/3/2019	
4/4/2019	
8/21/2019	<0.001
8/22/2019	
9/24/2019	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
9/25/2019	
9/27/2019	
10/9/2019	<0.001
2/12/2020	
3/24/2020	
3/25/2020	7.5E-05 (J)
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	<0.001
2/8/2021	
2/9/2021	<0.001
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.001
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	<0.001
2/8/2022	<0.001
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	<0.001
2/7/2023	
2/8/2023	<0.001
2/9/2023	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			<0.001						
9/11/2007			<0.001						
3/20/2008			<0.001						
8/27/2008			<0.001						
3/3/2009			<0.001						
11/18/2009			<0.001						
3/3/2010			<0.001						
9/8/2010			<0.001						
3/10/2011			<0.001						
9/8/2011			<0.001						
3/5/2012			<0.001						
9/10/2012			<0.001						
2/6/2013			<0.001						
8/12/2013			<0.001						
2/5/2014			<0.001						
8/5/2014			<0.001						
2/4/2015			<0.001						
8/3/2015			<0.001						
2/16/2016			<0.001						
6/1/2016					0.00056 (J)	<0.001			
6/2/2016				<0.001				<0.001	0.00056 (J)
7/25/2016						<0.001		<0.001	
7/26/2016				<0.001	<0.001				0.0001 (J)
8/30/2016		<0.001							
8/31/2016			<0.001						
9/1/2016	<0.001								
9/13/2016					0.0001 (J)	<0.001			
9/14/2016							<0.001		
9/15/2016				<0.001					0.0002 (J)
9/19/2016								<0.001	
11/1/2016					<0.001			<0.001	<0.001
11/2/2016				<0.001					
11/4/2016						<0.001	<0.001		
11/14/2016		<0.001							
11/15/2016	<0.001								
11/28/2016			<0.001						
12/15/2016							<0.001		
1/10/2017				<0.001					
1/11/2017					<0.001				<0.001
1/16/2017						<0.001	<0.001	<0.001	
2/21/2017								<0.001	
2/22/2017			<0.001						
2/24/2017		<0.001							
2/27/2017	<0.001								
3/1/2017									
3/2/2017					0.0001 (J)	<0.001			0.0002 (J)
3/3/2017							<0.001		
3/8/2017				0.0001 (J)					
4/26/2017				<0.001				<0.001	<0.001
4/27/2017					<0.001	<0.001			
4/28/2017							<0.001		
5/8/2017		<0.001	<0.001						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	<0.001								
5/26/2017							<0.001		
6/27/2017					<0.001	<0.001			
6/28/2017							<0.001		<0.001
6/30/2017				<0.001				<0.001	
7/11/2017		<0.001							
7/13/2017	<0.001								
7/17/2017			<0.001						
10/10/2017		<0.001							
10/11/2017	<0.001								
10/16/2017			<0.001						
2/19/2018			<0.001						
3/27/2018				<0.001		<0.001		<0.001	
3/28/2018							<0.001		<0.001
3/29/2018					<0.001				
4/2/2018		<0.001							
4/4/2018	<0.001								
8/6/2018			<0.001						
9/19/2018		<0.001							
9/20/2018	<0.001								
2/25/2019			<0.001						
2/26/2019				<0.001				<0.001	
2/27/2019					<0.001	<0.001	<0.001		<0.001
6/12/2019			<0.001						
8/19/2019			<0.001						
8/20/2019		<0.001							
9/26/2019	<0.001								
10/8/2019			<0.001						
2/10/2020					4.9E-05 (J)	<0.001			
2/11/2020							<0.001		
2/12/2020				<0.001				<0.001	<0.001
3/17/2020			<0.001						
3/18/2020				<0.001		<0.001			
3/19/2020					0.00012 (J)		<0.001	<0.001	0.00017 (J)
3/25/2020	5.9E-05 (J)								
8/26/2020			<0.001						
8/27/2020		<0.001							
9/22/2020		<0.001	0.0001 (J)						
9/23/2020					<0.001	0.00021 (J)	0.0011 (J)		<0.001
9/24/2020	<0.001							<0.001	
9/25/2020				<0.001					
2/9/2021	<0.001								
2/10/2021				4.8E-05 (J)			0.00015 (J)		<0.001
2/11/2021								4.6E-05 (J)	
2/12/2021					4.4E-05 (J)	0.00038 (J)			
3/1/2021		<0.001						<0.001	
3/2/2021			<0.001	<0.001					
3/3/2021					5.6E-05 (J)	<0.001	<0.001		<0.001
3/4/2021	<0.001								
8/19/2021		<0.001		<0.001	<0.001	<0.001		<0.001	<0.001
8/20/2021			<0.001						
8/27/2021							<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
9/1/2021	<0.001								
2/8/2022	<0.001	<0.001	<0.001						
2/9/2022					<0.001	<0.001	<0.001		<0.001
2/10/2022				<0.001					
2/11/2022								<0.001	
8/30/2022			<0.001		<0.001		<0.001		
8/31/2022	<0.001	<0.001		<0.001		<0.001		<0.001	<0.001
2/7/2023			<0.001		<0.001	<0.001	<0.001		
2/8/2023		<0.001		<0.001				<0.001	<0.001
2/9/2023	<0.001								

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	<0.001
6/2/2016	
7/25/2016	<0.001
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.001
9/15/2016	
9/19/2016	
11/1/2016	<0.001
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.001
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.001
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.001
4/27/2017	
4/28/2017	
5/8/2017	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	<0.001
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.001
3/29/2018	
4/2/2018	
4/4/2018	
8/6/2018	
9/19/2018	
9/20/2018	
2/25/2019	
2/26/2019	
2/27/2019	<0.001
6/12/2019	
8/19/2019	
8/20/2019	
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	<0.001
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.001
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	0.00015 (J)
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	<0.001
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	<0.001
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
9/1/2021	
2/8/2022	
2/9/2022	<0.001
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	<0.001
2/7/2023	
2/8/2023	<0.001
2/9/2023	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
6/8/2016							<0.001
8/1/2016							<0.001
9/2/2016			0.0017 (J)				
9/20/2016							<0.001
11/8/2016							<0.001
11/14/2016			0.0002 (J)				
1/17/2017							<0.001
2/28/2017			0.0003 (J)				
3/8/2017							<0.001
5/2/2017							<0.001
5/9/2017			0.0004 (J)				
7/7/2017							<0.001
7/13/2017			0.0004 (J)				
9/22/2017			0.0003 (J)				
9/29/2017			0.0002 (J)				
10/6/2017			0.0002 (J)				
10/12/2017		0.0002 (J)					
11/21/2017		0.0002 (J)					
1/11/2018		0.0001 (J)					
2/20/2018		<0.001					
3/30/2018			<0.001				<0.001
4/3/2018		<0.001					
6/29/2018		<0.001					
8/6/2018		<0.001					
9/24/2018		<0.001					
3/5/2019							<0.001
3/6/2019			<0.001				
4/4/2019			0.00037 (J)				<0.001
9/26/2019	<0.001		0.00023 (J)				<0.001
3/25/2020	<0.001		0.0001 (J)				
3/26/2020							5.3E-05 (J)
9/23/2020							<0.001
9/24/2020	<0.001						
9/25/2020		8.5E-05 (J)					
10/7/2020			0.00077 (J)				
2/9/2021		8.8E-05 (J)					0.00036 (J)
2/10/2021	8.7E-05 (J)		0.00051 (J)				
3/3/2021							<0.001
3/4/2021	0.00015 (J)	<0.001	0.00025 (J)				
8/25/2021		<0.001					
9/1/2021	<0.001						<0.001
9/3/2021			<0.001	<0.001			
2/10/2022	<0.001	<0.001				<0.001	<0.001
2/11/2022			<0.001	<0.001	0.0031		
8/31/2022	<0.001						
9/1/2022		<0.001	<0.001	<0.001	<0.001	<0.001	
2/8/2023		<0.001		<0.001	<0.001		
2/9/2023	<0.001		<0.001			<0.001	
2/10/2023							<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							0.0088	0.015	
6/7/2016						<0.03			<0.03
7/27/2016						<0.03	0.0087 (J)	0.0049 (J)	<0.03
7/28/2016									
9/16/2016						<0.03		0.0031 (J)	
9/19/2016							0.0043 (J)		<0.03
11/2/2016									<0.03
11/3/2016						<0.03	<0.05	0.0021 (J)	
1/11/2017						0.0035 (J)	0.0052 (J)	0.0025 (J)	
1/13/2017									<0.03
3/1/2017							0.0053 (J)	0.0029 (J)	
3/2/2017						<0.03			
3/6/2017									<0.03
4/26/2017							0.0041 (J)	0.0019 (J)	<0.03
5/2/2017						<0.03			
6/28/2017							0.0039 (J)	0.0016 (J)	
6/29/2017						<0.03			<0.03
3/28/2018						<0.03	0.0041 (J)	0.0024 (J)	
3/29/2018									<0.03
6/5/2018									
6/6/2018									<0.03
6/7/2018							0.0032 (J)		
6/11/2018						<0.03		0.0014 (J)	
9/25/2018						<0.03	0.0036 (J)	0.0016 (J)	<0.03
10/16/2018	0.0052 (J)								
3/5/2019						<0.03		0.0031 (J)	<0.03
3/6/2019							0.0033 (J)		
4/2/2019						<0.03			
4/3/2019							0.0035 (J)	0.0028 (J)	<0.03
9/24/2019									
9/25/2019						<0.03			<0.03
9/26/2019	<0.03						0.0032 (J)	0.0029 (J)	
2/11/2020						<0.03	0.0033 (J)	0.005 (J)	
2/12/2020									<0.03
3/24/2020						0.0034 (J)	0.0033 (J)	0.0035 (J)	<0.03
3/25/2020	0.0011 (J)								
9/23/2020		<0.03		0.03 (J)		<0.03	0.003 (J)	0.0022 (J)	
9/24/2020	0.011 (J)				0.013 (J)				<0.03
2/9/2021	0.021 (J)	<0.03		0.018 (J)	0.016 (J)		0.0031 (J)	0.0019 (J)	<0.03
3/3/2021	0.022 (J)	<0.03		0.02 (J)		<0.03	0.0034 (J)	0.0021 (J)	<0.03
3/4/2021					0.016 (J)				
8/25/2021				0.033					
8/26/2021					0.015 (J)			0.0019 (J)	
8/27/2021						<0.03	0.0032 (J)		<0.03
9/1/2021	0.013 (J)	<0.03							
12/9/2021			0.042						
2/9/2022						<0.03	0.0032 (J)	0.0015 (J)	0.00082 (J)
2/10/2022	0.014 (J)	<0.03	0.054	0.036	0.015 (J)				
8/30/2022						<0.03	0.0036 (J)	0.0014 (J)	
8/31/2022	0.021 (J)								<0.03
9/1/2022		<0.03	0.041	0.032	0.013 (J)				
2/7/2023						<0.03	0.003 (J)	0.0012 (J)	<0.03

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/8/2023		<0.03		0.033	0.014 (J)				
2/9/2023	0.019 (J)		0.048						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-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	<0.05
1/11/2017	
1/13/2017	0.0062 (J)
3/1/2017	
3/2/2017	
3/6/2017	0.0059 (J)
4/26/2017	0.0054 (J)
5/2/2017	
6/28/2017	
6/29/2017	0.0047 (J)
3/28/2018	
3/29/2018	0.0062 (J)
6/5/2018	0.0061 (J)
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	0.0062 (J)
10/16/2018	
3/5/2019	0.0053 (J)
3/6/2019	
4/2/2019	0.0051 (J)
4/3/2019	
9/24/2019	0.0068 (J)
9/25/2019	
9/26/2019	
2/11/2020	
2/12/2020	0.0065 (J)
3/24/2020	0.0064 (J)
3/25/2020	
9/23/2020	
9/24/2020	0.0069 (J)
2/9/2021	0.006 (J)
3/3/2021	
3/4/2021	0.0062 (J)
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	0.0057 (J)
12/9/2021	
2/9/2022	0.0061 (J)
2/10/2022	
8/30/2022	0.0079 (J)
8/31/2022	
9/1/2022	
2/7/2023	0.0059 (J)

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
2/8/2023	
2/9/2023	

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			0.013	0.0049 (J)	<0.05				
6/7/2016						<0.005			
7/26/2016			0.0123 (J)	0.0063 (J)	0.0027 (J)				
7/28/2016						0.0019 (J)			
8/30/2016									0.0257 (J)
8/31/2016									
9/14/2016			0.0137 (J)	0.0058 (J)	0.0029 (J)				
9/20/2016						0.0021 (J)			
11/2/2016			0.0136 (J)	0.0053 (J)					
11/4/2016					<0.05				
11/8/2016						0.0024 (J)			
11/16/2016									0.0221 (J)
1/12/2017				0.0054 (J)	0.0032 (J)				
1/13/2017			0.0121 (J)						
1/16/2017						0.0022 (J)			
2/24/2017									
2/27/2017									0.0208 (J)
3/6/2017			0.0143 (J)						
3/7/2017				0.0056 (J)	0.0035 (J)				
3/9/2017						0.0025 (J)			
5/1/2017			0.0132 (J)	0.0031 (J)					
5/2/2017					0.0031 (J)	0.0019 (J)			
5/10/2017									0.0316 (J)
6/27/2017				0.0018 (J)	0.0029 (J)				
6/29/2017			0.0145 (J)						
7/10/2017						0.0018 (J)			
7/11/2017									0.0281 (J)
10/11/2017	0.0018 (J)								
10/12/2017		<0.03					0.0095 (J)	0.004 (J)	0.0331 (J)
11/20/2017	0.0018 (J)	<0.03					0.0083 (J)		
11/21/2017								0.0043 (J)	
1/10/2018		<0.03							
1/11/2018	0.0019 (J)							0.0044 (J)	
1/12/2018							0.0089 (J)		
2/19/2018		<0.03						<0.05	
2/20/2018	<0.05						0.0082 (J)		
3/29/2018			0.014 (J)	0.0058 (J)	0.0034 (J)				
3/30/2018						0.0039 (J)			
4/3/2018	0.0022 (J)	<0.03					0.0097 (J)	0.0047 (J)	
4/4/2018									0.037 (J)
6/6/2018				0.0068 (J)					
6/7/2018			0.013 (J)		0.0032 (J)				
6/12/2018						0.0017 (J)			
6/27/2018								0.0042 (J)	
6/28/2018	0.0026 (J)	<0.03					0.0093 (J)		
8/7/2018	0.0024 (J)	<0.03					0.0092 (J)	0.0038 (J)	
9/20/2018									0.049 (J)
9/24/2018	0.0022 (J)	<0.03					0.0083 (J)	0.0037 (J)	
9/26/2018			0.014 (J)	0.0065 (J)	0.0032 (J)				
9/27/2018						0.0017 (J)			
3/4/2019			0.015 (J)	0.0065 (J)	0.0032 (J)				
3/6/2019						0.0025 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-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)				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	0.006 (J)
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	0.0095 (J)
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	0.0104 (J)
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	0.0123 (J)
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	0.0131 (J)
10/11/2017	
10/12/2017	0.013 (J)
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	0.016 (J)
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	0.019 (J)
9/24/2018	
9/26/2018	
9/27/2018	
3/4/2019	
3/6/2019	

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
4/3/2019	
4/4/2019	
8/21/2019	0.015 (J)
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	0.018 (J)
2/12/2020	
3/24/2020	
3/25/2020	0.016 (J)
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	0.018 (J)
2/8/2021	
2/9/2021	0.024 (J)
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	0.025 (J)
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	0.0092 (J)
2/8/2022	0.016 (J)
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	0.014 (J)
2/7/2023	
2/8/2023	0.015 (J)
2/9/2023	

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016					0.015	<0.15			
6/2/2016				<0.03				<0.05	0.018
7/25/2016						0.002 (J)		<0.05	
7/26/2016				<0.03	0.0135 (J)				0.0221 (J)
8/30/2016		0.0061 (J)							
8/31/2016			<0.25						
9/1/2016	0.0034 (J)								
9/13/2016					0.0112 (J)	<0.15			
9/14/2016							0.004 (J)		
9/15/2016				<0.03					0.0197 (J)
9/19/2016								<0.05	
11/1/2016					0.0163 (J)			<0.05	0.0194 (J)
11/2/2016				<0.03					
11/4/2016						<0.15	<0.25		
11/14/2016		0.0064 (J)							
11/15/2016	0.0044 (J)								
11/28/2016			<0.25						
12/15/2016							0.0026 (J)		
1/10/2017				<0.03					
1/11/2017					0.0166 (J)				0.0177 (J)
1/16/2017						0.0023 (J)	0.0023 (J)	<0.05	
2/21/2017								<0.05	
2/22/2017			<0.25						
2/24/2017		0.0049 (J)							
2/27/2017	0.0036 (J)								
3/1/2017									
3/2/2017					0.0159 (J)	0.0025 (J)			0.0185 (J)
3/3/2017							0.0013 (J)		
3/8/2017				<0.03					
4/26/2017				<0.03				<0.05	0.0183 (J)
4/27/2017					0.0137 (J)	0.0027 (J)			
4/28/2017							0.0031 (J)		
5/8/2017		0.0053 (J)	0.0014 (J)						
5/9/2017	0.0038 (J)								
5/26/2017							0.0038 (J)		
6/27/2017					0.0094 (J)	0.0024 (J)			
6/28/2017							0.0026 (J)		0.0173 (J)
6/30/2017				<0.03				<0.05	
7/11/2017		0.0051 (J)							
7/13/2017	0.0036 (J)								
7/17/2017			<0.25						
10/10/2017		0.0043 (J)							
10/11/2017	0.0036 (J)								
10/16/2017			0.0016 (J)						
2/19/2018			<0.25						
3/27/2018				<0.03		0.0023 (J)		0.0011 (J)	
3/28/2018							0.0025 (J)		0.02 (J)
3/29/2018					0.0078 (J)				
4/2/2018		0.0045 (J)							
4/4/2018	0.0039 (J)								
6/5/2018					0.0079 (J)				
6/6/2018						0.0024 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/7/2018							0.0017 (J)		0.02 (J)
6/8/2018				<0.03					
6/11/2018								0.0012 (J)	
8/6/2018			<0.25						
9/19/2018		0.0043 (J)							
9/20/2018	0.0036 (J)								
10/1/2018				<0.03	0.0053 (J)	0.0023 (J)	<0.25		0.02 (J)
10/2/2018								<0.05	
2/26/2019				<0.03				0.0011 (J)	
2/27/2019					0.0093 (J)	0.0023 (J)	0.0011 (J)		0.021 (J)
3/28/2019					0.013 (J)	0.0022 (J)			
3/29/2019				<0.03			0.0016 (J)		
4/1/2019								0.001 (J)	0.021 (J)
8/19/2019			0.0019 (J)						
8/20/2019		0.0036 (J)							
9/24/2019					0.0046 (J)	0.0023 (J)	0.0011 (J)		
9/25/2019				<0.03				0.0011 (J)	0.02 (J)
9/26/2019	0.0036 (J)								
10/8/2019		0.0036 (J)	0.0015 (J)						
2/10/2020					0.011 (J)	0.0023 (J)			
2/11/2020							0.0012 (J)		
2/12/2020				<0.03				0.0013 (J)	0.019 (J)
3/17/2020		0.0046 (J)	0.0017 (J)						
3/18/2020				<0.03		0.0024 (J)			
3/19/2020					0.013 (J)		0.0022 (J)	0.0012 (J)	0.023 (J)
3/25/2020	0.0037 (J)								
8/26/2020			0.0032 (J)						
8/27/2020		0.0039 (J)							
9/22/2020		0.0036 (J)	0.0029 (J)						
9/23/2020					0.014 (J)	0.0024 (J)	0.0016 (J)		0.023 (J)
9/24/2020	0.0037 (J)							0.0011 (J)	
9/25/2020				<0.03					
2/9/2021	0.0038 (J)								
2/10/2021				<0.03			0.0039 (J)		0.023 (J)
2/11/2021								0.0012 (J)	
2/12/2021					0.01 (J)	0.0025 (J)			
3/1/2021		0.0037 (J)						0.0011 (J)	
3/2/2021			0.0033 (J)	<0.03					
3/3/2021					0.012 (J)	0.0025 (J)	0.0016 (J)		0.024 (J)
3/4/2021	0.0035 (J)								
8/19/2021		0.0038 (J)		<0.03	0.013 (J)	0.0023 (J)		0.0012 (J)	0.023 (J)
8/20/2021			0.0028 (J)						
8/27/2021							0.0058 (J)		
9/1/2021	0.0036 (J)								
2/8/2022	0.0036 (J)	0.0039 (J)	0.0031 (J)						
2/9/2022					0.013 (J)	0.0027 (J)	0.006 (J)		0.026 (J)
2/10/2022				<0.03					
2/11/2022								0.0014 (J)	
8/30/2022			0.0025 (J)		0.013 (J)		0.0044 (J)		
8/31/2022	0.0031 (J)	0.0037 (J)		<0.03		<0.15		0.0012 (J)	0.021 (J)
2/7/2023			0.0022 (J)		0.006 (J)	0.0029 (J)	0.0047 (J)		
2/8/2023		0.0037 (J)		<0.03				0.0011 (J)	0.023 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
2/9/2023	0.0033 (J)								

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/1/2016	0.01
6/2/2016	
7/25/2016	0.0132 (J)
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	0.012 (J)
9/15/2016	
9/19/2016	
11/1/2016	0.0115 (J)
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	0.0085 (J)
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	0.0114 (J)
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	0.0092 (J)
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	0.0085 (J)
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	0.013 (J)
3/29/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/7/2018	
6/8/2018	0.012 (J)
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	0.011 (J)
10/2/2018	
2/26/2019	
2/27/2019	0.014 (J)
3/28/2019	
3/29/2019	
4/1/2019	0.013 (J)
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	0.01 (J)
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	0.013 (J)
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	0.014 (J)
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	0.013 (J)
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	0.015 (J)
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	0.017 (J)
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	0.026 (J)
9/1/2021	
2/8/2022	
2/9/2022	0.021 (J)
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	0.022 (J)
2/7/2023	
2/8/2023	0.018 (J)

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWA-3I (bg)

2/9/2023

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
6/8/2016							<0.03
8/1/2016							<0.03
9/2/2016			0.0029 (J)				
9/20/2016							<0.03
11/8/2016							<0.03
11/14/2016			0.0044 (J)				
1/17/2017							<0.03
2/28/2017			0.0038 (J)				
3/8/2017							<0.03
5/2/2017							<0.03
5/9/2017			0.0057 (J)				
7/7/2017							<0.03
7/13/2017			0.007 (J)				
9/22/2017			0.0067 (J)				
9/29/2017			0.0064 (J)				
10/6/2017			0.0065 (J)				
10/12/2017		0.0271 (J)					
11/21/2017		0.0255 (J)					
1/11/2018		0.0271 (J)					
2/20/2018		<0.25					
3/30/2018			0.0061 (J)				<0.03
4/3/2018		0.027 (J)					
6/12/2018							<0.03
6/13/2018			0.0065 (J)				
6/29/2018		0.032 (J)					
8/6/2018		0.033 (J)					
9/24/2018		0.028 (J)					
9/26/2018			0.0063 (J)				<0.03
10/16/2018	0.0011 (J)						
3/5/2019							<0.03
3/6/2019			0.0057 (J)				
4/4/2019			0.0058 (J)				<0.03
9/26/2019	<0.03		0.0041 (J)				<0.03
3/25/2020	0.011 (J)		0.0032 (J)				
3/26/2020							<0.03
9/23/2020							<0.03
9/24/2020	0.001 (J)						
9/25/2020		0.028 (J)					
10/7/2020			0.0014 (J)				
2/9/2021		0.024 (J)					<0.03
2/10/2021	0.0012 (J)		0.0011 (J)				
3/3/2021							<0.03
3/4/2021	0.0015 (J)	0.028 (J)	<0.03				
8/25/2021		0.023 (J)					
9/1/2021	0.0019 (J)						<0.03
9/3/2021			0.00086 (J)	0.013 (J)			
2/10/2022	0.0021 (J)	0.017 (J)				0.006 (J)	<0.03
2/11/2022			0.00093 (J)	0.0087 (J)	0.015 (J)		
8/31/2022	0.0025 (J)						
9/1/2022		0.016 (J)	0.00089 (J)	0.0044 (J)	0.023 (J)	0.0051 (J)	
2/8/2023		0.013 (J)		0.0088 (J)	0.025 (J)		
2/9/2023	0.0026 (J)		0.001 (J)			0.0045 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
2/10/2023							<0.03

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.0002	<0.0002	
6/7/2016						9.5E-05 (J)			9.6E-05 (J)
7/27/2016						<0.0002	<0.0002	<0.0002	<0.0002
7/28/2016									
9/16/2016						<0.0002		<0.0002	
9/19/2016							<0.0002		<0.0002
11/2/2016									<0.0002
11/3/2016						<0.0002	<0.0002	<0.0002	
1/11/2017						<0.0002	<0.0002	<0.0002	
1/13/2017									<0.0002
3/1/2017							<0.0002	<0.0002	
3/2/2017						<0.0002			
3/6/2017									<0.0002
4/26/2017							<0.0002	<0.0002	<0.0002
5/2/2017						<0.0002			
6/28/2017							<0.0002	<0.0002	
6/29/2017						<0.0002			<0.0002
3/28/2018						<0.0002	<0.0002	<0.0002	
3/29/2018									<0.0002
9/25/2018						<0.0002	<0.0002	<0.0002	<0.0002
3/5/2019						<0.0002		<0.0002	<0.0002
3/6/2019							<0.0002		
2/11/2020						<0.0002	<0.0002	<0.0002	
2/12/2020									<0.0002
9/23/2020		<0.0002		<0.0002					
9/24/2020	<0.0002				<0.0002				
2/9/2021	<0.0002	<0.0002		<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
3/3/2021	<0.0002	<0.0002		<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
3/4/2021					<0.0002				
8/25/2021				<0.0002					
8/26/2021					<0.0002			<0.0002	
8/27/2021						<0.0002	<0.0002		<0.0002
9/1/2021	<0.0002	<0.0002							
2/9/2022						<0.0002	<0.0002	<0.0002	<0.0002
2/10/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002				
8/30/2022						<0.0002	<0.0002	<0.0002	
8/31/2022	<0.0002								<0.0002
9/1/2022		<0.0002	0.00016 (J)	<0.0002	<0.0002				
2/7/2023						0.00018 (J)	0.00013 (J)	0.00017 (J)	0.00015 (J)
2/8/2023		<0.0002		<0.0002	<0.0002				
2/9/2023	<0.0002		<0.0002						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-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	

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-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 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
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				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.0002
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.0002
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.0002
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	<0.0002
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.0002
10/11/2017	
10/12/2017	<0.0002
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.0002
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	5.2E-05 (J)
9/24/2018	
9/26/2018	
9/27/2018	
3/4/2019	
3/6/2019	
8/21/2019	<0.0002
8/22/2019	
2/12/2020	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
2/8/2021	
2/9/2021	<0.0002
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.0002
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	9E-05 (JB)
2/8/2022	<0.0002
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	<0.0002
2/7/2023	
2/8/2023	<0.0002
2/9/2023	

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			<0.0002						
9/11/2007			<0.0002						
3/20/2008			<0.0002						
8/27/2008			<0.0002						
3/3/2009			<0.0002						
11/18/2009			<0.0002						
3/3/2010			<0.0002						
9/8/2010			<0.0002						
3/10/2011			<0.0002						
9/8/2011			<0.0002						
3/5/2012			<0.0002						
9/10/2012			<0.0002						
2/6/2013			<0.0002						
8/12/2013			<0.0002						
2/5/2014			<0.0002						
8/5/2014			<0.0002						
2/4/2015			<0.0002						
8/3/2015			<0.0002						
2/16/2016			1.36E-05 (J)						
6/1/2016					<0.0002	<0.0002			
6/2/2016				<0.0002				<0.0002	<0.0002
7/25/2016						<0.0002		<0.0002	
7/26/2016				<0.0002	<0.0002				<0.0002
8/30/2016		<0.0002							
8/31/2016			<0.0002						
9/1/2016	<0.0002								
9/13/2016					<0.0002	<0.0002			
9/14/2016							<0.0002		
9/15/2016				<0.0002					<0.0002
9/19/2016								<0.0002	
11/1/2016					<0.0002			<0.0002	<0.0002
11/2/2016				<0.0002					
11/4/2016						<0.0002	<0.0002		
11/14/2016		<0.0002							
11/15/2016	<0.0002								
11/28/2016			<0.0002						
12/15/2016							<0.0002		
1/10/2017				<0.0002					
1/11/2017					<0.0002				<0.0002
1/16/2017						<0.0002	<0.0002	<0.0002	
2/21/2017								<0.0002	
2/22/2017			<0.0002						
2/24/2017		<0.0002							
2/27/2017	<0.0002								
3/1/2017									
3/2/2017					<0.0002	<0.0002			<0.0002
3/3/2017							<0.0002		
3/8/2017				<0.0002					
4/26/2017				<0.0002				<0.0002	<0.0002
4/27/2017					<0.0002	<0.0002			
4/28/2017							<0.0002		
5/8/2017		<0.0002	<0.0002						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	<0.0002								
5/26/2017							<0.0002		
6/27/2017					<0.0002	<0.0002			
6/28/2017							<0.0002		<0.0002
6/30/2017				<0.0002				<0.0002	
7/11/2017		<0.0002							
7/13/2017	<0.0002								
7/17/2017			<0.0002						
10/10/2017		<0.0002							
10/11/2017	<0.0002								
10/16/2017			<0.0002						
2/19/2018			<0.0002						
3/27/2018				<0.0002		<0.0002		<0.0002	
3/28/2018							<0.0002		<0.0002
3/29/2018					<0.0002				
4/2/2018		<0.0002							
4/4/2018	<0.0002								
8/6/2018			<0.0002						
9/19/2018		5.3E-05 (J)							
9/20/2018	6.1E-05 (J)								
2/25/2019			7.4E-05 (J)						
2/26/2019				6.1E-05 (J)				6.8E-05 (J)	
2/27/2019					5.1E-05 (J)	5.4E-05 (J)	<0.0002		6.2E-05 (J)
3/28/2019					4E-05 (J)	<0.0002			
3/29/2019				<0.0002			<0.0002		
4/1/2019								8.2E-05 (J)	9.6E-05 (J)
6/12/2019			<0.0002						
8/19/2019			<0.0002						
8/20/2019		<0.0002							
9/24/2019					<0.0002	<0.0002	<0.0002		
9/25/2019				<0.0002				<0.0002	<0.0002
10/8/2019			<0.0002						
2/10/2020					<0.0002	<0.0002			
2/11/2020							<0.0002		
2/12/2020				<0.0002				<0.0002	<0.0002
5/6/2020			<0.0002						
8/26/2020			<0.0002						
8/27/2020		<0.0002							
9/22/2020			<0.0002						
2/9/2021	0.00014 (J)								
2/10/2021				<0.0002			<0.0002		<0.0002
2/11/2021								<0.0002	
2/12/2021					<0.0002	<0.0002			
3/2/2021			<0.0002						
3/4/2021	<0.0002								
8/19/2021		<0.0002							
8/20/2021			<0.0002						
9/1/2021	<0.0002								
2/8/2022	<0.0002	<0.0002	<0.0002						
2/9/2022					<0.0002	<0.0002	<0.0002		<0.0002
2/10/2022				<0.0002					
2/11/2022								<0.0002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
8/30/2022			<0.0002		<0.0002		<0.0002		
8/31/2022	<0.0002	<0.0002		<0.0002		<0.0002		<0.0002	<0.0002
2/7/2023			0.00013 (J)		<0.0002	<0.0002	<0.0002		
2/8/2023		<0.0002		<0.0002				<0.0002	<0.0002
2/9/2023	<0.0002								

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	<0.0002
6/2/2016	
7/25/2016	<0.0002
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.0002
9/15/2016	
9/19/2016	
11/1/2016	<0.0002
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.0002
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.0002
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.0002
4/27/2017	
4/28/2017	
5/8/2017	

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	<0.0002
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.0002
3/29/2018	
4/2/2018	
4/4/2018	
8/6/2018	
9/19/2018	
9/20/2018	
2/25/2019	
2/26/2019	
2/27/2019	6.1E-05 (J)
3/28/2019	
3/29/2019	
4/1/2019	8.4E-05 (J)
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	<0.0002
10/8/2019	
2/10/2020	
2/11/2020	<0.0002
2/12/2020	
5/6/2020	
8/26/2020	
8/27/2020	
9/22/2020	
2/9/2021	
2/10/2021	<0.0002
2/11/2021	
2/12/2021	
3/2/2021	
3/4/2021	
8/19/2021	
8/20/2021	
9/1/2021	
2/8/2022	
2/9/2022	<0.0002
2/10/2022	
2/11/2022	

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
8/30/2022	
8/31/2022	<0.0002
2/7/2023	
2/8/2023	<0.0002
2/9/2023	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
6/8/2016							<0.0002
8/1/2016							<0.0002
9/2/2016			<0.0002				
9/20/2016							<0.0002
11/8/2016							<0.0002
11/14/2016			<0.0002				
1/17/2017							<0.0002
2/28/2017			<0.0002				
3/8/2017							<0.0002
5/2/2017							<0.0002
5/9/2017			<0.0002				
7/7/2017							<0.0002
7/13/2017			<0.0002				
9/22/2017			<0.0002				
9/29/2017			<0.0002				
10/6/2017			<0.0002				
10/12/2017		<0.0002					
11/21/2017		6E-05 (J)					
1/11/2018		<0.0002					
2/20/2018		<0.0002					
3/30/2018			<0.0002				<0.0002
4/3/2018		<0.0002					
6/29/2018		<0.0002					
8/6/2018		<0.0002					
9/24/2018		<0.0002					
9/26/2018			<0.0002				<0.0002
3/5/2019							<0.0002
3/6/2019			<0.0002				
9/24/2020	<0.0002						
9/25/2020		<0.0002					
2/9/2021		<0.0002					<0.0002
2/10/2021	<0.0002		<0.0002				
3/3/2021							<0.0002
3/4/2021	<0.0002	<0.0002	<0.0002				
8/25/2021		<0.0002					
9/1/2021	<0.0002						<0.0002
9/3/2021			<0.0002	<0.0002			
2/10/2022	<0.0002	<0.0002				<0.0002	<0.0002
2/11/2022			<0.0002	<0.0002	<0.0002		
8/31/2022	<0.0002						
9/1/2022		0.00019 (J)	<0.0002	<0.0002	<0.0002	<0.0002	
2/8/2023		<0.0002		<0.0002	<0.0002		
2/9/2023	<0.0002		<0.0002			<0.0002	
2/10/2023							<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.01	<0.01	
6/7/2016						<0.01			<0.01
7/27/2016						<0.01	<0.01	<0.01	<0.01
7/28/2016									
9/16/2016						<0.01		<0.01	
9/19/2016							<0.01		<0.01
11/2/2016									<0.01
11/3/2016						<0.01	<0.01	<0.01	
1/11/2017						<0.01	<0.01	<0.01	
1/13/2017									<0.01
3/1/2017							<0.01	<0.01	
3/2/2017						<0.01			
3/6/2017									<0.01
4/26/2017							<0.01	<0.01	<0.01
5/2/2017						<0.01			
6/28/2017							<0.01	<0.01	
6/29/2017						<0.01			<0.01
3/28/2018						<0.01	<0.01	<0.01	
3/29/2018									<0.01
3/5/2019						<0.01		<0.01	<0.01
3/6/2019							<0.01		
2/11/2020						<0.01	<0.01	<0.01	
2/12/2020									<0.01
3/24/2020						<0.01	<0.01	<0.01	<0.01
3/25/2020	<0.01								
9/23/2020		<0.01		0.0068 (J)		<0.01	<0.01	<0.01	
9/24/2020	0.0022 (J)				<0.01				<0.01
2/9/2021	0.0038 (J)	<0.01		0.0068 (J)	<0.01		<0.01	<0.01	<0.01
3/3/2021	0.0037 (J)	<0.01		0.0049 (J)		<0.01	<0.01	<0.01	<0.01
3/4/2021					<0.01				
8/25/2021				0.0081 (J)					
8/26/2021					<0.01			<0.01	
8/27/2021						<0.01	<0.01		<0.01
9/1/2021	0.0014 (J)	<0.01							
2/9/2022						<0.01	<0.01	<0.01	<0.01
2/10/2022	0.00089 (J)	<0.01	0.0036 (J)	0.0076 (J)	<0.01				
8/30/2022						<0.01	<0.01	<0.01	
8/31/2022	<0.01								<0.01
9/1/2022		<0.01	0.0057 (J)	0.0074 (J)	<0.01				
2/7/2023						<0.01	<0.01	<0.01	<0.01
2/8/2023		<0.01		0.0076 (J)	<0.01				
2/9/2023	<0.01		0.0067 (J)						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-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	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.01	0.0035 (J)	<0.01				
6/7/2016						<0.01			
7/26/2016			<0.01	0.0042 (J)	<0.01				
7/28/2016						<0.01			
8/30/2016									0.0019 (J)
8/31/2016									
9/14/2016			<0.01	0.0041 (J)	<0.01				
9/20/2016						<0.01			
11/2/2016			<0.01	0.0039 (J)					
11/4/2016					<0.01				
11/8/2016						<0.01			
11/16/2016									0.0027 (J)
1/12/2017				0.0041 (J)	<0.01				
1/13/2017			<0.01						
1/16/2017						<0.01			
2/24/2017									
2/27/2017									0.0031 (J)
3/6/2017			<0.01						
3/7/2017				0.0047 (J)	<0.01				
3/9/2017						<0.01			
5/1/2017			<0.01	0.0045 (J)					
5/2/2017					<0.01	<0.01			
5/10/2017									0.0017 (J)
6/27/2017				0.004 (J)	<0.01				
6/29/2017			<0.01						
7/10/2017						<0.01			
7/11/2017									0.0014 (J)
10/11/2017	0.0094 (J)								
10/12/2017		<0.01					<0.01	<0.01	<0.01
11/20/2017	0.0081 (J)	<0.01					<0.01		
11/21/2017								<0.01	
1/10/2018		<0.01							
1/11/2018	0.0074 (J)							<0.01	
1/12/2018							<0.01		
2/19/2018		<0.01						<0.01	
2/20/2018	<0.01						<0.01		
3/29/2018			<0.01	<0.01	<0.01				
3/30/2018						<0.01			
4/3/2018	0.006 (J)	<0.01					<0.01	<0.01	
4/4/2018									<0.01
6/27/2018								<0.01	
6/28/2018	0.005 (J)	<0.01					<0.01		
8/7/2018	0.0045 (J)	<0.01					<0.01	<0.01	
9/20/2018									<0.01
9/24/2018	0.0035 (J)	<0.01					<0.01	<0.01	
3/4/2019			<0.01	<0.01	<0.01				
3/6/2019						<0.01			
8/21/2019	0.0021 (J)	<0.01							
8/22/2019							<0.01	<0.01	<0.01
10/9/2019	0.0018 (J)	<0.01					<0.01	<0.01	<0.01
2/12/2020	0.0025 (J)	<0.01	<0.01	0.0011 (J)	<0.01				
3/24/2020		<0.01		0.0011 (J)	<0.01				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
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				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	0.0022 (J)
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.01
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.01
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	<0.01
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.01
10/11/2017	
10/12/2017	<0.01
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.01
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	<0.01
9/24/2018	
3/4/2019	
3/6/2019	
8/21/2019	0.0012 (J)
8/22/2019	
10/9/2019	0.0012 (J)
2/12/2020	
3/24/2020	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
3/25/2020	0.0015 (J)
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	0.0011 (J)
2/8/2021	
2/9/2021	0.0012 (J)
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	0.0011 (J)
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	0.0062 (J)
2/8/2022	0.002 (J)
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	0.0014 (J)
2/7/2023	
2/8/2023	0.0016 (J)
2/9/2023	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016					0.014 (J)	0.012 (J)			
6/2/2016				<0.01				<0.01	0.0093 (J)
7/25/2016						0.0098 (J)		<0.01	
7/26/2016				<0.01	0.0132				0.0113
8/30/2016		<0.01							
8/31/2016			<0.01						
9/1/2016	<0.01								
9/13/2016					0.0127	0.01 (J)			
9/14/2016							0.0039 (J)		
9/15/2016				<0.01					0.0112
9/19/2016								<0.01	
11/1/2016					0.0092 (J)			<0.01	0.0099 (J)
11/2/2016				<0.01					
11/4/2016						0.01	0.0077 (J)		
11/14/2016		<0.01							
11/15/2016	<0.01								
11/28/2016			<0.01						
12/15/2016							0.0066 (J)		
1/10/2017				<0.01					
1/11/2017					0.0093 (J)				0.0093 (J)
1/16/2017						0.0086 (J)	0.0056 (J)	<0.01	
2/21/2017								<0.01	
2/22/2017			<0.01						
2/24/2017		<0.01							
2/27/2017	0.0007 (J)								
3/1/2017									
3/2/2017					0.0099 (J)	0.01			0.0103
3/3/2017							0.0049 (J)		
3/8/2017				<0.01					
4/26/2017				<0.01				<0.01	0.01
4/27/2017					0.0103	0.0101			
4/28/2017							0.004 (J)		
5/8/2017		<0.01	<0.01						
5/9/2017	<0.01								
5/26/2017							0.0029 (J)		
6/27/2017					0.0097 (J)	0.0093 (J)			
6/28/2017							0.0036 (J)		0.0102
6/30/2017				<0.01				<0.01	
7/11/2017		<0.01							
7/13/2017	<0.01								
7/17/2017			<0.01						
10/10/2017		<0.01							
10/11/2017	<0.01								
10/16/2017			<0.01						
2/19/2018			<0.01						
3/27/2018				<0.01		0.0074 (J)		<0.01	
3/28/2018							0.0038 (J)		0.011
3/29/2018					0.0076 (J)				
4/2/2018		<0.01							
4/4/2018	<0.01								
6/5/2018					0.0092 (J)				
6/6/2018						0.0073 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/7/2018							0.004 (J)		0.011
6/8/2018				<0.01					
6/11/2018								<0.01	
8/6/2018			<0.01						
9/19/2018		<0.01							
9/20/2018	<0.01								
10/1/2018				<0.01	0.0085 (J)	0.0076 (J)	0.0042 (J)		0.012
10/2/2018								<0.01	
2/26/2019				<0.01				<0.01	
2/27/2019					0.0087 (J)	0.0078 (J)	0.0041 (J)		0.011
3/28/2019					0.0092 (J)	0.0082 (J)			
3/29/2019				<0.01			0.0041 (J)		
4/1/2019								<0.01	0.012
8/19/2019			<0.01						
8/20/2019		<0.01							
9/24/2019					0.0072 (J)	0.0074 (J)	0.0054 (J)		
9/25/2019				<0.01				<0.01	0.012
10/8/2019		<0.01							
2/10/2020					0.0087 (J)	0.0062 (J)			
2/11/2020							0.0057 (J)		
2/12/2020				<0.01				<0.01	0.013
3/17/2020		<0.01							
3/18/2020				<0.01		0.0056 (J)			
3/19/2020					0.0088 (J)		0.0046 (J)	<0.01	0.013
3/25/2020	<0.01								
8/26/2020			<0.01						
8/27/2020		<0.01							
9/22/2020		<0.01							
9/23/2020					0.008 (J)	0.0059 (J)	0.0071 (J)		0.012
9/24/2020	<0.01							<0.01	
9/25/2020				<0.01					
2/9/2021	<0.01								
2/10/2021				<0.01			0.0041 (J)		0.014
2/11/2021								<0.01	
2/12/2021					0.008 (J)	0.0056 (J)			
3/1/2021		<0.01						<0.01	
3/2/2021				<0.01					
3/3/2021					0.0088 (J)	0.0049 (J)	0.0074 (J)		0.013
3/4/2021	<0.01								
8/19/2021		<0.01		<0.01	0.0083 (J)	0.005 (J)		<0.01	0.013
8/20/2021			<0.01						
8/27/2021							0.0048 (J)		
9/1/2021	<0.01								
2/8/2022	<0.01	<0.01	<0.01						
2/9/2022					0.0093 (J)	0.0055 (J)	0.0057 (J)		0.013
2/10/2022				<0.01					
2/11/2022								<0.01	
8/30/2022			<0.01		0.0094 (J)		0.0068 (J)		
8/31/2022	<0.01	<0.01		<0.01		0.0055 (J)		<0.01	0.011
2/7/2023			<0.01		<0.01	<0.01	0.0061 (J)		
2/8/2023		<0.01		<0.01				<0.01	0.012
2/9/2023	<0.01								

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/1/2016	0.0055 (J)
6/2/2016	
7/25/2016	0.0037 (J)
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	0.0034 (J)
9/15/2016	
9/19/2016	
11/1/2016	0.0025 (J)
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	0.0033 (J)
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	0.0044 (J)
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	0.0075 (J)
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	0.008 (J)
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	0.0025 (J)
3/29/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/7/2018	
6/8/2018	0.0041 (J)
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	0.0037 (J)
10/2/2018	
2/26/2019	
2/27/2019	0.0027 (J)
3/28/2019	
3/29/2019	
4/1/2019	0.0021 (J)
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	0.0087 (J)
10/8/2019	
2/10/2020	
2/11/2020	0.003 (J)
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	0.0043 (J)
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	0.01
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	0.0038 (J)
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	0.0036 (J)
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	0.0099 (J)
9/1/2021	
2/8/2022	
2/9/2022	0.0087 (J)
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	0.0068 (J)
2/7/2023	
2/8/2023	0.0065 (J)
2/9/2023	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
6/8/2016							<0.01
8/1/2016							<0.01
9/2/2016			0.0027 (J)				
9/20/2016							<0.01
11/8/2016							<0.01
11/14/2016			0.0071 (J)				
1/17/2017							<0.01
2/28/2017			0.0038 (J)				
3/8/2017							<0.01
5/2/2017							<0.01
5/9/2017			0.0025 (J)				
7/7/2017							<0.01
7/13/2017			0.0014 (J)				
9/22/2017			<0.01				
9/29/2017			<0.01				
10/6/2017			<0.01				
10/12/2017		0.0022 (J)					
11/21/2017		0.0016 (J)					
1/11/2018		0.0015 (J)					
2/20/2018		<0.01					
3/30/2018			<0.01				<0.01
4/3/2018		<0.01					
6/29/2018		0.0021 (J)					
8/6/2018		<0.01					
9/24/2018		<0.01					
3/5/2019							<0.01
3/6/2019			<0.01				
3/25/2020	0.0019 (J)		<0.01				
3/26/2020							<0.01
9/23/2020							<0.01
9/24/2020	<0.01						
9/25/2020		0.0016 (J)					
10/7/2020			0.0015 (J)				
2/9/2021		0.0016 (J)					<0.01
2/10/2021	<0.01		<0.01				
3/3/2021							<0.01
3/4/2021	<0.01	0.0024 (J)	<0.01				
8/25/2021		0.0011 (J)					
9/1/2021	<0.01						<0.01
9/3/2021			<0.01	0.0018 (J)			
2/10/2022	<0.01	<0.01				<0.01	<0.01
2/11/2022			<0.01	0.0037 (J)	0.011		
8/31/2022	<0.01						
9/1/2022		<0.01	<0.01	0.0059 (J)	0.0084 (J)	<0.01	
2/8/2023		<0.01		0.0024 (J)	0.005 (J)		
2/9/2023	<0.01		<0.01			<0.01	
2/10/2023							<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: pH (S.U.) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							6.17	5.71	
6/7/2016						5.62			5.77
7/27/2016						5.59	6.14	5.46	5.79
7/28/2016									
9/16/2016						5.58			
9/19/2016							6.04	5.59	5.73
11/2/2016									5.67
11/3/2016						5.59	5.97	5.39	
1/11/2017						5.59	6.05	5.48	
1/13/2017									5.79
3/1/2017							5.94	5.41	
3/2/2017						5.54			
3/6/2017									5.63
4/26/2017							5.99	5.4	5.66
5/2/2017						5.47			
6/28/2017							6	5.36	
6/29/2017						5.56			5.85
10/3/2017									
10/4/2017						5.57		5.32	5.83
10/5/2017							6.11		
3/28/2018						5.59	6.1	5.34	
3/29/2018									5.93
6/5/2018									
6/6/2018									5.86
6/7/2018							5.98		
6/11/2018						5.58		5.28	
9/25/2018						5.59	5.81	4.86	5.84
3/5/2019						5.48		5.26	6.07
3/6/2019							5.99		
4/2/2019						5.74			
4/3/2019							6.29	5.47	5.71
9/24/2019									
9/25/2019						5.49			5.86
9/26/2019							6.04	5.2	
1/3/2020	5.78								
1/15/2020		6.25			5.64				
1/16/2020			6.67	6.47					
2/11/2020			6.62		5.37	5.58	6.07	5.3	
2/12/2020									6
3/24/2020						5.57	5.98	5.33	5.86
3/25/2020	6.13								
9/23/2020		5.66		5.89		5.58 (D)	6.01 (D)	5.29 (D)	
9/24/2020	6				5.38				5.8 (D)
2/9/2021	6.42	5.81		6.96	5.34		6.12	5.43	5.86
3/3/2021	6.54	5.67		6.8		5.52	5.89	5.31	5.89
3/4/2021					5.32				
8/25/2021				6.79					
8/26/2021					5.35			4.4	
8/27/2021						5.27	5.4		5.57
9/1/2021	5.97	6.67							
9/3/2021			5.74						
2/9/2022						5.53	5.98	5.28	5.91

Time Series

Constituent: pH (S.U.) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/10/2022	5.8	5.64	5.93	6.1	5.22 (D)				
8/30/2022						4.68	5.82	5.18	
8/31/2022	5.64								5.38
9/1/2022		4.98	5.93	5.87	5.32				
2/7/2023						5.47	6	5.03	5.63
2/8/2023		5.95		6.19	5.67				
2/9/2023	5.73		5.89						

Time Series

Constituent: pH (S.U.) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-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 4/26/2023 11:07 AM

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	

Time Series

Constituent: pH (S.U.) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-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 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/4/2019			6.18	7.46	5.75				
3/6/2019						5.84			
3/26/2019		5.3							
3/27/2019	5.84						4.79		5.57
3/28/2019								5	
4/3/2019			6.43	7.11	5.63				
4/4/2019						5.64			
8/21/2019	5.96	5.26							
8/22/2019							4.81	4.89	5.61
9/24/2019				6.93	5.6				
9/25/2019			6.2						
9/27/2019						5.77			
10/9/2019	5.81	5.22					4.8	4.86	5.5
2/12/2020	5.97	5.3	6.15	7.52	5.83				
3/24/2020		5.29		7.34	5.81				
3/25/2020	5.78		6.26				4.89	4.87	5.53
3/26/2020						5.69			
9/22/2020			5.8 (D)	7.19 (D)	5.99 (D)				
9/24/2020	5.7 (D)	5.43 (D)				5.51			5.55
9/25/2020							4.9	4.95	
2/8/2021					5.67				
2/9/2021			6.06			5.61	5.04		
2/10/2021	5.8	5.19						4.98	5.65
3/2/2021				7.15	5.63				
3/3/2021			6.21						
3/4/2021	5.54	5.23				5.44	5.01	4.69	5.59
8/25/2021						5.46			6.73
8/26/2021	6.91		5.82	7.16	5.51		4.54	6.77	
9/3/2021		4.75							
9/27/2021									
2/8/2022	5.78	5.26						5.07 (D)	
2/10/2022				6.99	5.14	5.51	4.85		5.57
2/11/2022			5.95						
8/30/2022				7.4	5				
8/31/2022	5.3	4.53	5.5						
9/1/2022						5.27	4.91	4.43	5.49
2/7/2023	5.49			6.64					
2/8/2023		5.71				5.33	5.16	4.69	5.48
2/9/2023			6.23		5.9				

Time Series

Constituent: pH (S.U.) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	7.27
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	6.79
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	6.39
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	6.5
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	6.32
10/3/2017	
10/5/2017	
10/11/2017	
10/12/2017	5.97
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	6.41
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	5.69
9/24/2018	
9/26/2018	
9/27/2018	

Time Series

Constituent: pH (S.U.) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
3/4/2019	
3/6/2019	
3/26/2019	
3/27/2019	
3/28/2019	5.96
4/3/2019	
4/4/2019	
8/21/2019	5.84
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	5.78
2/12/2020	
3/24/2020	
3/25/2020	5.79
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	5.75
2/8/2021	
2/9/2021	5.86
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	5.88
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	6.08
2/8/2022	5.82 (D)
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	5.62
2/7/2023	
2/8/2023	5.4
2/9/2023	

Time Series

Constituent: pH (S.U.) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	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 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
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 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
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								

Time Series

Constituent: pH (S.U.) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/3/2015	
2/16/2016	
6/1/2016	7.72
6/2/2016	
7/25/2016	7.74
7/26/2016	
8/30/2016	
9/1/2016	
9/13/2016	
9/14/2016	7.65
9/15/2016	
9/19/2016	
11/1/2016	7.7
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	7.53
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	7.42
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	7.4
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	7.5
6/30/2017	
7/11/2017	
7/13/2017	

Time Series

Constituent: pH (S.U.) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
7/17/2017	
10/3/2017	
10/4/2017	7.45
10/5/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	7.74
3/29/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	
6/7/2018	
6/8/2018	7.64
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	7.47
10/2/2018	
2/25/2019	
2/26/2019	
2/27/2019	7.54
3/27/2019	
3/28/2019	
3/29/2019	
4/1/2019	7.74
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	7.47
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	7.09
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	7.31
3/25/2020	
5/6/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	7.37
9/24/2020	
9/25/2020	
2/9/2021	

Time Series

Constituent: pH (S.U.) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
2/10/2021	7.58
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	8.23
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	7.39
9/1/2021	
2/8/2022	
2/9/2022	7.66
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	7.49
2/7/2023	
2/8/2023	7.73
2/9/2023	

Time Series

Constituent: pH (S.U.) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
6/8/2016							5.65
8/1/2016							5.47
9/2/2016			5.84				
9/20/2016							5.61
11/8/2016							5.55
11/14/2016			6.28				
1/17/2017							5.53
2/28/2017			5.99				
3/8/2017							5.62
5/2/2017							5.46
5/9/2017			6.3				
7/7/2017							5.81
7/13/2017			5.57				
9/22/2017			5.5				
9/29/2017			5.58				
10/5/2017							5.45
10/6/2017			5.51				
10/11/2017			5.47				
10/12/2017		5.57					
11/21/2017		5.49					
1/11/2018		5.87					
2/20/2018		5.9					
3/30/2018			5.51				5.64
4/3/2018		5.66					
6/12/2018							5.64
6/13/2018			5.5				
6/29/2018		5.49					
8/6/2018		5.52					
9/24/2018		5.37					
9/26/2018			5.53				5.61
3/5/2019							5.72
3/6/2019			5.21				
4/4/2019			5.74				5.66
9/26/2019			5.51				5.52
3/25/2020	5.65		5.49				
3/26/2020							5.51
9/23/2020							5.64
9/24/2020	5.52						
9/25/2020		5.46					
10/7/2020			5.86				
2/9/2021		5.42					5.69
2/10/2021	5.53		6.31				
3/3/2021							5.7
3/4/2021	5.64	5.51	5.67				
8/25/2021		5.48					
9/1/2021	6.82						5.22
9/3/2021			5.06	7.44			
2/10/2022	5.35	4.93 (D)				4.46	4.66
2/11/2022			5.58	7.84	6.4		
8/31/2022	5.28						
9/1/2022		4.98	5.18	8.06	6.2	4.74	
2/8/2023		5.15		7.95	6.12		

Time Series

Constituent: pH (S.U.) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
2/9/2023	5.5		5.67			5.14	
2/10/2023							5.67

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.005	<0.005	
6/7/2016						0.001 (J)			<0.005
7/27/2016						0.0012 (J)	<0.005	<0.005	<0.005
7/28/2016									
9/16/2016						0.0015 (J)		<0.005	
9/19/2016							<0.005		<0.005
11/2/2016									<0.005
11/3/2016						0.0015 (J)	<0.005	<0.005	
1/11/2017						0.0014 (J)	<0.005	<0.005	
1/13/2017									<0.005
3/1/2017							<0.005	<0.005	
3/2/2017						0.0017 (J)			
3/6/2017									<0.005
4/26/2017							<0.005	<0.005	<0.005
5/2/2017						<0.005			
6/28/2017							<0.005	<0.005	
6/29/2017						<0.005			<0.005
3/28/2018						<0.005	<0.005	<0.005	
3/29/2018									<0.005
6/5/2018									
6/6/2018									<0.005
6/7/2018							<0.005		
6/11/2018						<0.005		<0.005	
9/25/2018						<0.005	<0.005	<0.005	<0.005
10/16/2018	0.0019 (J)								
3/5/2019						<0.005		<0.005	<0.005
3/6/2019							<0.005		
4/2/2019						<0.005			
4/3/2019							<0.005	<0.005	<0.005
9/24/2019									
9/25/2019						<0.005			<0.005
9/26/2019	<0.005						<0.005	<0.005	
1/15/2020		<0.005			0.045				
1/16/2020			<0.005	0.0018 (J)					
2/11/2020						<0.005	<0.005	<0.005	
2/12/2020									<0.005
3/24/2020						<0.005	<0.005	<0.005	<0.005
3/25/2020	<0.005								
9/23/2020		<0.005		0.016		<0.005	<0.005	<0.005	
9/24/2020	<0.005				0.026				<0.005
2/9/2021	<0.005	<0.005		<0.005	0.06		<0.005	<0.005	<0.005
3/3/2021	<0.005	<0.005		<0.005		<0.005	<0.005	<0.005	<0.005
3/4/2021					0.061				
8/25/2021				0.019					
8/26/2021					0.055			<0.005	
8/27/2021						<0.005	<0.005		<0.005
9/1/2021	0.0027 (J)	<0.005							
2/9/2022						<0.005	<0.005	<0.005	<0.005
2/10/2022	0.0034 (J)	<0.005	<0.005	0.019	0.057				
8/30/2022						<0.005	<0.005	<0.005	
8/31/2022	0.0041 (J)								<0.005
9/1/2022		<0.005	<0.005	0.023	0.048				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/7/2023						<0.005	<0.005	<0.005	<0.005
2/8/2023		<0.005		0.017	0.052				
2/9/2023	0.0051		<0.005						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-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 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
2/7/2023	<0.005
2/8/2023	
2/9/2023	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.005	<0.005	<0.005				
6/7/2016						0.037			
7/26/2016			0.0009 (J)	<0.005	0.0009 (J)				
7/28/2016						0.0385			
8/30/2016									0.0711
8/31/2016									
9/14/2016			<0.005	<0.005	<0.005				
9/20/2016						0.0464			
11/2/2016			<0.005	<0.005					
11/4/2016					<0.005				
11/8/2016						0.0521			
11/16/2016									0.0313
1/12/2017				<0.005	<0.005				
1/13/2017			<0.005						
1/16/2017						0.0469			
2/24/2017									
2/27/2017									0.0316
3/6/2017			<0.005						
3/7/2017				<0.005	<0.005				
3/9/2017						0.0437			
5/1/2017			<0.005	<0.005					
5/2/2017					<0.005	0.0395			
5/10/2017									0.053
6/27/2017				<0.005	<0.005				
6/29/2017			<0.005						
7/10/2017						0.0386			
7/11/2017									0.0697
10/11/2017	<0.005								
10/12/2017		<0.005					0.265	0.0191	0.0594
11/20/2017	<0.005	0.0042 (J)					0.246		
11/21/2017								0.0687	
1/10/2018		0.0043 (J)							
1/11/2018	<0.005							0.069	
1/12/2018							0.249		
2/19/2018		<0.005						0.071	
2/20/2018	<0.005						0.253		
3/29/2018			<0.005	<0.005	<0.005				
3/30/2018						0.028			
4/3/2018	<0.005	<0.005					0.23	0.067	
4/4/2018									0.055
6/6/2018				<0.005					
6/7/2018			<0.005		<0.005				
6/12/2018						0.026			
6/27/2018								0.066	
6/28/2018	<0.005	0.0032 (J)					0.23		
8/7/2018	<0.005	0.0031 (J)					0.2	0.061	
9/20/2018									0.041
9/24/2018	0.0015 (J)	0.0026 (J)					0.2	0.061	
9/26/2018			<0.005	<0.005	<0.005				
9/27/2018						0.023			
3/4/2019			<0.005	<0.005	<0.005				
3/6/2019						0.019			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
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				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.005
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.005
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.005
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	<0.005
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.005
10/11/2017	
10/12/2017	<0.005
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.005
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	<0.005
9/24/2018	
9/26/2018	
9/27/2018	
3/4/2019	
3/6/2019	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
4/3/2019	
4/4/2019	
8/21/2019	<0.005
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	<0.005
2/12/2020	
3/24/2020	
3/25/2020	<0.005
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	<0.005
2/8/2021	
2/9/2021	<0.005
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.005
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	<0.005
2/8/2022	<0.005
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	<0.005
2/7/2023	
2/8/2023	<0.005
2/9/2023	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			<0.005						
9/11/2007			<0.005						
3/20/2008			<0.005						
8/27/2008			<0.005						
3/3/2009			<0.005						
11/18/2009			<0.005						
3/3/2010			<0.005						
9/8/2010			<0.005						
3/10/2011			<0.005						
9/8/2011			<0.005						
3/5/2012			<0.005						
9/10/2012			<0.005						
2/6/2013			<0.005						
8/12/2013			<0.005						
2/5/2014			<0.005						
8/5/2014			<0.005						
2/4/2015			<0.005						
8/3/2015			<0.005						
2/16/2016			<0.005						
6/1/2016					<0.005	<0.005			
6/2/2016				0.0011 (J)				<0.005	<0.005
7/25/2016						<0.005		<0.005	
7/26/2016				0.0016 (J)	<0.005				<0.005
8/30/2016		0.0017 (J)							
8/31/2016			<0.005						
9/1/2016	0.0086 (J)								
9/13/2016					<0.005	<0.005			
9/14/2016							<0.005		
9/15/2016				0.0014 (J)					<0.005
9/19/2016								<0.005	
11/1/2016					<0.005			<0.005	<0.005
11/2/2016				<0.005					
11/4/2016						<0.005	<0.005		
11/14/2016		<0.005							
11/15/2016	0.0056 (J)								
11/28/2016			<0.005						
12/15/2016							<0.005		
1/10/2017				0.0012 (J)					
1/11/2017					<0.005				<0.005
1/16/2017						<0.005	<0.005	<0.005	
2/21/2017								<0.005	
2/22/2017			<0.005						
2/24/2017		0.0011 (J)							
2/27/2017	0.0098 (J)								
3/1/2017									
3/2/2017					<0.005	<0.005			<0.005
3/3/2017							<0.005		
3/8/2017				<0.005					
4/26/2017				<0.005				<0.005	<0.005
4/27/2017					<0.005	<0.005			
4/28/2017							<0.005		
5/8/2017		<0.005	<0.005						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	0.0076 (J)								
5/26/2017							<0.005		
6/27/2017					<0.005	<0.005			
6/28/2017							<0.005		<0.005
6/30/2017				<0.005				<0.005	
7/11/2017		<0.005							
7/13/2017	0.0093 (J)								
7/17/2017			<0.005						
10/10/2017		<0.005							
10/11/2017	0.0089 (J)								
10/16/2017			<0.005						
2/19/2018			<0.005						
3/27/2018				<0.005		<0.005		<0.005	
3/28/2018							<0.005		<0.005
3/29/2018					<0.005				
4/2/2018		<0.005							
4/4/2018	<0.01								
8/6/2018			<0.005						
9/19/2018		<0.005							
9/20/2018	0.0081 (J)								
2/25/2019			<0.005						
2/26/2019				<0.005				<0.005	
2/27/2019					<0.005	<0.005	<0.005		<0.005
3/28/2019					<0.005	<0.005			
3/29/2019				0.0019 (J)			<0.005		
4/1/2019								<0.005	<0.005
6/12/2019			<0.005						
8/19/2019			<0.005						
8/20/2019		<0.005							
9/24/2019					<0.005	<0.005	<0.005		
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 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
3/3/2021					<0.005	<0.005	<0.005		<0.005
3/4/2021	0.0058								
8/19/2021		<0.005		<0.005	<0.005	<0.005		<0.005	<0.005
8/20/2021			<0.005						
8/27/2021							<0.005		
9/1/2021	0.0066								
2/8/2022	0.0075	<0.005	<0.005						
2/9/2022					<0.005	<0.005	<0.005		<0.005
2/10/2022				0.0014 (J)					
2/11/2022								<0.005	
8/30/2022			<0.005		<0.005		<0.005		
8/31/2022	0.0062	<0.005		<0.005		<0.005		<0.005	<0.005
2/7/2023			<0.005		<0.005	<0.005	<0.005		
2/8/2023		<0.005		<0.005				<0.005	<0.005
2/9/2023	0.0054								

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	<0.005
6/2/2016	
7/25/2016	<0.005
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.005
9/15/2016	
9/19/2016	
11/1/2016	<0.005
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.005
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.005
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.005
4/27/2017	
4/28/2017	
5/8/2017	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	<0.005
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.005
3/29/2018	
4/2/2018	
4/4/2018	
8/6/2018	
9/19/2018	
9/20/2018	
2/25/2019	
2/26/2019	
2/27/2019	<0.005
3/28/2019	
3/29/2019	
4/1/2019	<0.005
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	<0.005
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	<0.005
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.005
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	<0.005
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	<0.005
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
3/3/2021	<0.005
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	<0.005
9/1/2021	
2/8/2022	
2/9/2022	<0.005
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	<0.005
2/7/2023	
2/8/2023	<0.005
2/9/2023	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
6/8/2016							<0.005
8/1/2016							<0.005
9/2/2016			0.0012 (J)				
9/20/2016							<0.005
11/8/2016							<0.005
11/14/2016			<0.005				
1/17/2017							<0.005
2/28/2017			0.0017 (J)				
3/8/2017							<0.005
5/2/2017							<0.005
5/9/2017			0.0018 (J)				
7/7/2017							<0.005
7/13/2017			0.0031 (J)				
9/22/2017			0.0024 (J)				
9/29/2017			0.002 (J)				
10/6/2017			<0.005				
10/12/2017		0.234					
11/21/2017		0.225					
1/11/2018		0.168					
2/20/2018		0.315					
3/30/2018			<0.005				<0.005
4/3/2018		0.28					
6/12/2018							<0.005
6/13/2018			0.0024 (J)				
6/29/2018		0.26					
8/6/2018		0.21					
9/24/2018		0.33					
9/26/2018			0.0037 (J)				<0.005
10/16/2018	<0.005						
3/5/2019							<0.005
3/6/2019			0.0033 (J)				
4/4/2019			0.0029 (J)				<0.005
9/26/2019	<0.005		0.0019 (J)				<0.005
3/25/2020	<0.005		0.0024 (J)				
3/26/2020							<0.005
9/23/2020							<0.005
9/24/2020	<0.005						
9/25/2020		0.32					
10/7/2020			<0.005				
2/9/2021		0.28					<0.005
2/10/2021	<0.005		<0.005				
3/3/2021							<0.005
3/4/2021	<0.005	0.27	<0.005				
8/25/2021		0.2					
9/1/2021	0.0016 (J)						<0.005
9/3/2021			<0.005	<0.005			
2/10/2022	0.003 (J)	0.2				0.029	<0.005
2/11/2022			<0.005	<0.005	0.0025 (J)		
8/31/2022	0.0033 (J)						
9/1/2022		0.17	<0.005	<0.005	0.0041 (J)	0.026	
2/8/2023		0.16		<0.005	0.0057		
2/9/2023	0.0041 (J)		0.0027 (J)			0.028	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
2/10/2023							<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							1.2	1.8	
6/7/2016						4.4			<1
7/27/2016						4.7	1.7	1.9	0.08 (J)
7/28/2016									
9/16/2016						4.8		1.7	
9/19/2016							1.8		0.08 (J)
11/2/2016									0.1 (J)
11/3/2016						5.3	0.69 (J)	1.9	
1/11/2017						5.2	<1	1.7	
1/13/2017									<1
3/1/2017							1.8	<1.5	
3/2/2017						5			
3/6/2017									<1
4/26/2017							1.6	1.9	<1
5/2/2017						5			
6/28/2017							<1	<1.5	
6/29/2017						5.2			<1
10/3/2017									
10/4/2017						5.3		1.7	<1
10/5/2017							1.6		
6/5/2018									
6/6/2018									0.049 (J)
6/7/2018							0.68 (J)		
6/11/2018						5.2		0.95 (J)	
9/25/2018						6.1	1	1.5	0.13 (J)
10/16/2018	83.7								
4/2/2019						5.1			
4/3/2019							0.82 (J)	1.3	0.12 (J)
9/24/2019									
9/25/2019						5.5			<1
9/26/2019	46.6						0.64 (J)	1	
3/24/2020						5.4	<1	0.99 (J)	<1
3/25/2020	11.7								
9/23/2020		9.1		152		5.1	0.53 (J)	1.1	
9/24/2020	13.1				438				<1
3/3/2021	16.9	7.9		91.7		5.2	<1	1	<1
3/4/2021					340				
8/25/2021				164					
8/26/2021					338			1.2	
8/27/2021						5.3	0.59 (J)		<1
9/1/2021	94.7	8.3							
2/9/2022						4.8	0.51 (J)	1.1	<1
2/10/2022	120	7.1	305	160	276				
8/30/2022						4.7	0.78 (J)	1.3	
8/31/2022	173								<1
9/1/2022		6.6	324	179	354				
2/7/2023						4.9	0.78 (J)	1.2	<1
2/8/2023		6.7		192	368				
2/9/2023	209		419						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-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	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			8	20	1.9				
6/7/2016						56			
7/26/2016			7.7	20	1.8				
7/28/2016						57			
8/30/2016									980
8/31/2016									
9/14/2016			7.5	19	1.8				
9/20/2016						68			
11/2/2016			8.2	20					
11/4/2016					2				
11/8/2016						79			
11/16/2016									940
1/12/2017				19	1.9				
1/13/2017			8.1						
1/16/2017						72			
2/24/2017									
2/27/2017									940
3/6/2017			8						
3/7/2017				20	2.1				
3/9/2017						69			
5/1/2017			8.4	20					
5/2/2017					2	60			
5/10/2017									1200
6/27/2017				18	2.1				
6/29/2017			9.2						
7/10/2017						57			
7/11/2017									1300
10/3/2017				16	2.3				
10/5/2017			9.6						
10/11/2017	20					52			
10/12/2017		17					940	400	1100
11/20/2017	24	71					980		
11/21/2017								430	
1/10/2018		66							
1/11/2018	23							390	
1/12/2018							880		
2/19/2018		57.2						414	
2/20/2018	20.6						905		
4/3/2018	24.5	49.4					872	406	
4/4/2018									1020
6/6/2018				8.3					
6/7/2018			8.5		2				
6/12/2018						41.4			
6/27/2018								357	
6/28/2018	22	43.8					869		
8/7/2018	20.7	40.5					879	346	
9/20/2018									810
9/24/2018	21.2	39.7					872	358	
9/26/2018			10.2	7.9	2.3				
9/27/2018						39.6			
3/26/2019		34.3							
3/27/2019	17.7						851		831

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/28/2019								258	
4/3/2019			8.5	7	2.1				
4/4/2019						27.9			
9/24/2019				5.5	2.4				
9/25/2019			8.5						
9/27/2019						30.3			
10/9/2019	15	27.9					708	263	725
3/24/2020		25.2		5.9	2.1				
3/25/2020	14.3		8.8				483	214	642
3/26/2020						36.5			
9/22/2020			8.2	5.5	2.1				
9/24/2020	11.7	22.9				52.5			579
9/25/2020							414	175	
3/2/2021				2.6	2.3				
3/3/2021			7.8						
3/4/2021	12	21.5				61.7 (M1)	356	117	537
8/25/2021						68			500
8/26/2021	19.2		8.5	6	2.4		328	117	
9/3/2021		21.3							
9/27/2021									
2/8/2022	14.6	17.9						109	
2/10/2022				4.9	2.4	78.7	290		485
2/11/2022			7.7						
8/30/2022				5.7	2.4				
8/31/2022	10.9	17.9	8						
9/1/2022						79	282	117	502
2/7/2023	9.7			5.2					
2/8/2023		17.5				78	251	119	494
2/9/2023			8.9		2.9				

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	34
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	240
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	89
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	100
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	110
10/3/2017	
10/5/2017	
10/11/2017	
10/12/2017	120
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
4/3/2018	
4/4/2018	160
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	247
9/24/2018	
9/26/2018	
9/27/2018	
3/26/2019	
3/27/2019	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
3/28/2019	181
4/3/2019	
4/4/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	279
3/24/2020	
3/25/2020	164
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	281
3/2/2021	
3/3/2021	
3/4/2021	328
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	56.5
2/8/2022	133
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	169
2/7/2023	
2/8/2023	164
2/9/2023	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016					5	4.2			
6/2/2016				6.6				1.3	5.8
7/25/2016						3.7		1.2	
7/26/2016				6.1	5.4				6.7
8/30/2016		160							
8/31/2016			29						
9/1/2016	95								
9/13/2016					2.9	5.2			
9/14/2016							9.4		
9/15/2016				6.1					6
9/19/2016								1.2	
11/1/2016					3.9			1.3	4.9
11/2/2016				6.3					
11/4/2016						5	13		
11/14/2016		150							
11/15/2016	94								
11/28/2016			36						
12/15/2016							1.8		
1/10/2017				5.9					
1/11/2017					3.7				4.5
1/16/2017						7.9	11	<1.5	
2/21/2017								1.4	
2/22/2017			43						
2/24/2017		120							
2/27/2017	84								
3/1/2017									
3/2/2017					4.6	7.4			4.4
3/3/2017							8.8		
3/8/2017				7					
4/26/2017				7				1.4	5.1
4/27/2017					5.2	7.4			
4/28/2017							10		
5/8/2017		120	60						
5/9/2017	91								
5/26/2017							12		
6/27/2017					5.9	6.4			
6/28/2017							11		5.4
6/30/2017				6.5				<1.5	
7/11/2017		110							
7/13/2017	88								
7/17/2017			63						
10/3/2017					6.6	5.9	7.9		
10/4/2017								1.4	6.2
10/5/2017				7.9					
10/10/2017		93							
10/11/2017	86								
10/16/2017			62						
2/19/2018			64.6						
4/2/2018		88.8							
4/4/2018	76.5								
6/5/2018					6.4				
6/6/2018						4.4			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/7/2018							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								

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/1/2016	12
6/2/2016	
7/25/2016	8.4
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	8.6
9/15/2016	
9/19/2016	
11/1/2016	8.9
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	8.6
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	9.3
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	11
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	12
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/3/2017	
10/4/2017	12
10/5/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/7/2018	
6/8/2018	9.6
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	9.1
10/2/2018	
2/25/2019	
3/27/2019	
3/28/2019	
3/29/2019	
4/1/2019	8.5
6/12/2019	
9/24/2019	
9/25/2019	13.8
9/26/2019	
10/8/2019	
3/17/2020	
3/18/2020	
3/19/2020	12.9
3/25/2020	
9/22/2020	
9/23/2020	16.8
9/24/2020	
9/25/2020	
3/1/2021	
3/2/2021	
3/3/2021	9.6
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	18.2
9/1/2021	
2/8/2022	
2/9/2022	16
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	13.9
2/7/2023	
2/8/2023	14.7
2/9/2023	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
6/8/2016							<1
8/1/2016							1.1
9/2/2016			72				
9/20/2016							0.38 (J)
11/8/2016							0.39 (J)
11/14/2016			110				
1/17/2017							<1
2/28/2017			110				
3/8/2017							0.29 (J)
5/2/2017							0.29 (J)
5/9/2017			130				
7/7/2017							0.37 (J)
7/13/2017			140				
9/22/2017			160				
9/29/2017			160				
10/5/2017							<1
10/6/2017			160				
10/11/2017			150				
10/12/2017		650					
11/21/2017		700					
1/11/2018		590					
2/20/2018		677					
4/3/2018		615					
6/12/2018							0.35 (J)
6/13/2018			144				
6/29/2018		634					
8/6/2018		623					
9/24/2018		674					
9/26/2018			160				0.28 (J)
10/16/2018	34.2						
4/4/2019			119				0.29 (J)
9/26/2019	14.3		84.8				0.23 (J)
3/25/2020	36.1		58.8				
3/26/2020							<1
9/23/2020							<1
9/24/2020	7.2						
9/25/2020		563					
10/7/2020			18.2				
3/3/2021							<1
3/4/2021	8.8	485	6.3				
8/25/2021		472					
9/1/2021	38.7						<1
9/3/2021			13.8	153			
2/10/2022	42.6	452				306	<1
2/11/2022			16.4	115	209		
8/31/2022	67.9						
9/1/2022		490	28.2	381	280	346	
2/8/2023		449		177	279		
2/9/2023	84.6		50.8			370	
2/10/2023							0.5 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.001	<0.001	
6/7/2016						<0.001			<0.001
7/27/2016						<0.001	<0.001	<0.001	<0.001
7/28/2016									
9/16/2016						<0.001		<0.001	
9/19/2016							<0.001		<0.001
11/2/2016									<0.001
11/3/2016						<0.001	<0.001	<0.001	
1/11/2017						<0.001	<0.001	<0.001	
1/13/2017									<0.001
3/1/2017							<0.001	<0.001	
3/2/2017						<0.001			
3/6/2017									<0.001
4/26/2017							<0.001	<0.001	<0.001
5/2/2017						<0.001			
6/28/2017							<0.001	<0.001	
6/29/2017						<0.001			<0.001
3/28/2018						<0.001	<0.001	<0.001	
3/29/2018									<0.001
9/25/2018									
3/5/2019						<0.001		<0.001	<0.001
3/6/2019							<0.001		
4/2/2019						<0.001			
4/3/2019							<0.001	<0.001	<0.001
9/24/2019									
9/25/2019						<0.001			<0.001
9/26/2019	<0.001						<0.001	<0.001	
2/11/2020						<0.001	<0.001	<0.001	
2/12/2020									<0.001
3/24/2020						<0.001	<0.001	<0.001	<0.001
3/25/2020	<0.001								
9/23/2020		<0.001		<0.001		<0.001	<0.001	<0.001	
9/24/2020	<0.001				<0.001				<0.001
2/9/2021	<0.001	<0.001		<0.001	<0.001		<0.001	<0.001	<0.001
2/9/2022						<0.001	<0.001	<0.001	<0.001
2/10/2022	<0.001	<0.001	<0.001	<0.001	<0.001				
8/30/2022						<0.001	<0.001	<0.001	
8/31/2022	<0.001								<0.001
9/1/2022		<0.001	<0.001	<0.001	<0.001				
2/7/2023						<0.001	<0.001	<0.001	<0.001
2/8/2023		<0.001		<0.001	<0.001				
2/9/2023	<0.001		<0.001						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-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	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-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 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
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				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.001
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.001
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.001
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	<0.001
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.001
10/11/2017	
10/12/2017	<0.001
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.001
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	<0.001
9/24/2018	
3/4/2019	
3/6/2019	
4/3/2019	
4/4/2019	
8/21/2019	<0.001
8/22/2019	
9/24/2019	

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
9/25/2019	
9/27/2019	
2/12/2020	
3/24/2020	
3/25/2020	<0.001
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	<0.001
2/8/2021	
2/9/2021	<0.001
2/10/2021	
2/8/2022	<0.001
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	<0.001
2/7/2023	
2/8/2023	<0.001
2/9/2023	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			<0.001						
9/11/2007			<0.001						
3/20/2008			<0.001						
8/27/2008			<0.001						
3/3/2009			<0.001						
11/18/2009			<0.001						
3/3/2010			<0.001						
9/8/2010			<0.001						
3/10/2011			<0.001						
9/8/2011			<0.001						
3/5/2012			<0.001						
9/10/2012			<0.001						
2/6/2013			<0.001						
8/12/2013			<0.001						
2/5/2014			<0.001						
8/5/2014			<0.001						
2/4/2015			<0.001						
2/16/2016			<0.001						
6/1/2016					<0.001	<0.001			
6/2/2016				<0.001				<0.001	<0.001
7/25/2016						<0.001		<0.001	
7/26/2016				<0.001	<0.001				0.0001 (J)
8/30/2016		<0.001							
8/31/2016			<0.001						
9/1/2016	<0.001								
9/13/2016					<0.001	<0.001			
9/14/2016							<0.001		
9/15/2016				<0.001					<0.001
9/19/2016								<0.001	
11/1/2016					<0.001			<0.001	<0.001
11/2/2016				<0.001					
11/4/2016						<0.001	<0.001		
11/14/2016		<0.001							
11/15/2016	<0.001								
11/28/2016			<0.001						
12/15/2016							<0.001		
1/10/2017				<0.001					
1/11/2017					<0.001				<0.001
1/16/2017						<0.001	<0.001	<0.001	
2/21/2017								<0.001	
2/22/2017			<0.001						
2/24/2017		<0.001							
2/27/2017	9E-05 (J)								
3/1/2017									
3/2/2017					<0.001	<0.001			<0.001
3/3/2017							<0.001		
3/8/2017				<0.001					
4/26/2017				<0.001				<0.001	<0.001
4/27/2017					<0.001	<0.001			
4/28/2017							<0.001		
5/8/2017		<0.001	6E-05 (J)						
5/9/2017	<0.001								

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/26/2017							<0.001		
6/27/2017					<0.001	<0.001			
6/28/2017							<0.001		<0.001
6/30/2017				<0.001				<0.001	
7/11/2017		<0.001							
7/13/2017	<0.001								
7/17/2017			6E-05 (J)						
10/10/2017		<0.001							
10/11/2017	<0.001								
10/16/2017			7E-05 (J)						
2/19/2018			<0.001						
3/27/2018				<0.001		<0.001		<0.001	
3/28/2018							<0.001		<0.001
3/29/2018					<0.001				
4/2/2018		<0.001							
4/4/2018	<0.001								
8/6/2018			<0.001						
9/19/2018		<0.001							
9/20/2018	<0.001								
2/25/2019			<0.001						
2/26/2019				<0.001				<0.001	
2/27/2019					<0.001	<0.001	<0.001		<0.001
6/12/2019			<0.001						
8/19/2019			5.5E-05 (J)						
8/20/2019		5.8E-05 (J)							
9/26/2019	<0.001								
10/8/2019		8.4E-05 (J)	<0.001						
2/10/2020					<0.001	5.5E-05 (J)			
2/11/2020							<0.001		
2/12/2020				8.9E-05 (J)				<0.001	<0.001
3/17/2020		<0.001	<0.001						
3/18/2020				<0.001		<0.001			
3/19/2020					<0.001		<0.001	<0.001	<0.001
3/25/2020	<0.001								
8/26/2020			<0.001						
8/27/2020		<0.001							
9/22/2020			<0.001						
9/23/2020					<0.001	<0.001	<0.001		<0.001
9/24/2020	<0.001							<0.001	
9/25/2020				<0.001					
2/9/2021	<0.001								
2/10/2021				<0.001			<0.001		<0.001
2/11/2021								<0.001	
2/12/2021					<0.001	<0.001			
3/2/2021			<0.001						
8/19/2021		<0.001							
8/20/2021			<0.001						
2/8/2022	<0.001	<0.001	<0.001						
2/9/2022					<0.001	<0.001	<0.001		<0.001
2/10/2022				<0.001					
2/11/2022								<0.001	
8/30/2022			<0.001		<0.001		<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
8/31/2022	<0.001	<0.001		<0.001		<0.001		<0.001	<0.001
2/7/2023			<0.001		<0.001	<0.001	<0.001		
2/8/2023		<0.001		<0.001				<0.001	<0.001
2/9/2023	<0.001								

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
2/16/2016	
6/1/2016	<0.001
6/2/2016	
7/25/2016	<0.001
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.001
9/15/2016	
9/19/2016	
11/1/2016	<0.001
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.001
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.001
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.001
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/26/2017	
6/27/2017	
6/28/2017	<0.001
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.001
3/29/2018	
4/2/2018	
4/4/2018	
8/6/2018	
9/19/2018	
9/20/2018	
2/25/2019	
2/26/2019	
2/27/2019	<0.001
6/12/2019	
8/19/2019	
8/20/2019	
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	<0.001
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.001
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	0.00016 (J)
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	<0.001
2/11/2021	
2/12/2021	
3/2/2021	
8/19/2021	
8/20/2021	
2/8/2022	
2/9/2022	<0.001
2/10/2022	
2/11/2022	
8/30/2022	

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
8/31/2022	<0.001
2/7/2023	
2/8/2023	<0.001
2/9/2023	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
6/8/2016							<0.001
8/1/2016							<0.001
9/2/2016			<0.001				
9/20/2016							<0.001
11/8/2016							<0.001
11/14/2016			<0.001				
1/17/2017							<0.001
2/28/2017			<0.001				
3/8/2017							<0.001
5/2/2017							<0.001
5/9/2017			<0.001				
7/7/2017							<0.001
7/13/2017			<0.001				
9/22/2017			<0.001				
9/29/2017			<0.001				
10/6/2017			<0.001				
10/12/2017		<0.001					
11/21/2017		<0.001					
1/11/2018		<0.001					
2/20/2018		<0.001					
3/30/2018			<0.001				<0.001
4/3/2018		<0.001					
6/29/2018		<0.001					
8/6/2018		<0.001					
9/24/2018		<0.001					
3/5/2019							<0.001
3/6/2019			<0.001				
4/4/2019			<0.001				<0.001
9/26/2019	<0.001		<0.001				<0.001
3/25/2020	<0.001		<0.001				
3/26/2020							<0.001
9/23/2020							<0.001
9/24/2020	<0.001						
9/25/2020		<0.001					
10/7/2020			<0.001				
2/9/2021		<0.001					<0.001
2/10/2021	<0.001		<0.001				
2/10/2022	<0.001	<0.001				<0.001	<0.001
2/11/2022			<0.001	<0.001	<0.001		
8/31/2022	<0.001						
9/1/2022		<0.001	<0.001	<0.001	<0.001	<0.001	
2/8/2023		<0.001		<0.001	<0.001		
2/9/2023	<0.001		<0.001			<0.001	
2/10/2023							<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							120	58	
6/7/2016						28			38
7/27/2016						74	94	35	74
7/28/2016									
9/16/2016						67		35	
9/19/2016							92		45
11/2/2016									53
11/3/2016						41	104	48	
1/11/2017						104	133	95	
1/13/2017									46
3/1/2017							119	79	
3/2/2017						77			
3/6/2017									164
4/26/2017							162	36	34
5/2/2017						142			
6/28/2017							98	45	
6/29/2017						53			68
10/3/2017									
10/4/2017						61		45	54
10/5/2017							104		
6/5/2018									
6/6/2018									79
6/7/2018							68		
6/11/2018						70		74	
9/25/2018						86	109	63	73
10/16/2018	209								
4/2/2019						72			
4/3/2019							89	63	57
9/24/2019									
9/25/2019						81			75
9/26/2019							126	72	
3/24/2020						71	91	59	76
3/25/2020	139								
9/23/2020		62		329		99	103	81	
9/24/2020	106				788				69
3/3/2021	121	40		245		57	95	37	53
3/4/2021					604				
8/25/2021				332					
8/26/2021					570			31	
8/27/2021						93	112		67
9/1/2021	219	60							
2/9/2022						81	103	60	72
2/10/2022	281	48	606	346	499				
8/30/2022						81	100	52	
8/31/2022	336								62
9/1/2022		52	632	358	662				
2/7/2023						78	96	55	89
2/8/2023		190		402	660				
2/9/2023	347		727						

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-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	

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-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 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/28/2019								372	
4/3/2019			111	142	83				
4/4/2019						85			
9/24/2019				129	79				
9/25/2019			117						
9/27/2019						96			
10/9/2019	119	98					1100	440	1170
3/24/2020		84		139	68				
3/25/2020	158		146				883	428	1200
3/26/2020						110			
9/22/2020			83	104	75				
9/24/2020	170	77				129			1060
9/25/2020							664	307	
3/2/2021				52	67				
3/3/2021			80						
3/4/2021	168	57				96	600	224	501
8/25/2021						141			886
8/26/2021	249		93	123	86		562	225	
9/3/2021		88							
9/27/2021									
2/8/2022	248	93						226	
2/10/2022				127	77	180	541		882
2/11/2022			102						
8/30/2022				148	86				
8/31/2022	242	92	92						
9/1/2022						191	499	205	934
2/7/2023	224			180					
2/8/2023		115				158	579	257	853
2/9/2023			124		59				

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	80
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	112
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	147
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	203
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	238
10/3/2017	
10/5/2017	
10/11/2017	
10/12/2017	287
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
4/3/2018	
4/4/2018	292
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	434
9/24/2018	
9/26/2018	
9/27/2018	
3/26/2019	
3/27/2019	

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
3/28/2019	323
4/3/2019	
4/4/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	501
3/24/2020	
3/25/2020	352
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	494
3/2/2021	
3/3/2021	
3/4/2021	592
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	158
2/8/2022	294
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	366
2/7/2023	
2/8/2023	333
2/9/2023	

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016					120	54			
6/2/2016				46				36	130
7/25/2016						48		50	
7/26/2016				54	94				141
8/30/2016		319							
8/31/2016			209						
9/1/2016	228								
9/13/2016					105	67			
9/14/2016							152		
9/15/2016				54					153
9/19/2016								35	
11/1/2016					44			<25	92
11/2/2016				71					
11/4/2016						60	148		
11/14/2016		280							
11/15/2016	211								
11/28/2016			102						
12/15/2016							191		
1/10/2017				45					
1/11/2017					107				159
1/16/2017						65	180	47	
2/21/2017								<25	
2/22/2017			164						
2/24/2017		162							
2/27/2017	382								
3/1/2017									
3/2/2017					98	61			117
3/3/2017							156		
3/8/2017				178					
4/26/2017				52				55	181
4/27/2017					116	31			
4/28/2017							130		
5/8/2017		194	145						
5/9/2017	154								
5/26/2017							223		
6/27/2017					89	42			
6/28/2017							166		169
6/30/2017				45				42	
7/11/2017		193							
7/13/2017	192								
7/17/2017			185						
10/3/2017					119	58	153		
10/4/2017								31	141
10/5/2017				40					
10/10/2017		175							
10/11/2017	177								
10/16/2017			218						
2/19/2018			173						
4/2/2018		192							
4/4/2018	174								
6/5/2018					127				
6/6/2018						96			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/7/2018							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								

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/1/2016	150
6/2/2016	
7/25/2016	135
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	127
9/15/2016	
9/19/2016	
11/1/2016	75
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	148
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	182
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	92
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	126
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/3/2017	
10/4/2017	147
10/5/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/7/2018	
6/8/2018	158
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	138
10/2/2018	
2/25/2019	
3/27/2019	
3/28/2019	
3/29/2019	
4/1/2019	19 (J)
6/12/2019	
9/24/2019	
9/25/2019	159
9/26/2019	
10/8/2019	
3/17/2020	
3/18/2020	
3/19/2020	148
3/25/2020	
9/22/2020	
9/23/2020	155
9/24/2020	
9/25/2020	
3/1/2021	
3/2/2021	
3/3/2021	111
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	155
9/1/2021	
2/8/2022	
2/9/2022	145
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	137
2/7/2023	
2/8/2023	145
2/9/2023	

Time Series

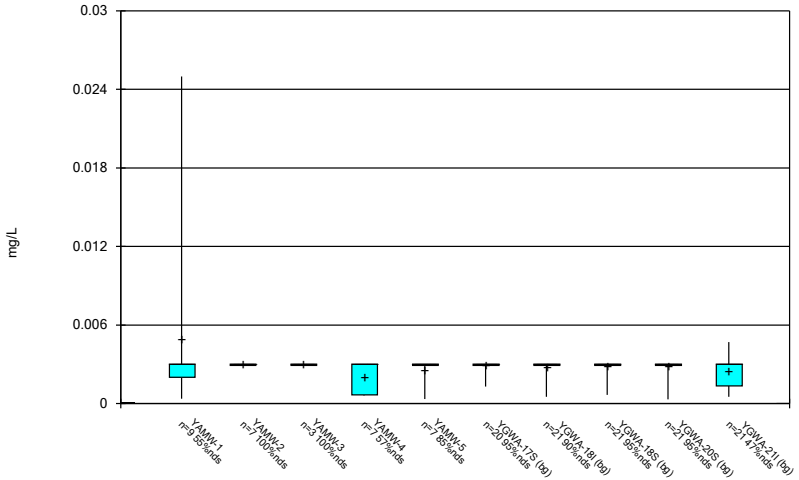
Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
6/8/2016							66
8/1/2016							56
9/2/2016			243				
9/20/2016							53
11/8/2016							58
11/14/2016			272				
1/17/2017							56
2/28/2017			306				
3/8/2017							192
5/2/2017							113
5/9/2017			303				
7/7/2017							46
7/13/2017			282				
9/22/2017			309				
9/29/2017			273				
10/5/2017							48
10/6/2017			287				
10/11/2017			264				
10/12/2017		1060					
11/21/2017		1100					
1/11/2018		1020					
2/20/2018		1050					
4/3/2018		1080					
6/12/2018							79
6/13/2018			292				
6/29/2018		979					
8/6/2018		1020					
9/24/2018		1090					
9/26/2018			277				59
10/16/2018	123						
4/4/2019			240				63
9/26/2019			198				81
3/25/2020	84		164				
3/26/2020							67
9/23/2020							87
9/24/2020	100						
9/25/2020		878					
10/7/2020			137				
3/3/2021							70
3/4/2021	59	856	69				
8/25/2021		876					
9/1/2021	128						96
9/3/2021			89	374			
2/10/2022	130	798				574	78
2/11/2022			81	382	456		
8/31/2022	173						
9/1/2022		908	108	916	544	622	
2/8/2023		822		477	542		
2/9/2023	196		116			582	
2/10/2023							66

FIGURE B.

Box & Whiskers Plot

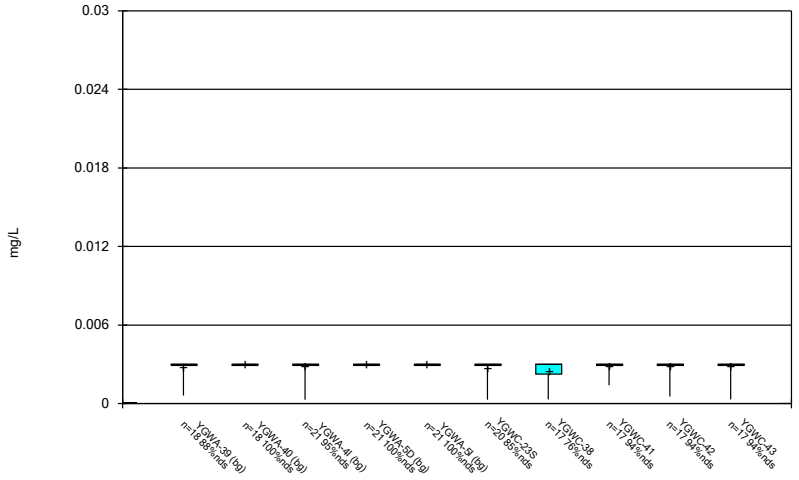


Constituent: Antimony Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

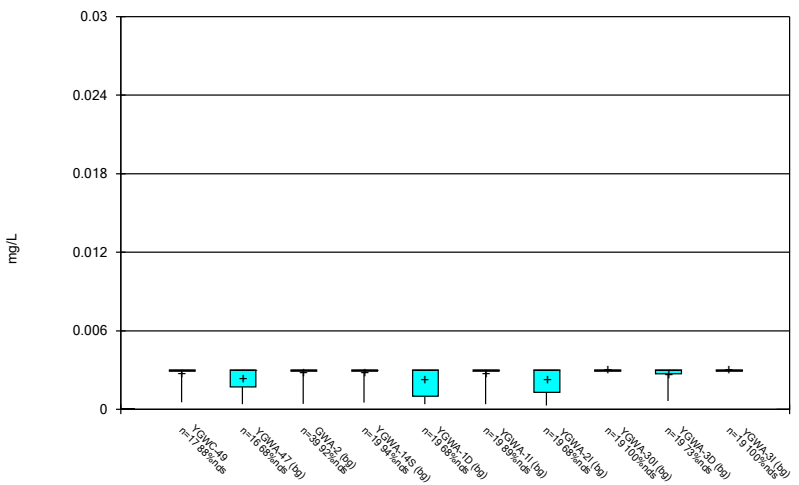


Constituent: Antimony Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

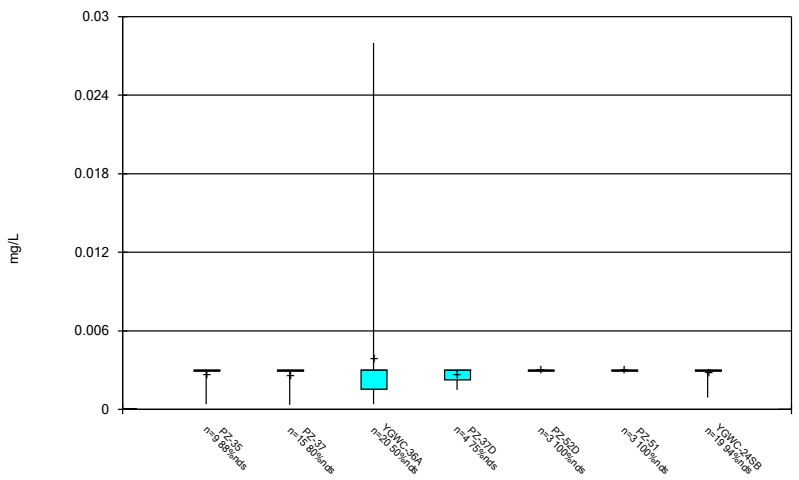


Constituent: Antimony Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

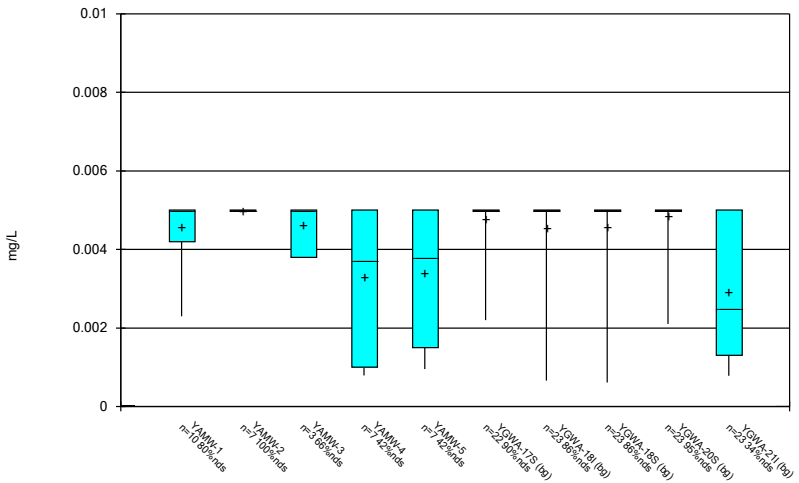
Box & Whiskers Plot



Constituent: Antimony Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

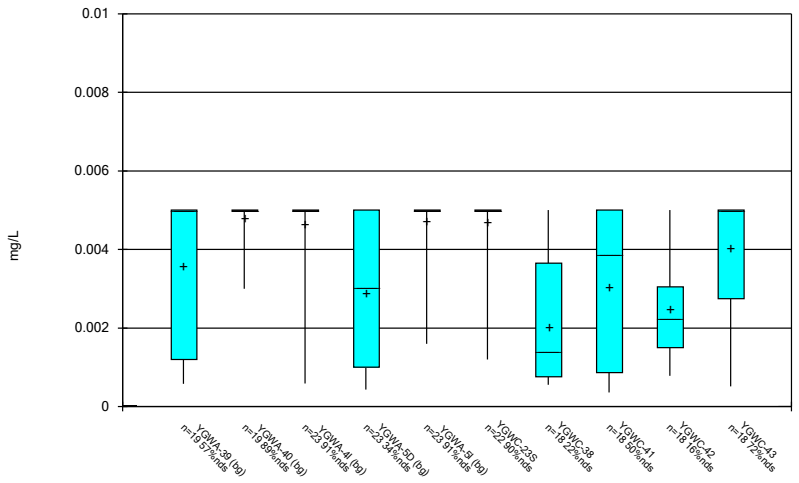


Constituent: Arsenic Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

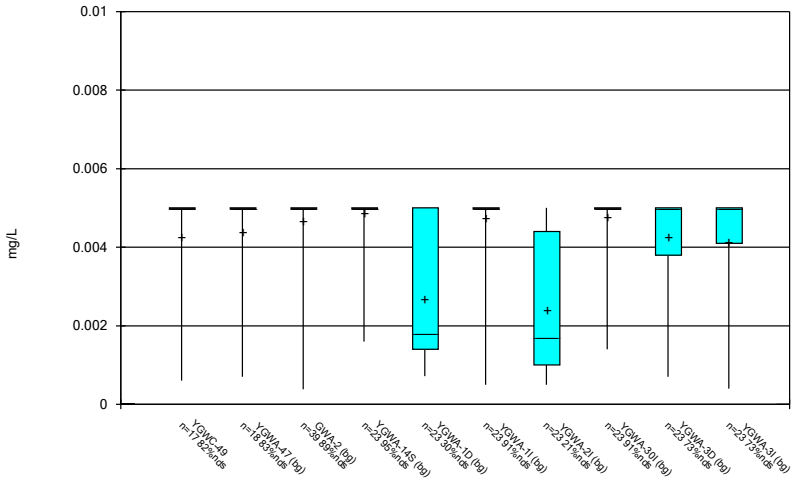


Constituent: Arsenic Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

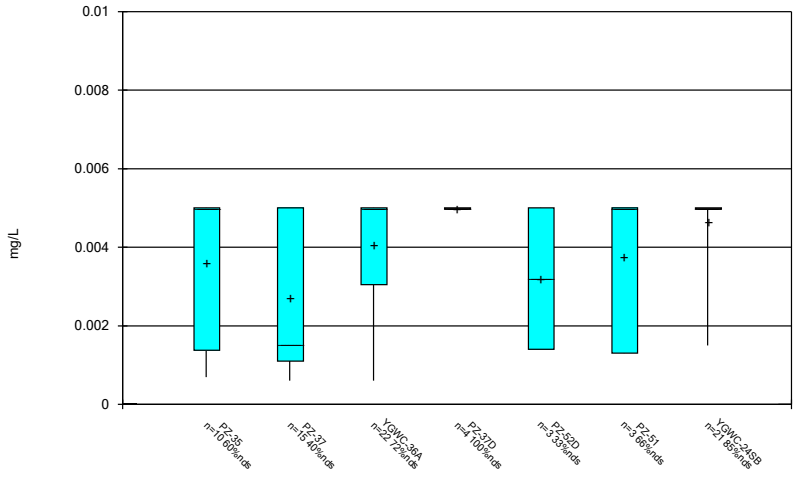


Constituent: Arsenic Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

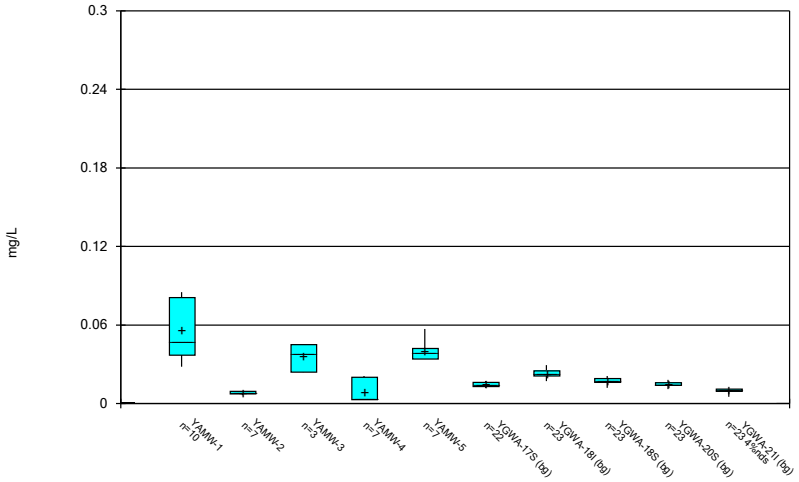
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

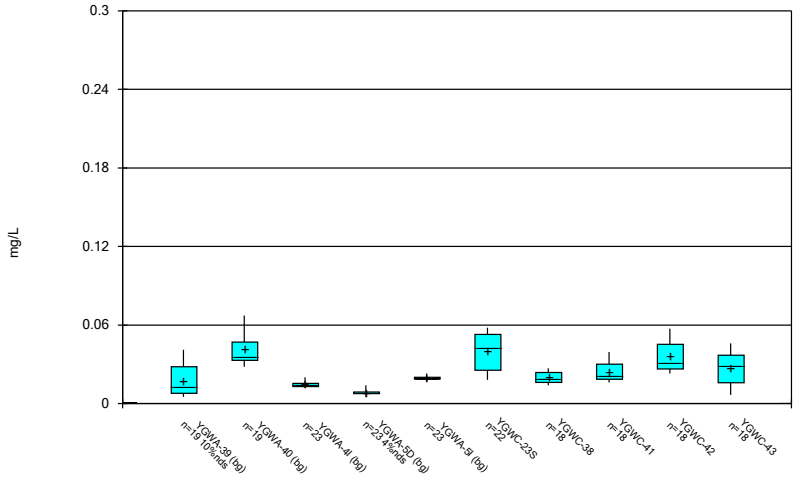


Constituent: Barium Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

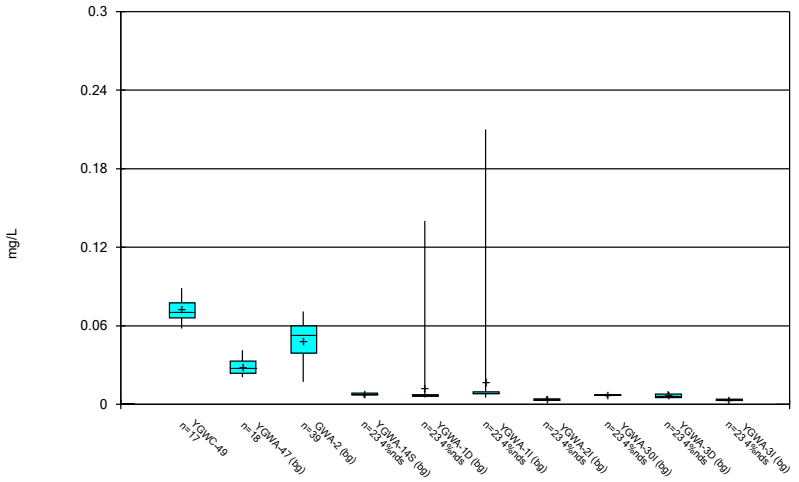


Constituent: Barium Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

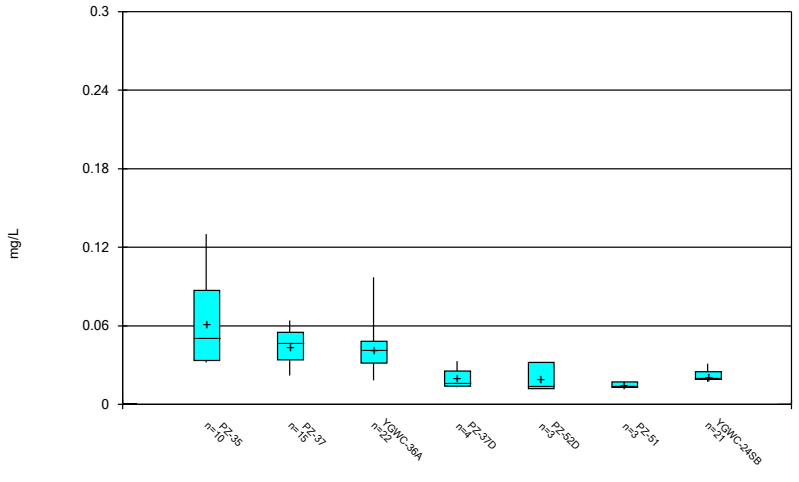


Constituent: Barium Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

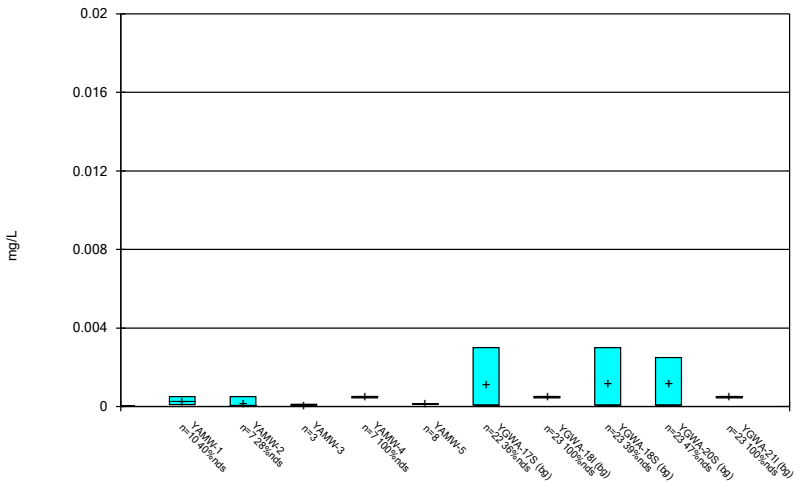
Box & Whiskers Plot



Constituent: Barium Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

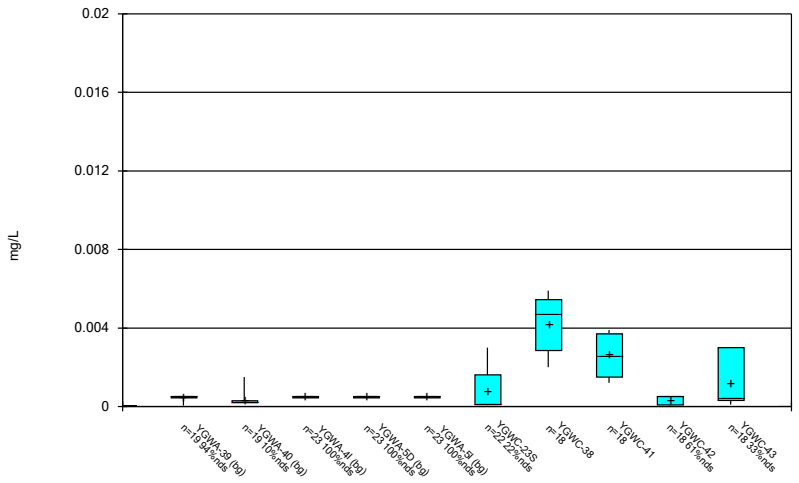


Constituent: Beryllium Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

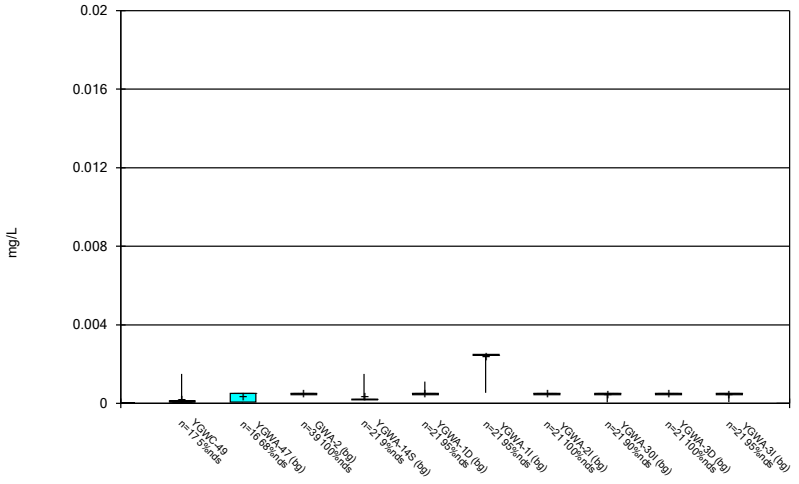


Constituent: Beryllium Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

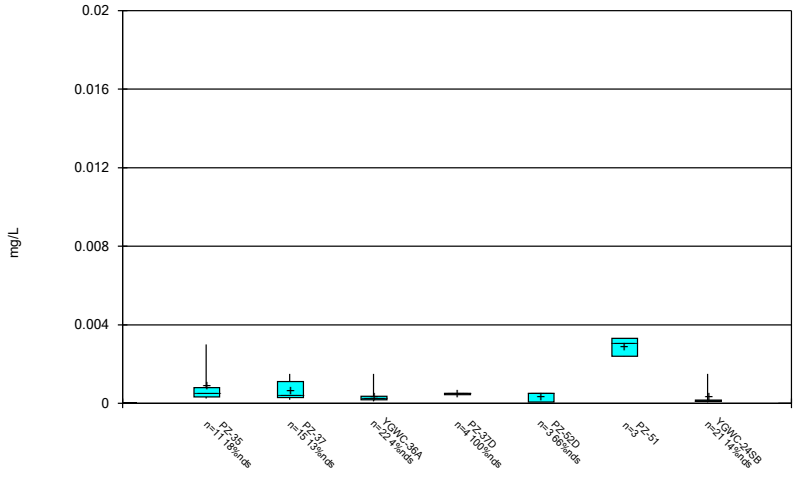


Constituent: Beryllium Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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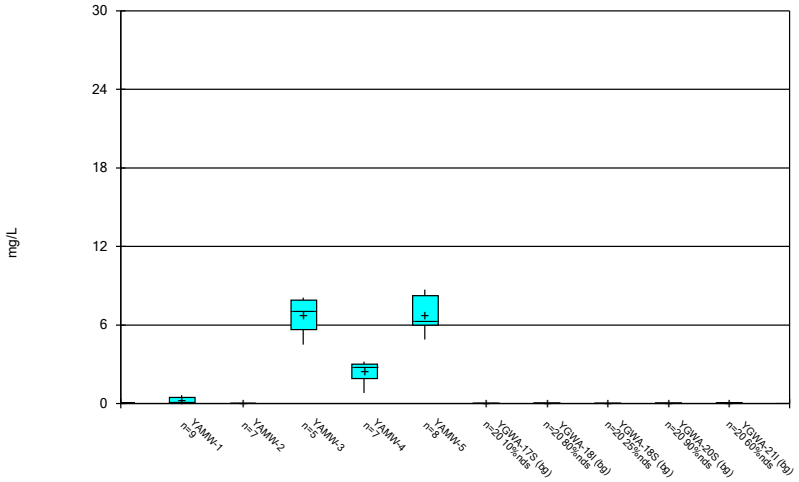
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



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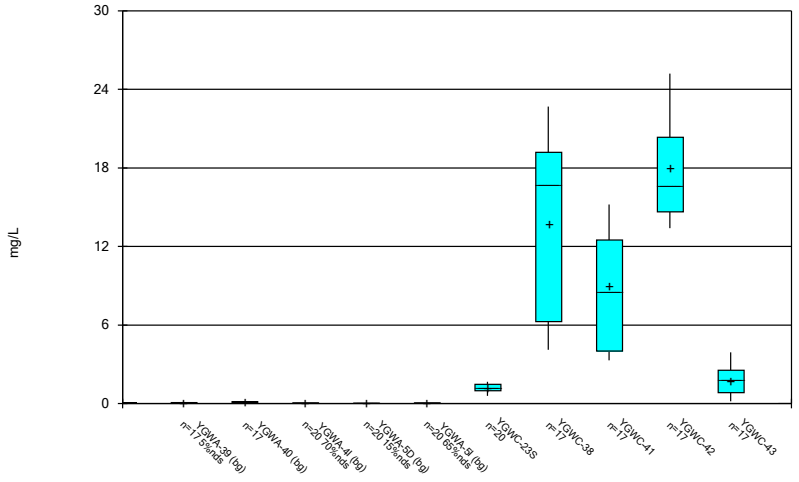
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

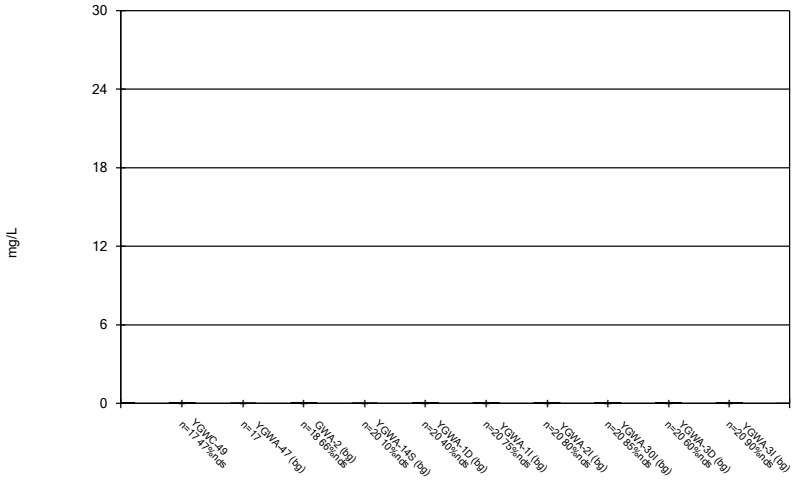


Constituent: Boron Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

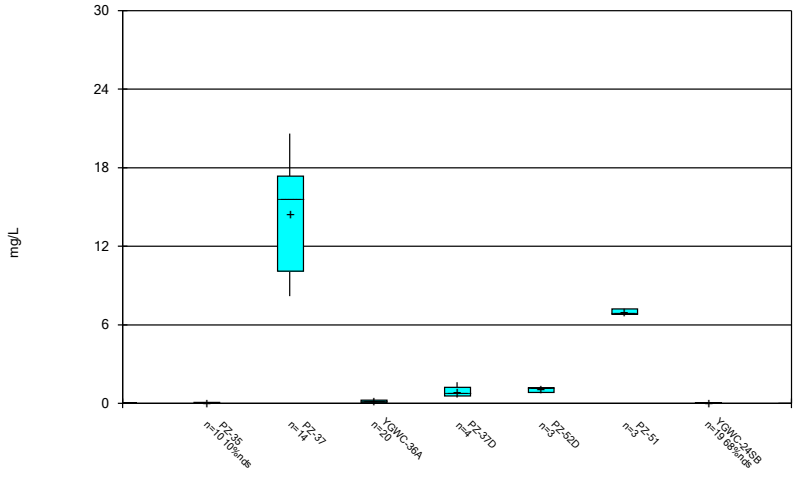


Constituent: Boron Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

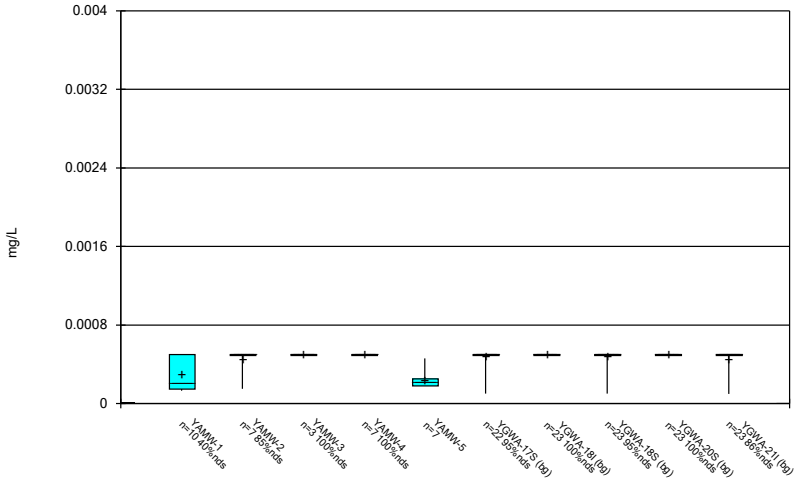
Box & Whiskers Plot



Constituent: Boron Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

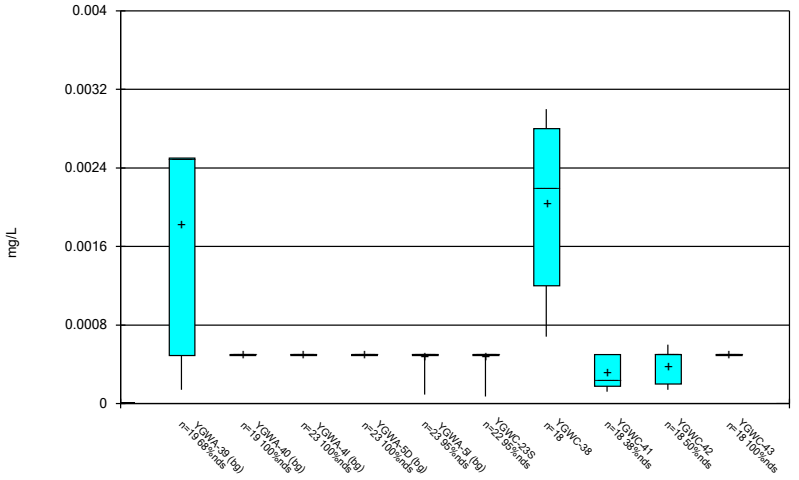


Constituent: Cadmium Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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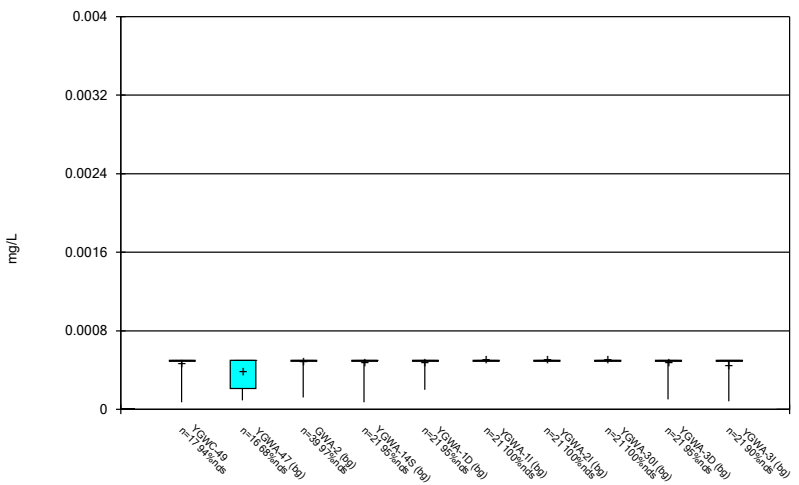
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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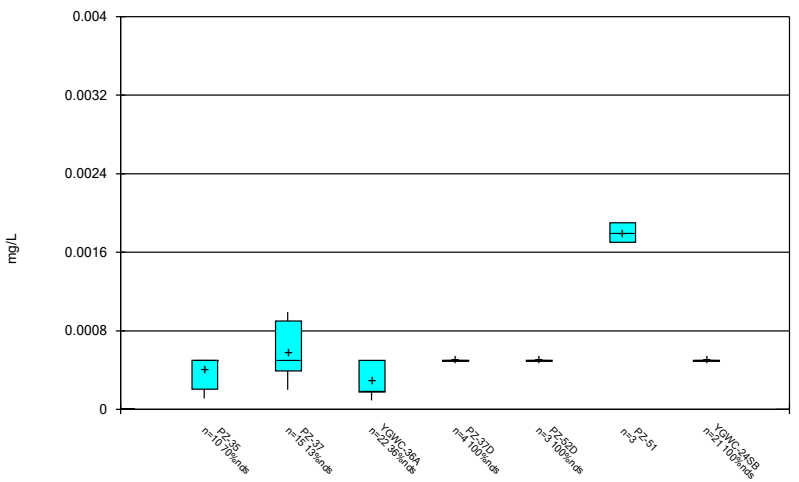
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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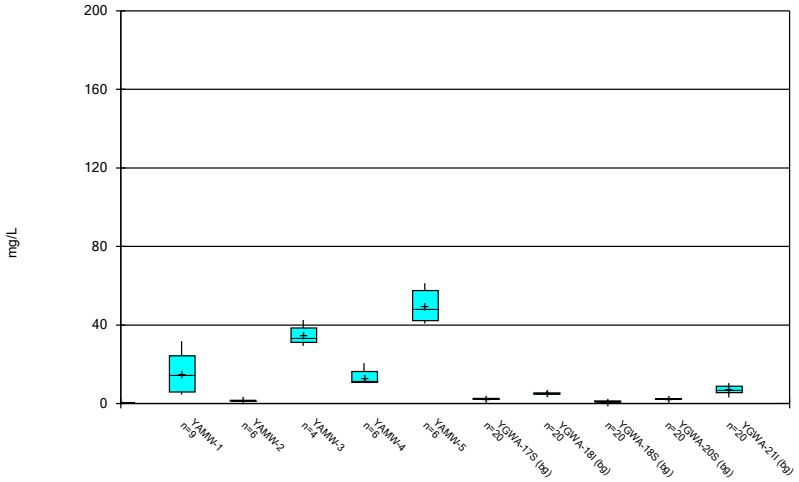
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

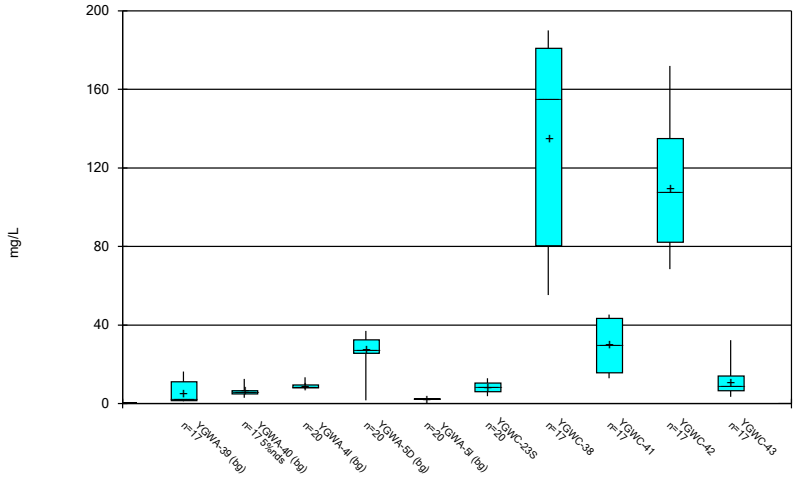


Constituent: Calcium Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

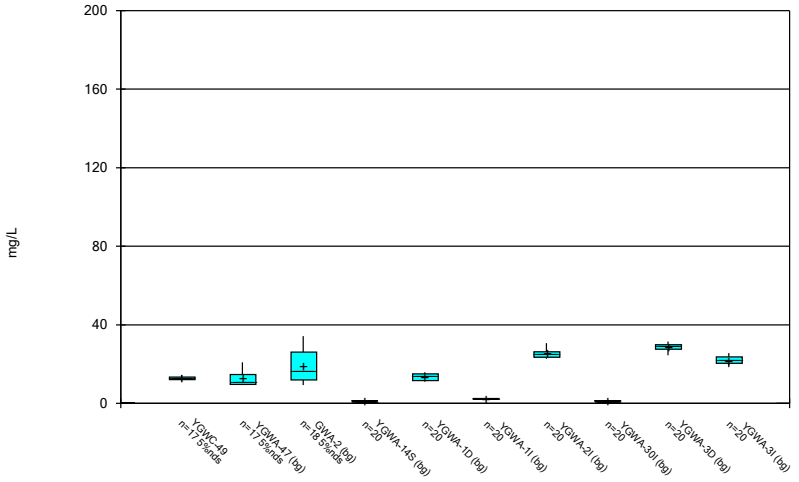


Constituent: Calcium Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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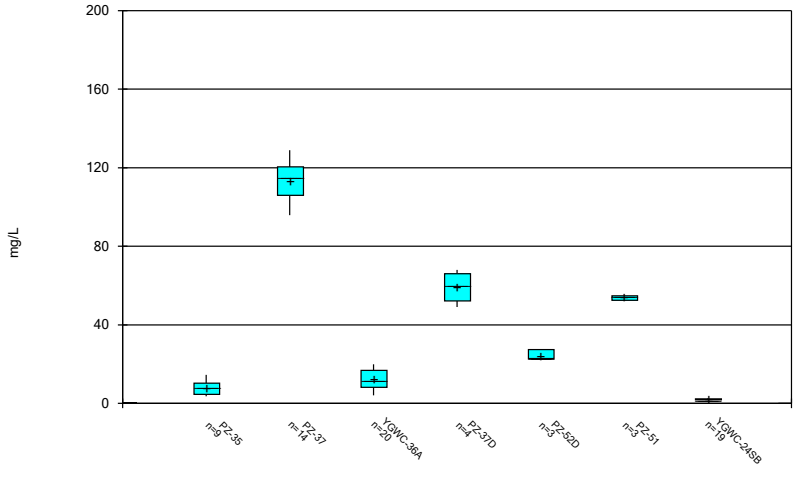
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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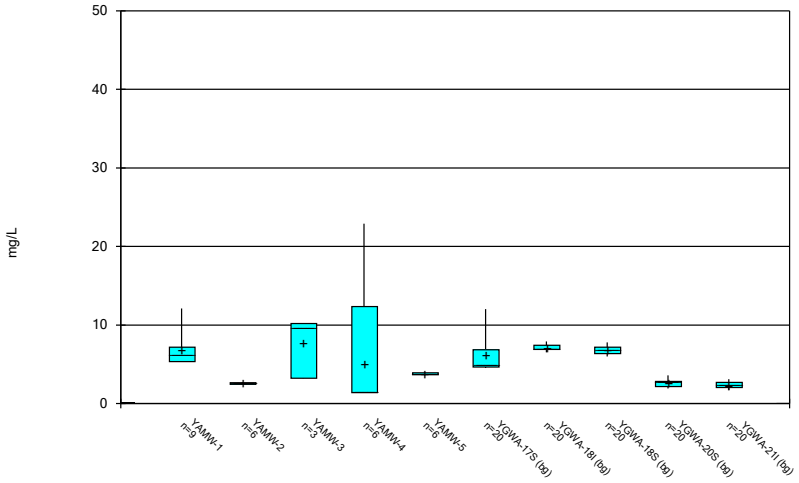
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

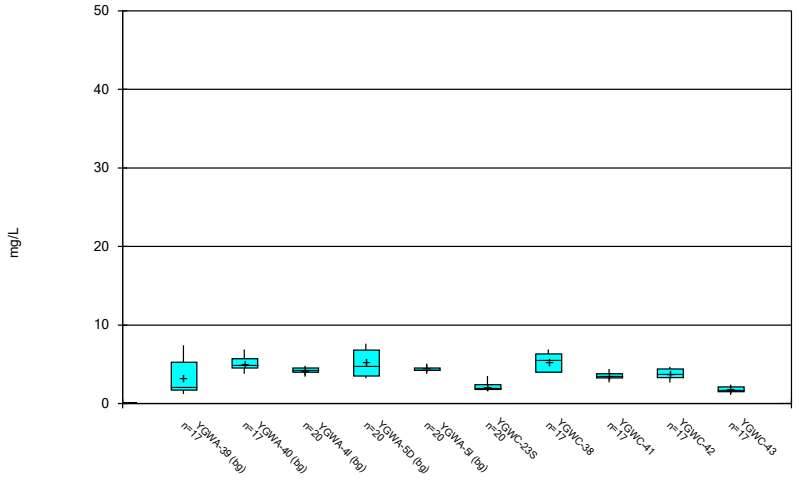


Constituent: Chloride Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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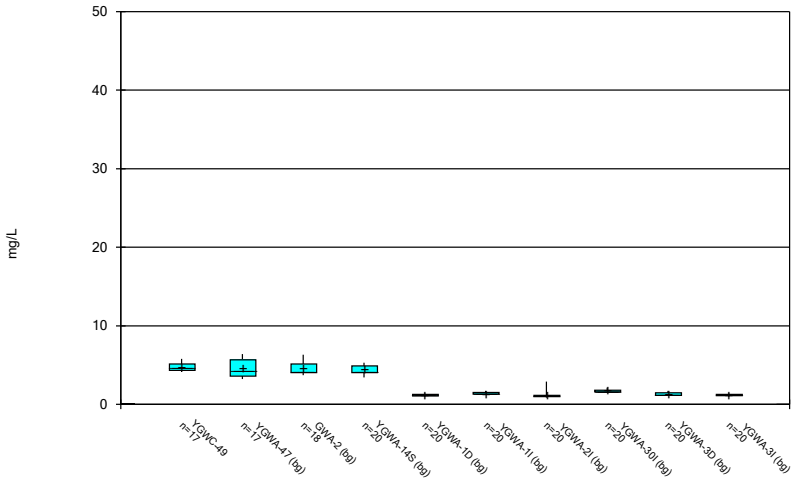
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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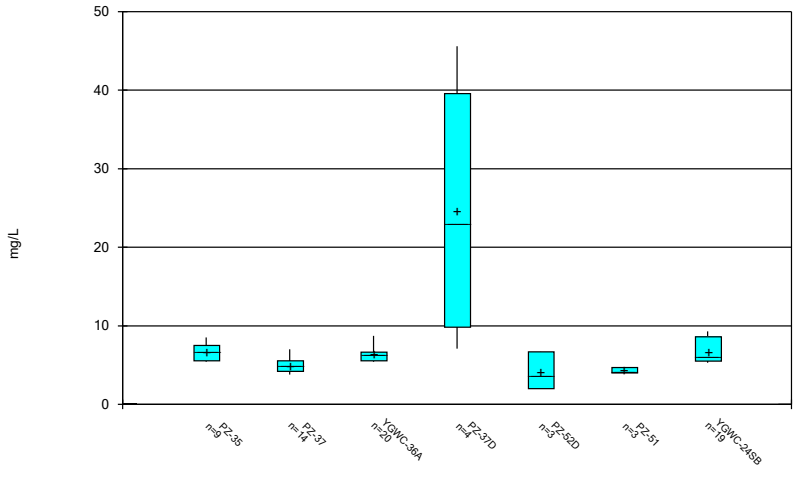
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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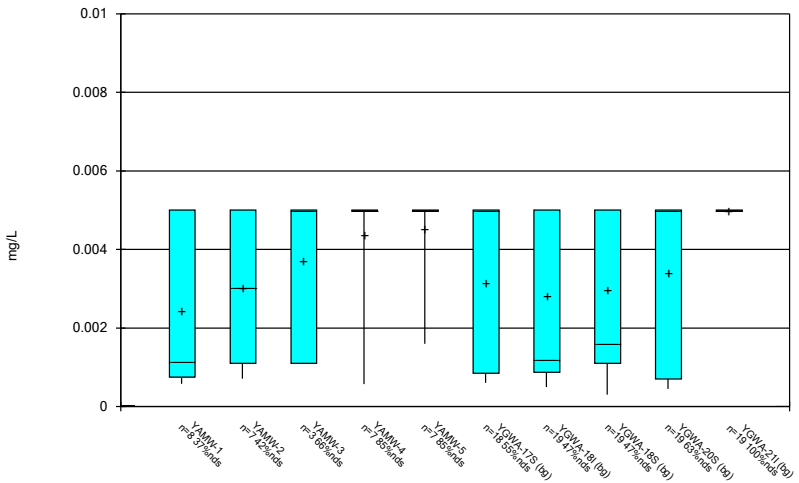
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

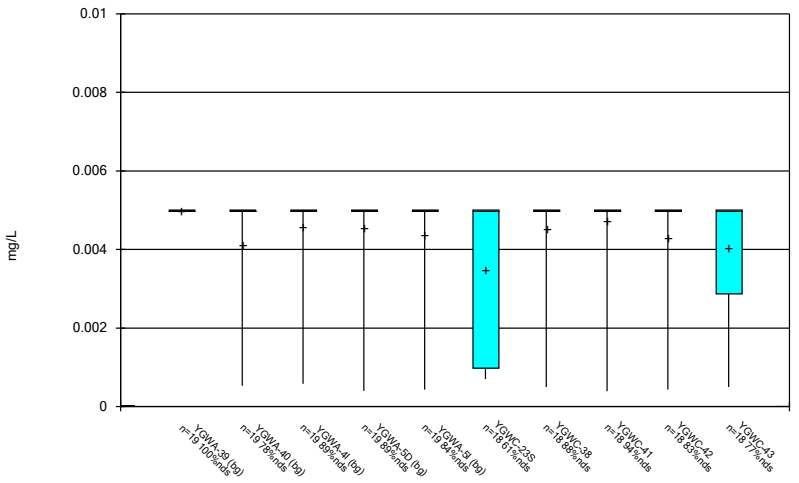


Constituent: Chromium Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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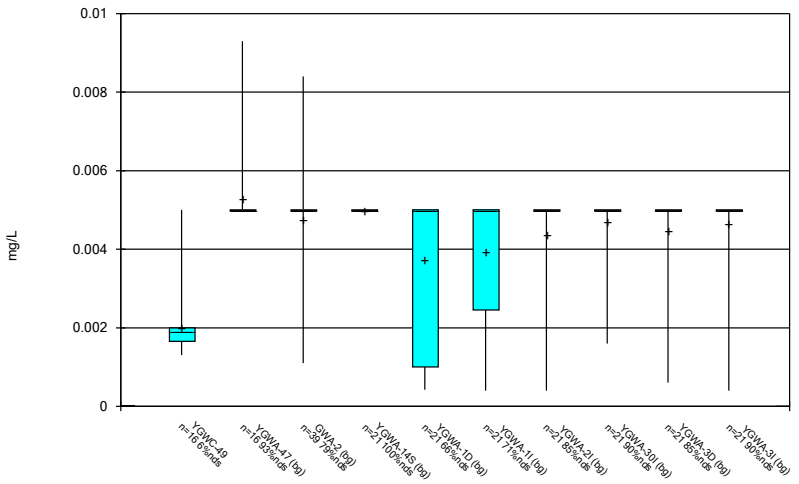
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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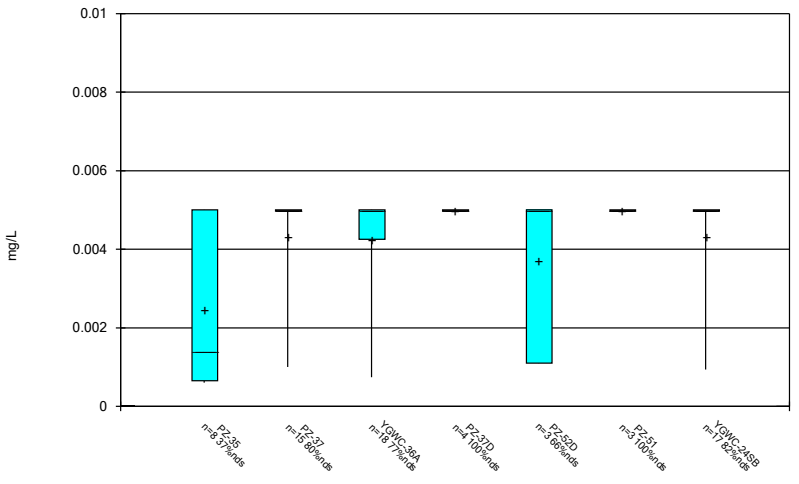
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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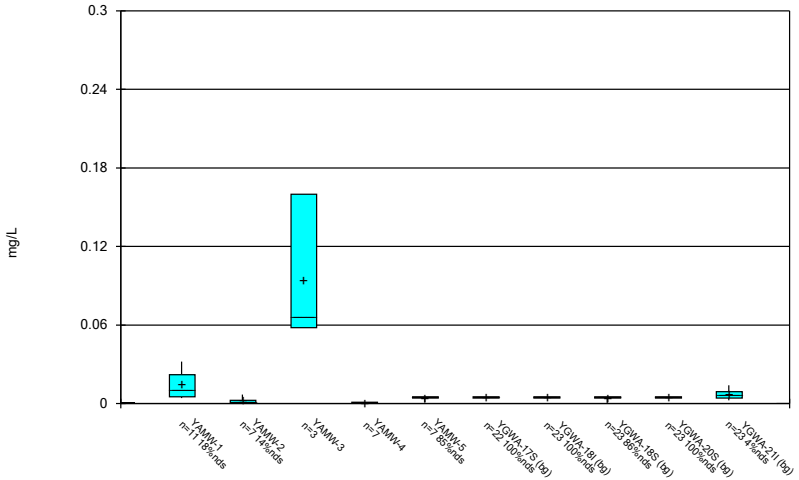
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

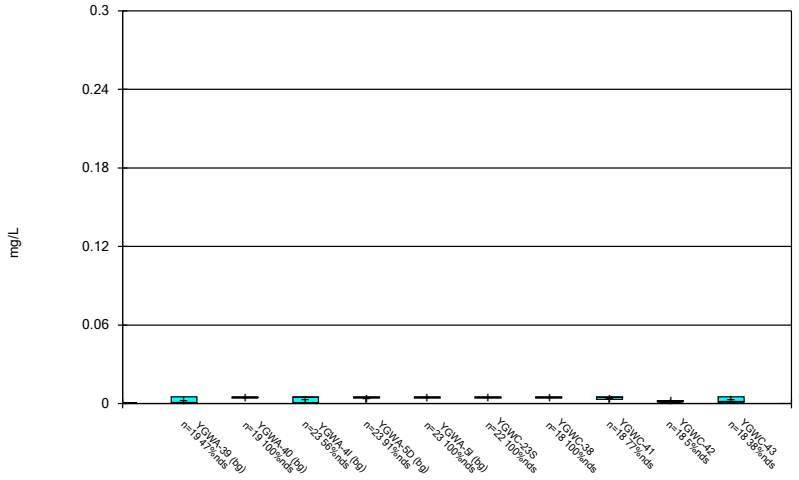


Constituent: Cobalt Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

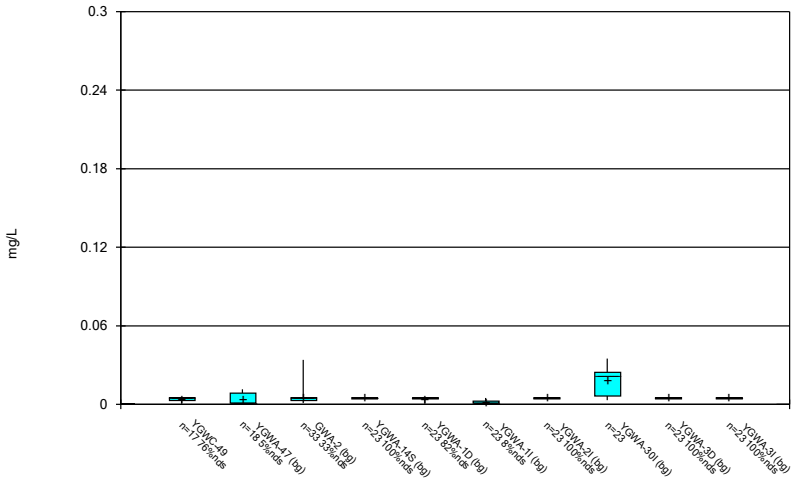


Constituent: Cobalt Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

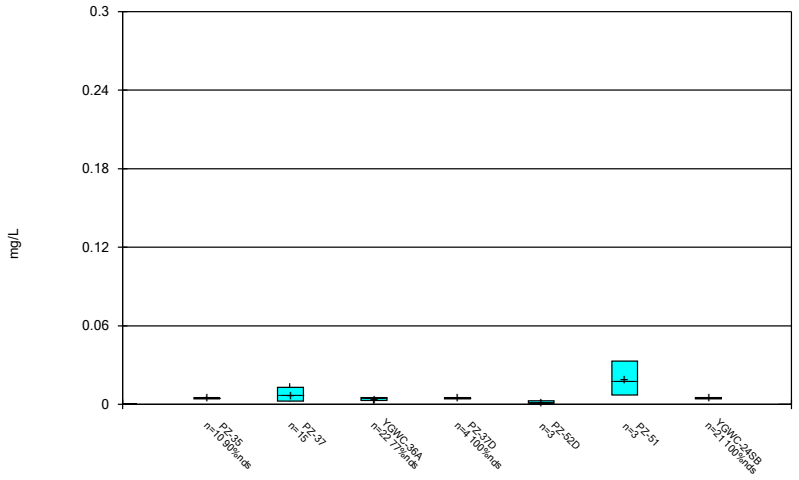


Constituent: Cobalt Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

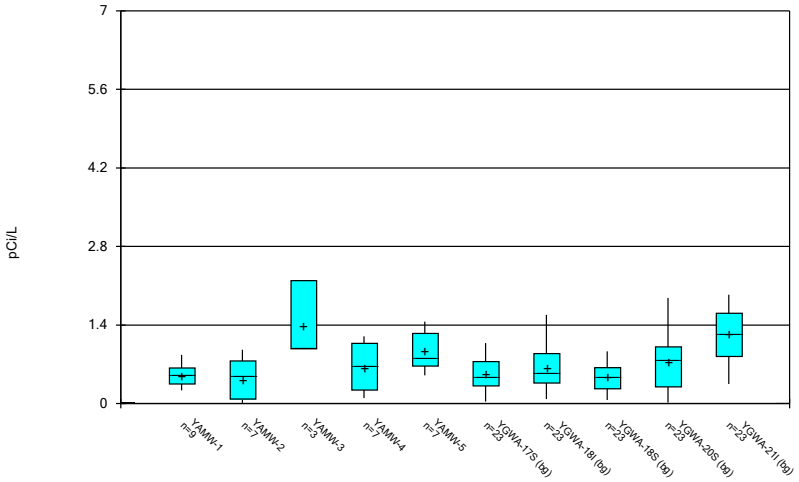
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

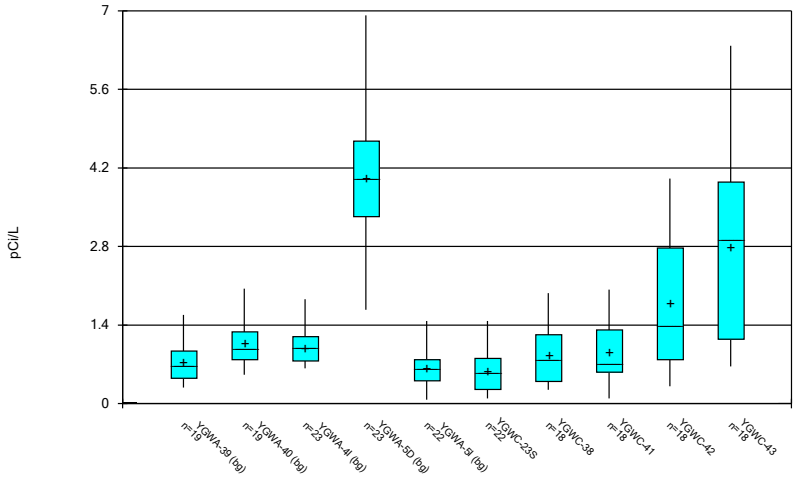


Constituent: Combined Radium 226 + 228 Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

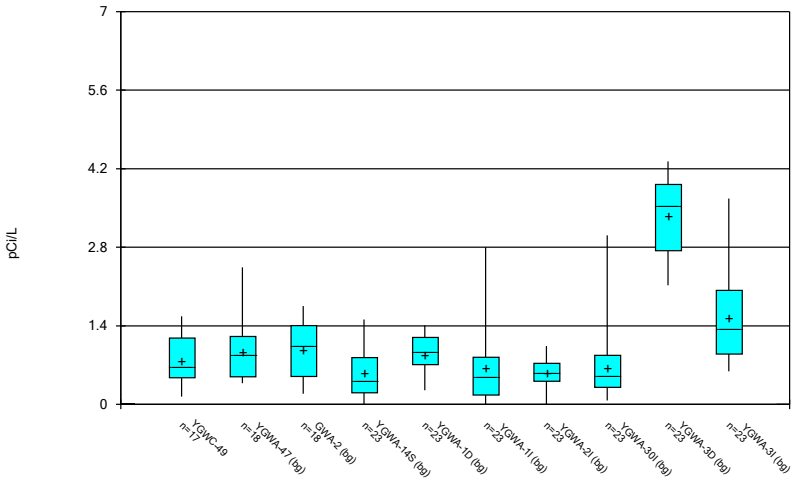


Constituent: Combined Radium 226 + 228 Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

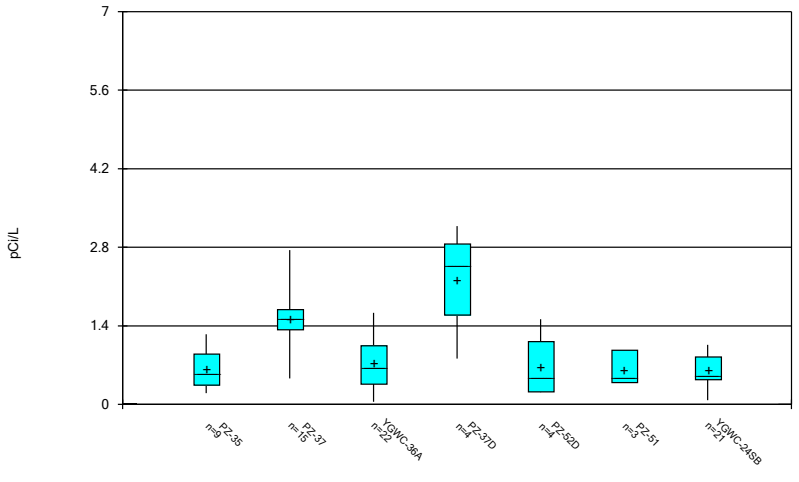


Constituent: Combined Radium 226 + 228 Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

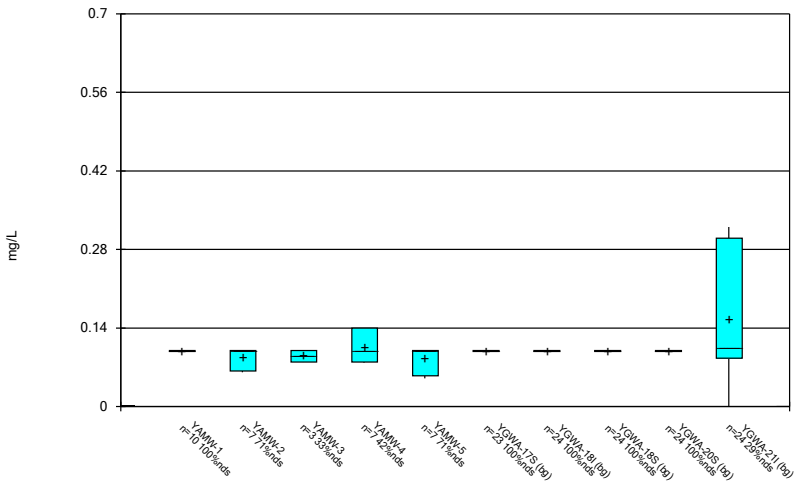
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

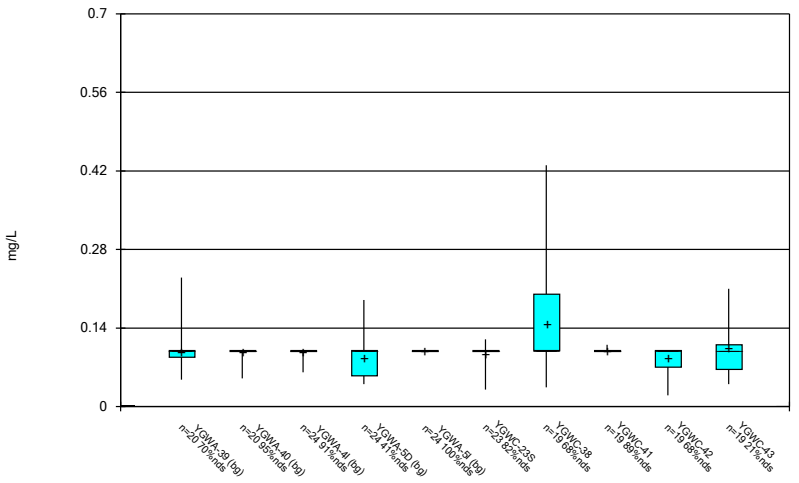


Constituent: Fluoride Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

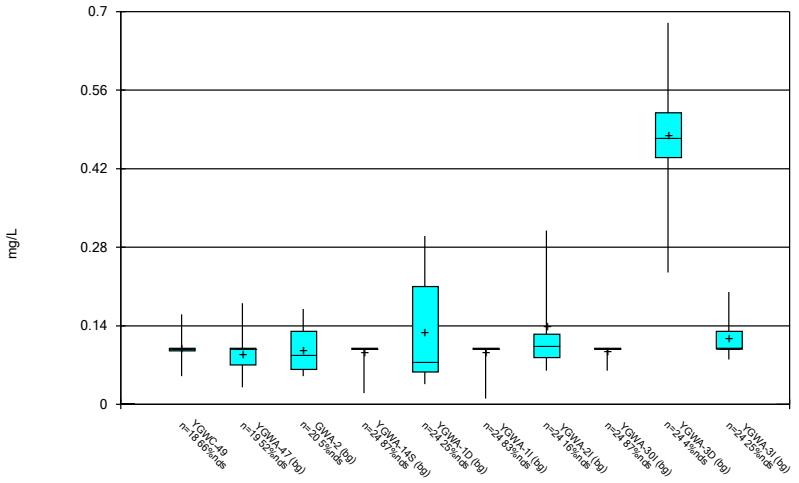


Constituent: Fluoride Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

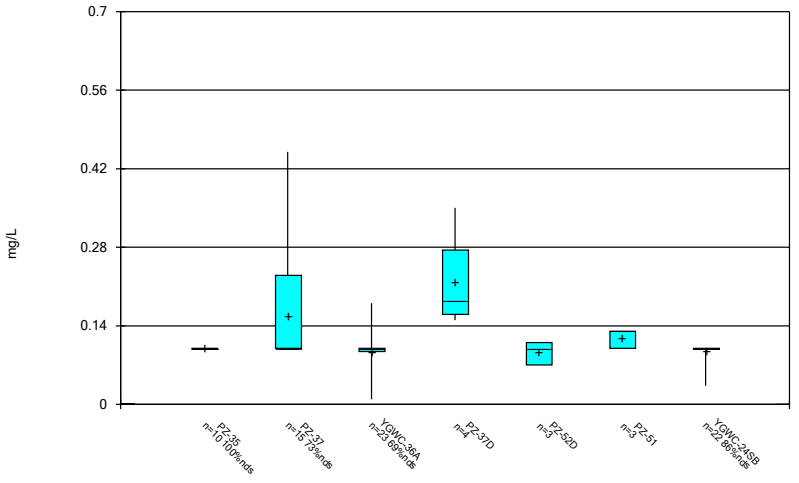


Constituent: Fluoride Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

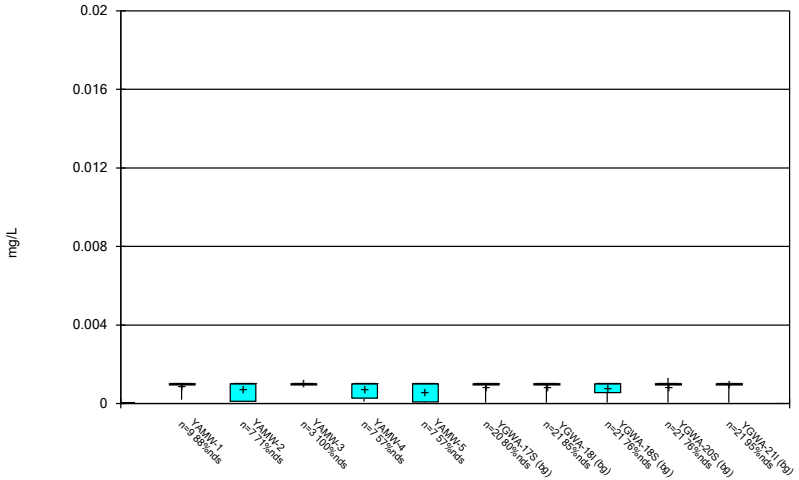
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

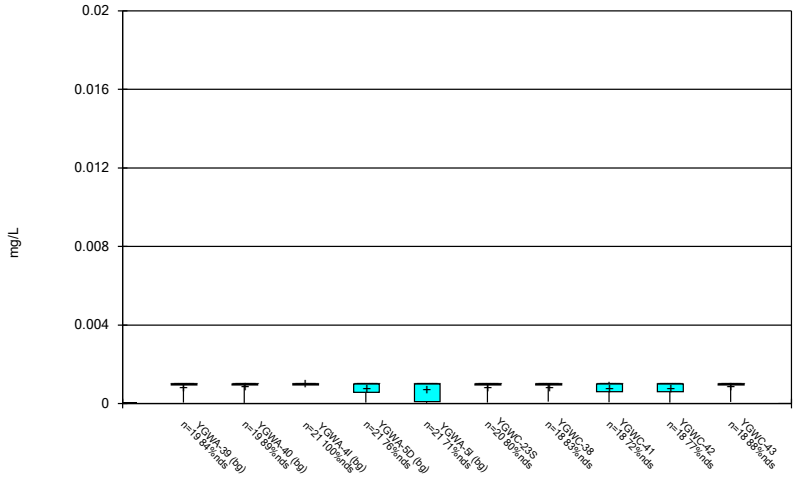


Constituent: Lead Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

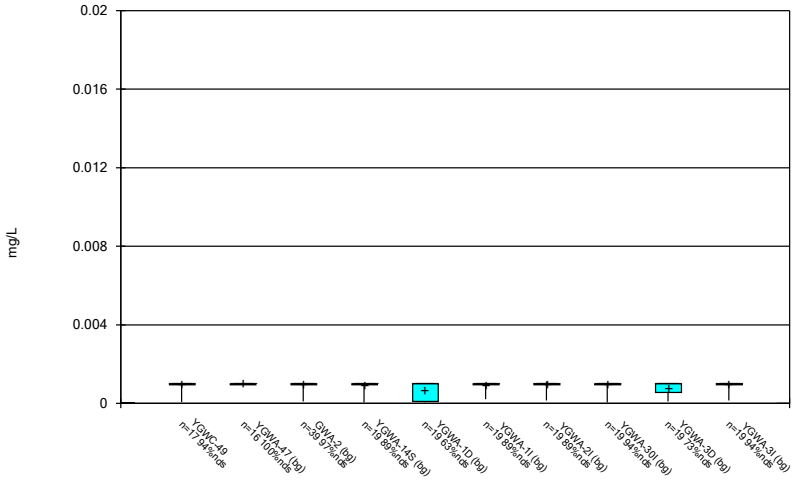


Constituent: Lead Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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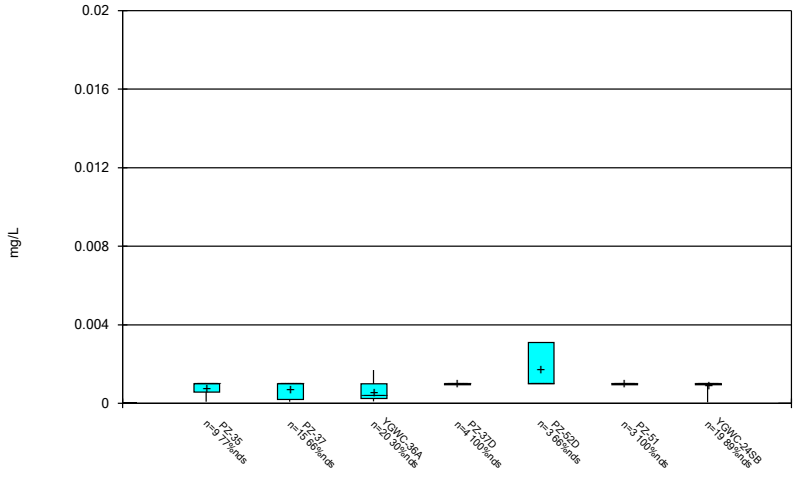
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

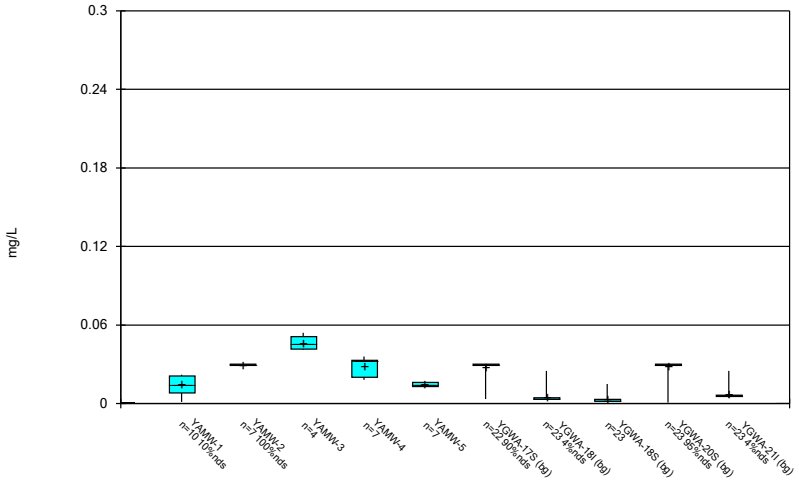
Box & Whiskers Plot



Constituent: Lead Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

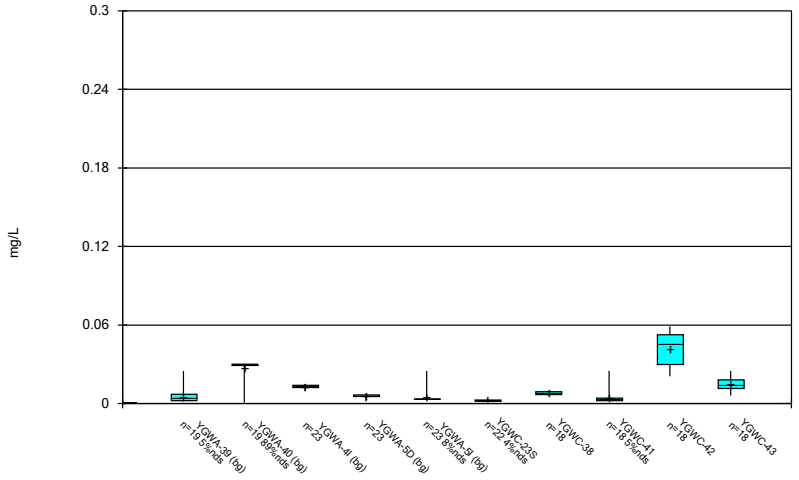


Constituent: Lithium Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

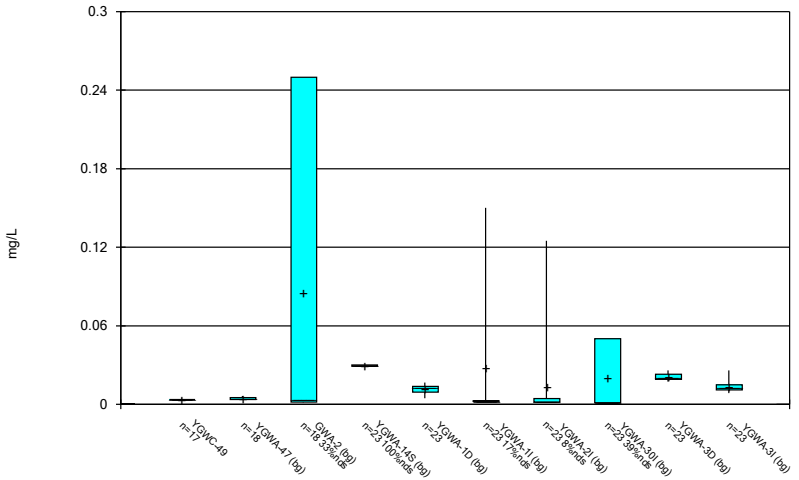


Constituent: Lithium Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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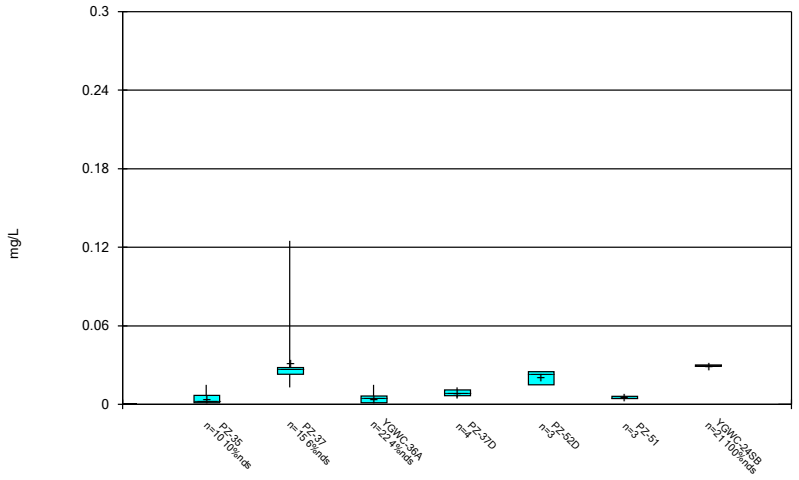
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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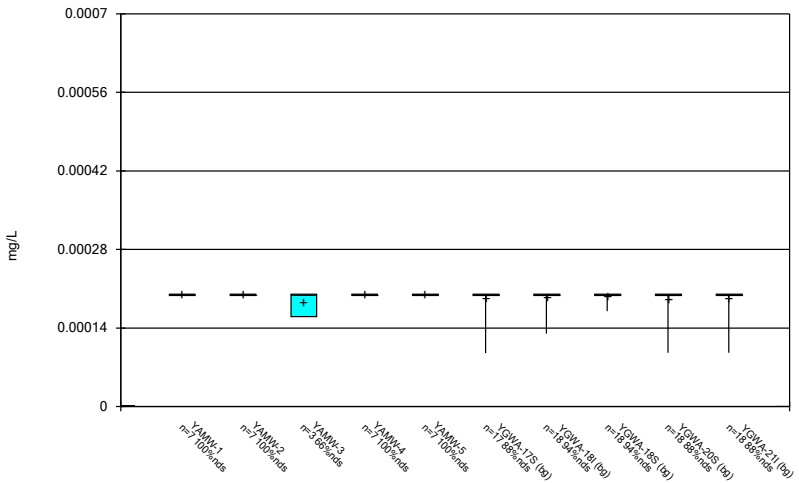
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

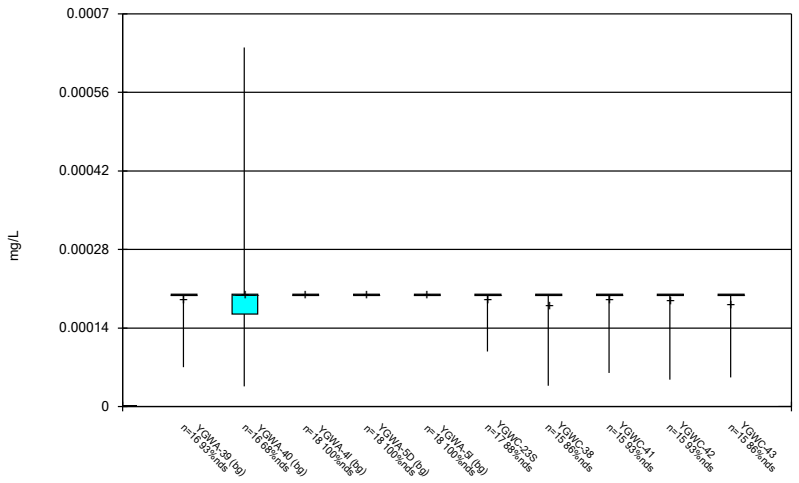


Constituent: Mercury Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

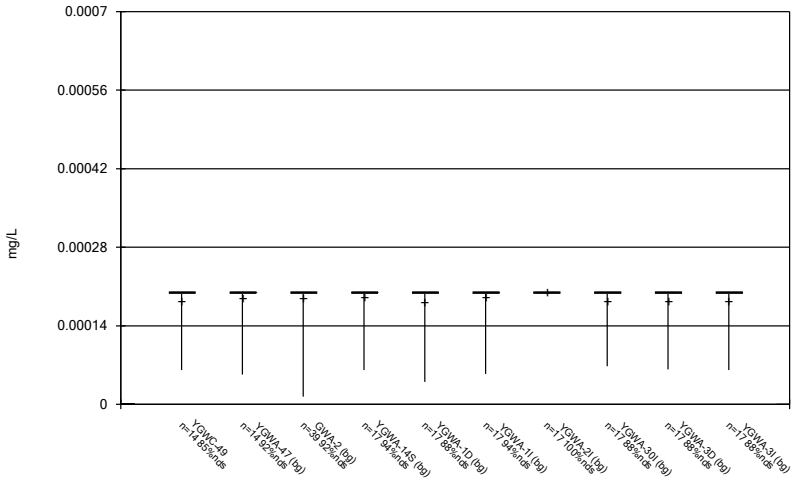


Constituent: Mercury Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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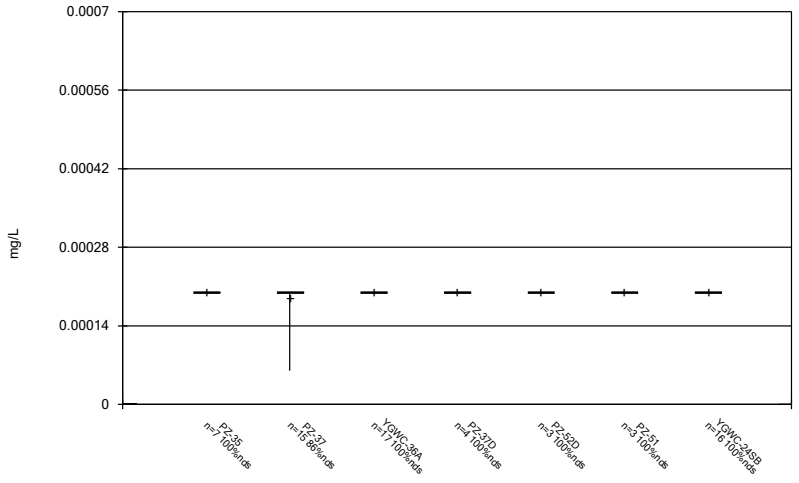
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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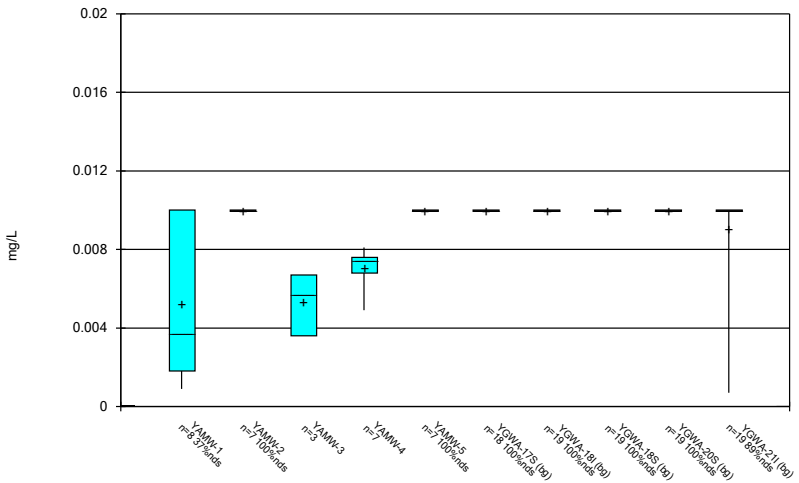
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

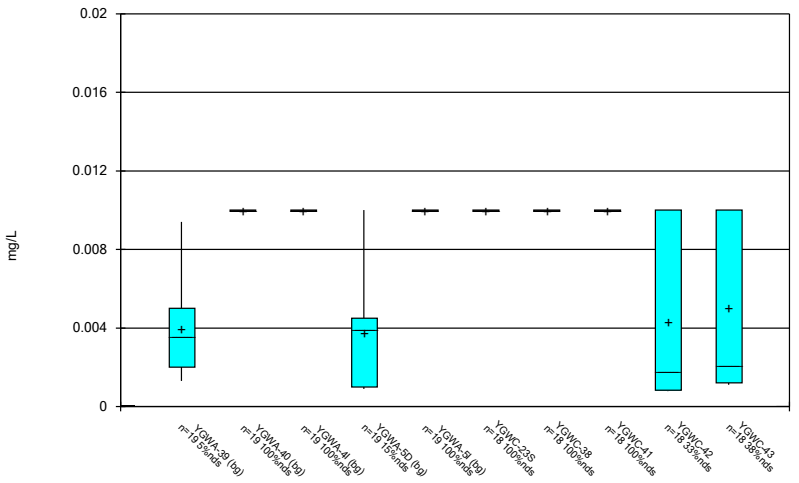


Constituent: Molybdenum Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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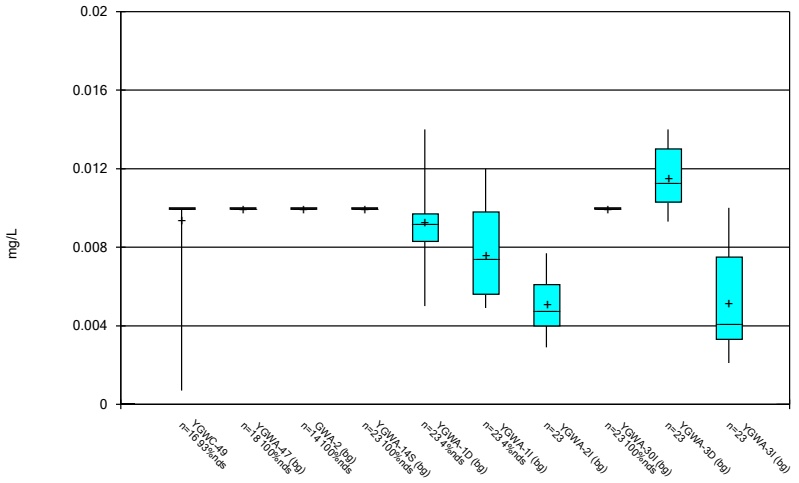
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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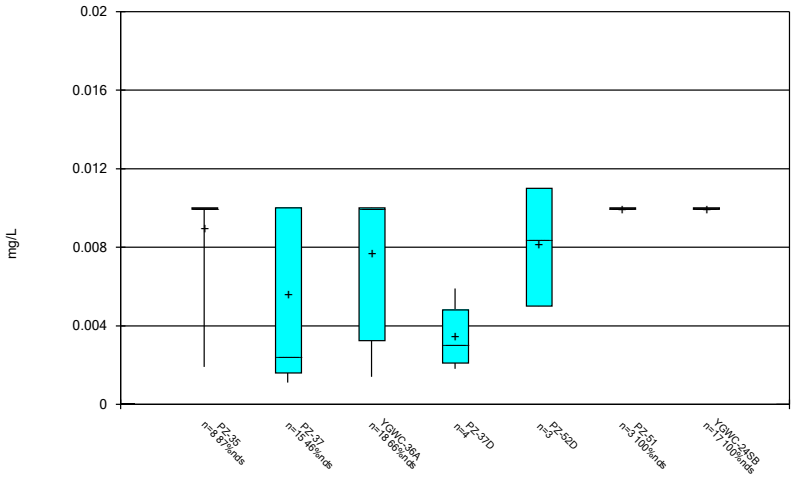
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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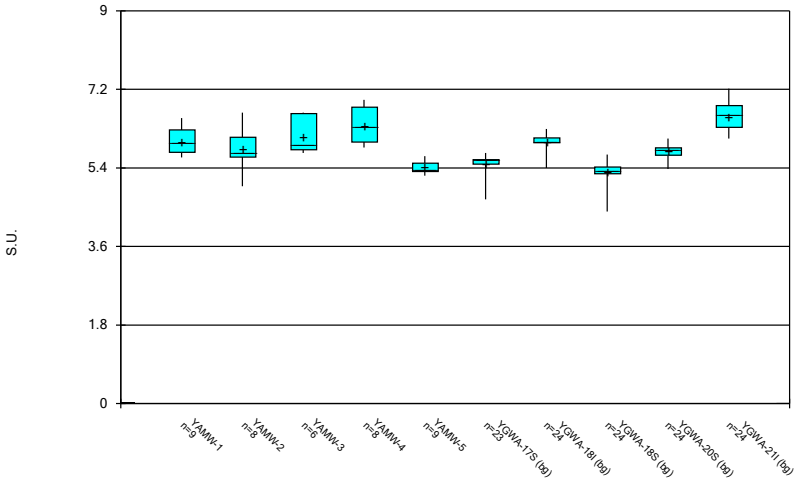
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

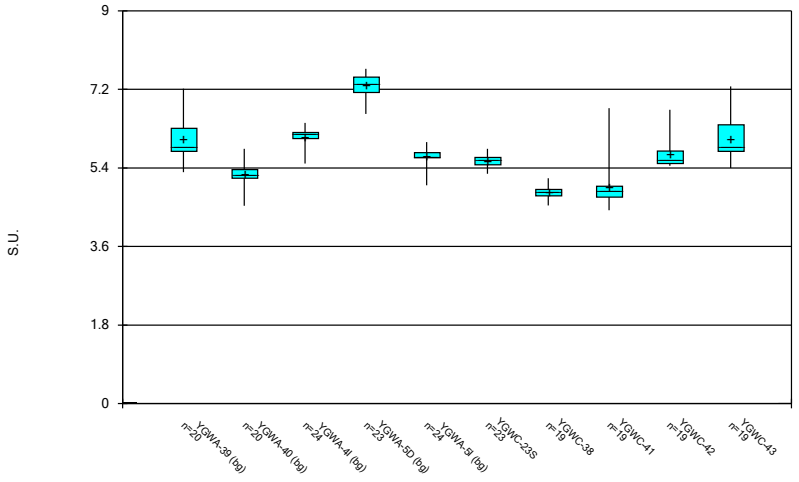


Constituent: pH Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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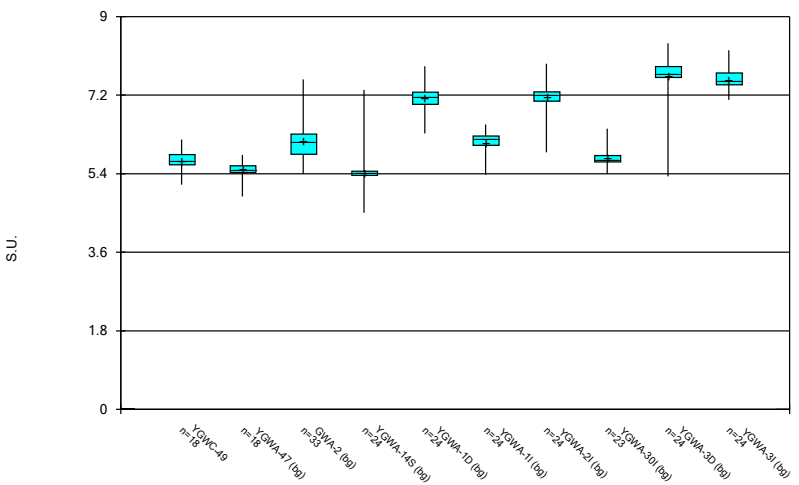

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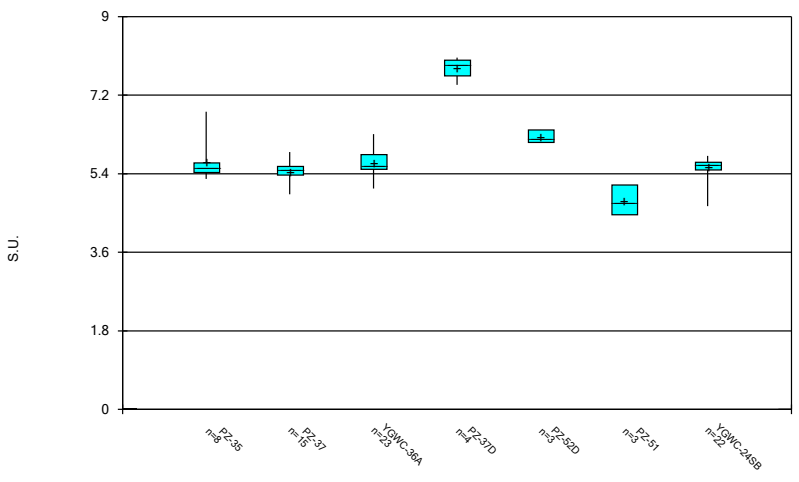
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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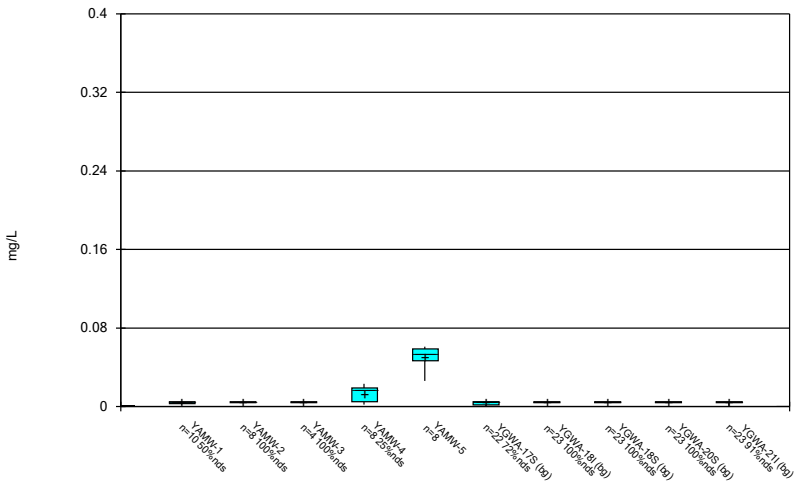
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

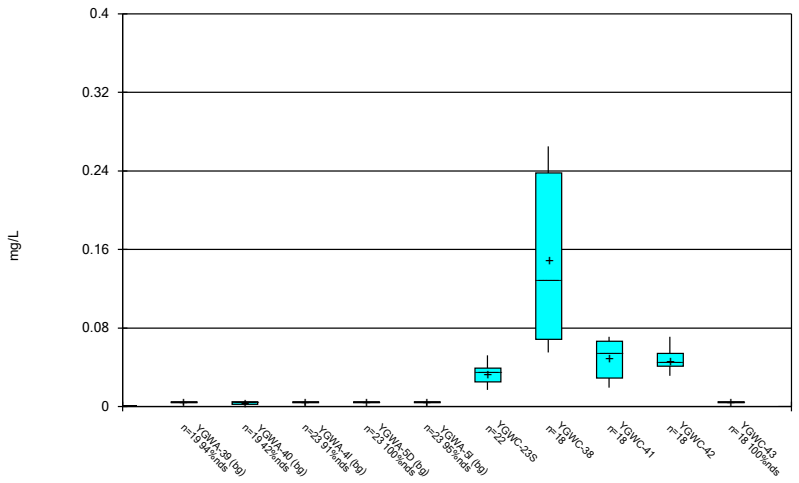


Constituent: Selenium Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

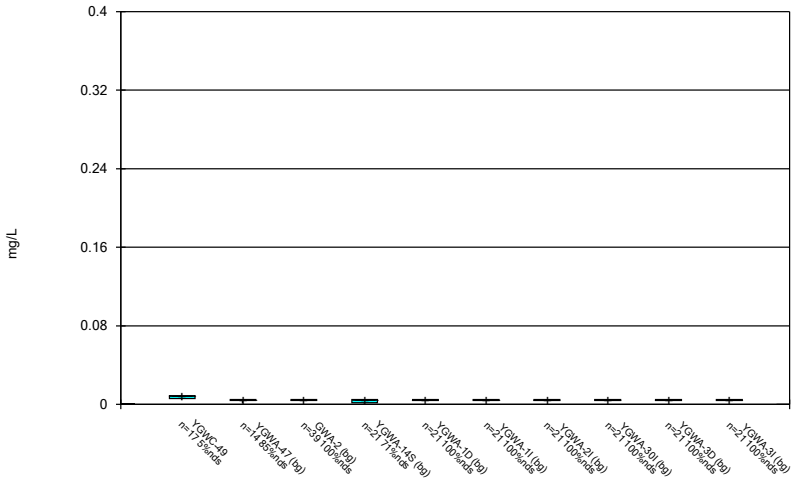


Constituent: Selenium Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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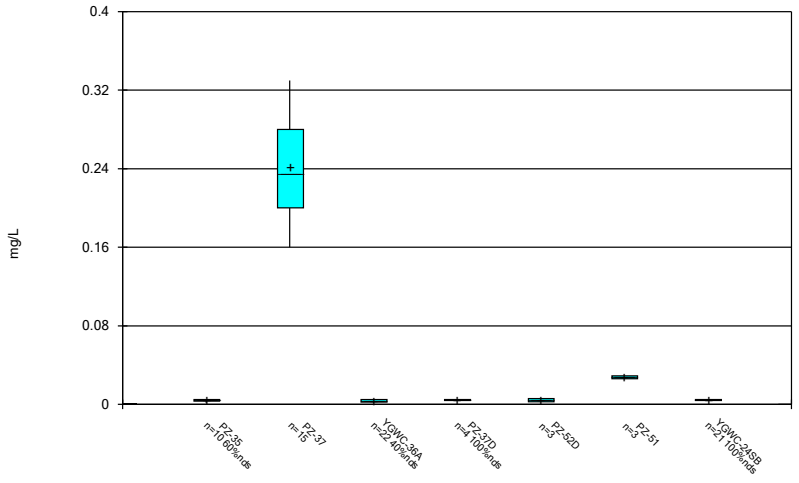

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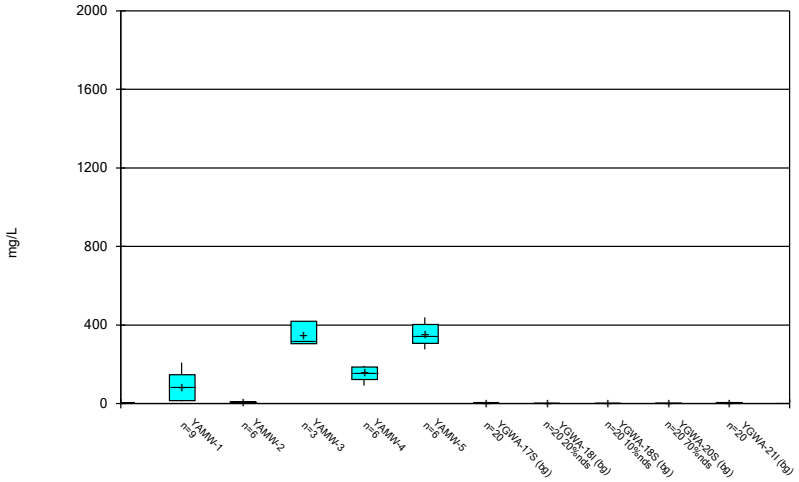

Constituent: Sulfate Analysis Run 4/26/2023 11:09 AM

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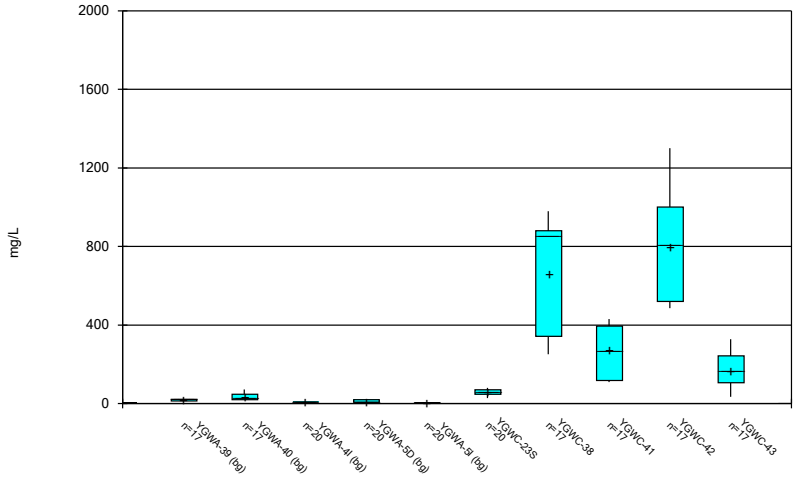
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Sulfate Analysis Run 4/26/2023 11:09 AM

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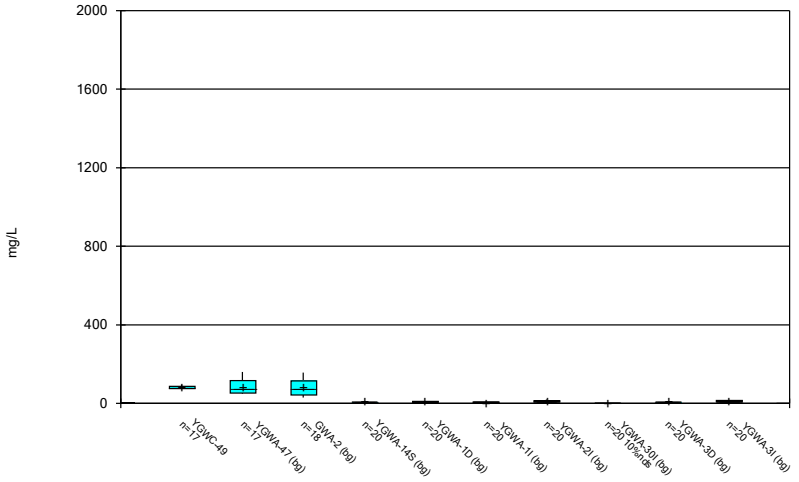

Constituent: Sulfate Analysis Run 4/26/2023 11:09 AM

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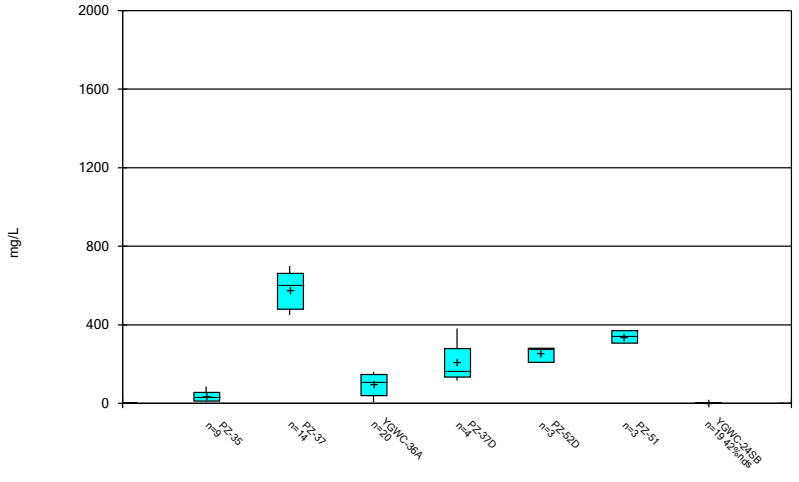
Box & Whiskers Plot



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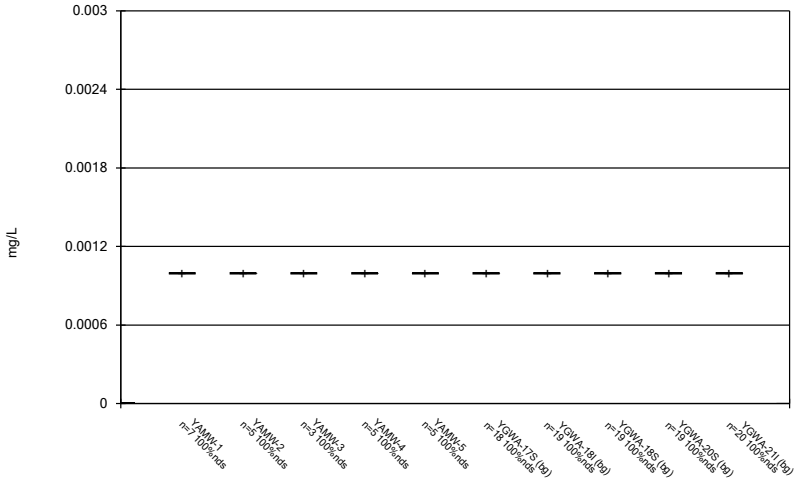
Box & Whiskers Plot

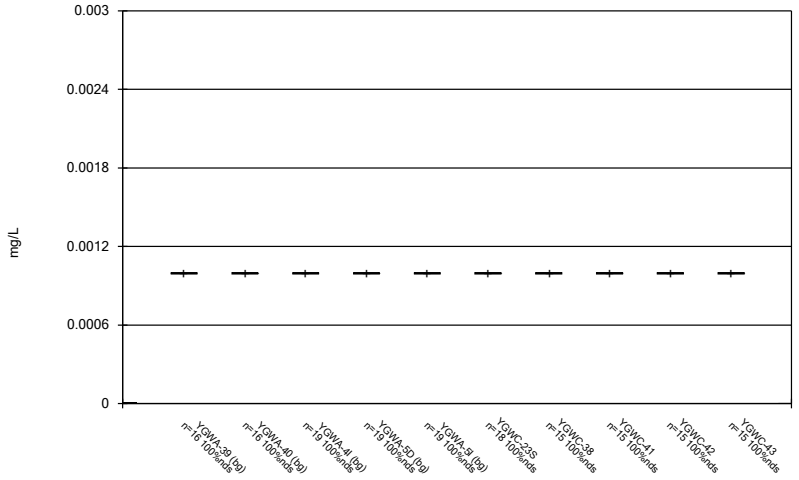


Constituent: Thallium Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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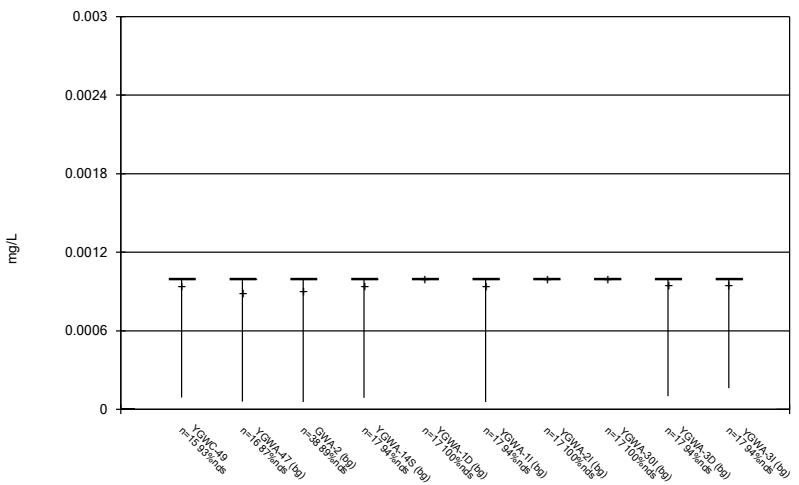
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

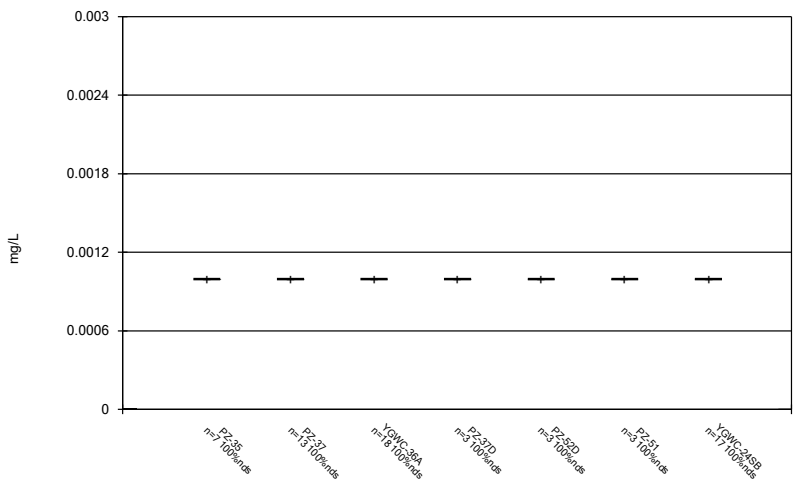


Constituent: Thallium Analysis Run 4/26/2023 11:10 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

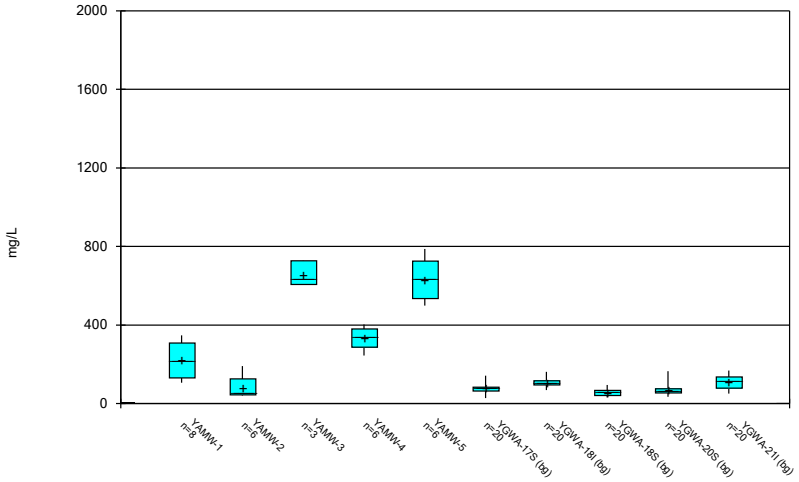
Box & Whiskers Plot



Constituent: Thallium Analysis Run 4/26/2023 11:10 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

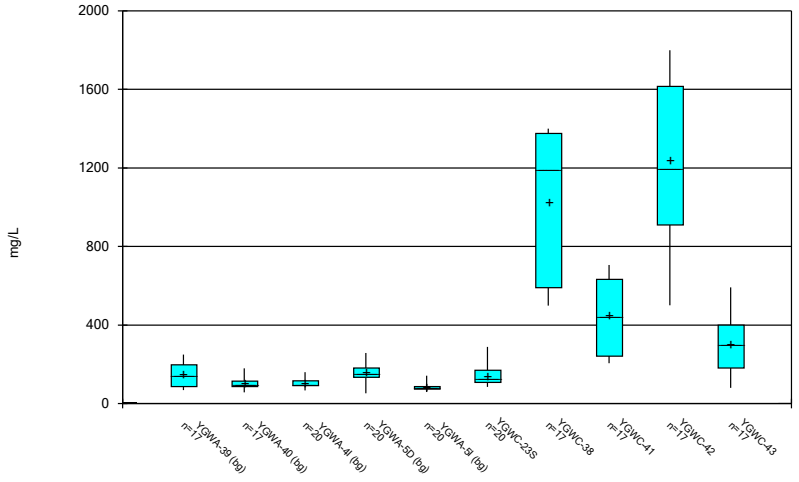
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:10 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

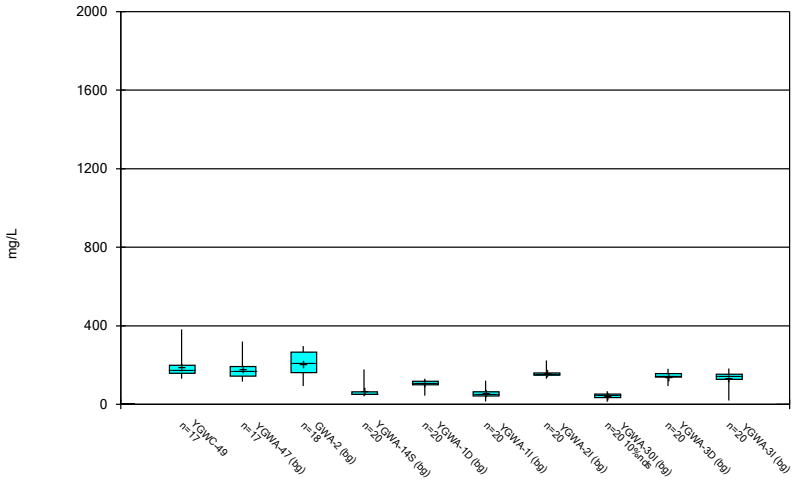
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:10 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

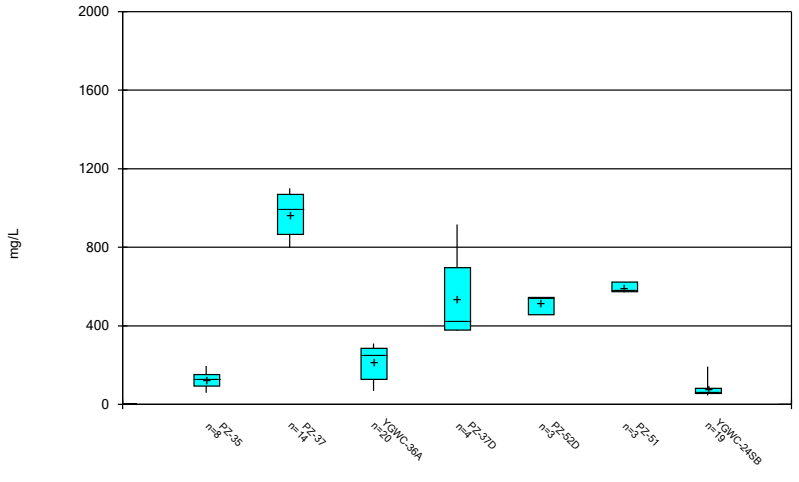
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:10 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:10 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

FIGURE C.

Outlier Summary

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/26/2023, 11:11 AM

	GWA-2 Cobalt (mg/L)	YGWA-47 pH (S.U.)
4/2/2018		6.3 (O)
8/26/2020	0.2 (O)	
9/22/2020	0.16 (O)	
3/2/2021	0.21 (O)	
8/20/2021	0.074 (O)	
2/8/2022	0.072 (o)	
8/30/2022	0.075 (o)	

FIGURE D.

Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/26/2023, 11:21 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**YGWC-23S**	**0.16**	**n/a**	**2/8/2023**	**1.6**	**Yes**	**369**	**n/a**	**n/a**	**49.86**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-38**	**0.16**	**n/a**	**2/8/2023**	**4.1**	**Yes**	**369**	**n/a**	**n/a**	**49.86**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-41**	**0.16**	**n/a**	**2/8/2023**	**3.3**	**Yes**	**369**	**n/a**	**n/a**	**49.86**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-42**	**0.16**	**n/a**	**2/8/2023**	**14.5**	**Yes**	**369**	**n/a**	**n/a**	**49.86**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-43**	**0.16**	**n/a**	**2/8/2023**	**2.5**	**Yes**	**369**	**n/a**	**n/a**	**49.86**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**YGWC-38**	**37**	**n/a**	**2/8/2023**	**55.3**	**Yes**	**369**	**n/a**	**n/a**	**0.813**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**YGWC-42**	**37**	**n/a**	**2/8/2023**	**74.6**	**Yes**	**369**	**n/a**	**n/a**	**0.813**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**YGWC-38**	**160**	**n/a**	**2/8/2023**	**251**	**Yes**	**369**	**n/a**	**n/a**	**5.962**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**YGWC-42**	**160**	**n/a**	**2/8/2023**	**494**	**Yes**	**369**	**n/a**	**n/a**	**5.962**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**YGWC-43**	**160**	**n/a**	**2/8/2023**	**164**	**Yes**	**369**	**n/a**	**n/a**	**5.962**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	**YGWC-38**	**225**	**n/a**	**2/8/2023**	**579**	**Yes**	**369**	**10.11**	**2.582**	**0.542**	**None**	**sqrt(x)**	**0.0009403**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**YGWC-41**	**225**	**n/a**	**2/8/2023**	**257**	**Yes**	**369**	**10.11**	**2.582**	**0.542**	**None**	**sqrt(x)**	**0.0009403**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**YGWC-42**	**225**	**n/a**	**2/8/2023**	**853**	**Yes**	**369**	**10.11**	**2.582**	**0.542**	**None**	**sqrt(x)**	**0.0009403**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**YGWC-43**	**225**	**n/a**	**2/8/2023**	**333**	**Yes**	**369**	**10.11**	**2.582**	**0.542**	**None**	**sqrt(x)**	**0.0009403**	**Param Inter 1 of 2**

Appendix III Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/26/2023, 11:21 AM

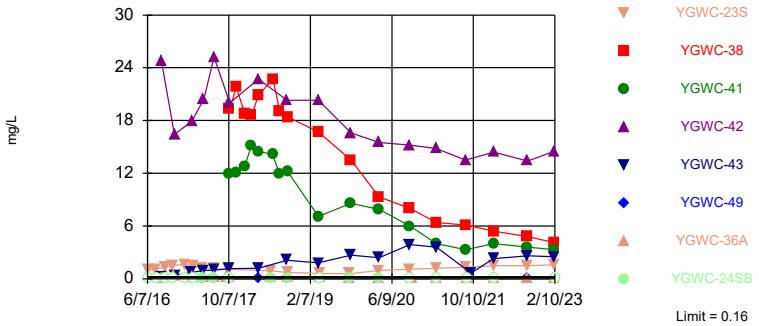
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**YGWC-23S**	**0.16**	**n/a**	**2/8/2023**	**1.6**	**Yes**	**369**	**n/a**	**n/a**	**49.86**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-38**	**0.16**	**n/a**	**2/8/2023**	**4.1**	**Yes**	**369**	**n/a**	**n/a**	**49.86**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-41**	**0.16**	**n/a**	**2/8/2023**	**3.3**	**Yes**	**369**	**n/a**	**n/a**	**49.86**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-42**	**0.16**	**n/a**	**2/8/2023**	**14.5**	**Yes**	**369**	**n/a**	**n/a**	**49.86**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-43**	**0.16**	**n/a**	**2/8/2023**	**2.5**	**Yes**	**369**	**n/a**	**n/a**	**49.86**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	YGWC-49	0.16	n/a	2/9/2023	0.014J	No	369	n/a	n/a	49.86	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-36A	0.16	n/a	2/9/2023	0.028J	No	369	n/a	n/a	49.86	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-24SB	0.16	n/a	2/10/2023	0.04ND	No	369	n/a	n/a	49.86	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-23S	37	n/a	2/8/2023	10.9	No	369	n/a	n/a	0.813	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	**YGWC-38**	**37**	**n/a**	**2/8/2023**	**55.3**	**Yes**	**369**	**n/a**	**n/a**	**0.813**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	YGWC-41	37	n/a	2/8/2023	14.4	No	369	n/a	n/a	0.813	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	**YGWC-42**	**37**	**n/a**	**2/8/2023**	**74.6**	**Yes**	**369**	**n/a**	**n/a**	**0.813**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	YGWC-43	37	n/a	2/8/2023	11	No	369	n/a	n/a	0.813	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-49	37	n/a	2/9/2023	11.8	No	369	n/a	n/a	0.813	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-36A	37	n/a	2/9/2023	9.2	No	369	n/a	n/a	0.813	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-24SB	37	n/a	2/10/2023	2.4	No	369	n/a	n/a	0.813	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-23S	12	n/a	2/8/2023	2	No	369	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-38	12	n/a	2/8/2023	3.9	No	369	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-41	12	n/a	2/8/2023	4	No	369	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-42	12	n/a	2/8/2023	3.4	No	369	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-43	12	n/a	2/8/2023	2.4	No	369	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-49	12	n/a	2/9/2023	4.4	No	369	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-36A	12	n/a	2/9/2023	5.9	No	369	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-24SB	12	n/a	2/10/2023	9.1	No	369	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Fluoride (mg/L)	YGWC-23S	0.68	n/a	2/8/2023	0.1ND	No	438	n/a	n/a	64.16	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-38	0.68	n/a	2/8/2023	0.1ND	No	438	n/a	n/a	64.16	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-41	0.68	n/a	2/8/2023	0.1ND	No	438	n/a	n/a	64.16	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-42	0.68	n/a	2/8/2023	0.08J	No	438	n/a	n/a	64.16	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-43	0.68	n/a	2/8/2023	0.11	No	438	n/a	n/a	64.16	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-49	0.68	n/a	2/9/2023	0.1ND	No	438	n/a	n/a	64.16	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-36A	0.68	n/a	2/9/2023	0.1ND	No	438	n/a	n/a	64.16	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-24SB	0.68	n/a	2/10/2023	0.051J	No	438	n/a	n/a	64.16	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
pH (S.U.)	YGWC-23S	8.39	4.4	2/8/2023	5.33	No	448	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-38	8.39	4.4	2/8/2023	5.16	No	448	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-41	8.39	4.4	2/8/2023	4.69	No	448	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-42	8.39	4.4	2/8/2023	5.48	No	448	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-43	8.39	4.4	2/8/2023	5.4	No	448	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-49	8.39	4.4	2/9/2023	5.61	No	448	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-36A	8.39	4.4	2/9/2023	5.67	No	448	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-24SB	8.39	4.4	2/10/2023	5.67	No	448	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-23S	160	n/a	2/8/2023	78	No	369	n/a	n/a	5.962	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**YGWC-38**	**160**	**n/a**	**2/8/2023**	**251**	**Yes**	**369**	**n/a**	**n/a**	**5.962**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	YGWC-41	160	n/a	2/8/2023	119	No	369	n/a	n/a	5.962	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**YGWC-42**	**160**	**n/a**	**2/8/2023**	**494**	**Yes**	**369**	**n/a**	**n/a**	**5.962**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**YGWC-43**	**160**	**n/a**	**2/8/2023**	**164**	**Yes**	**369**	**n/a**	**n/a**	**5.962**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	YGWC-49	160	n/a	2/9/2023	71.1	No	369	n/a	n/a	5.962	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-36A	160	n/a	2/9/2023	50.8	No	369	n/a	n/a	5.962	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-24SB	160	n/a	2/10/2023	0.5J	No	369	n/a	n/a	5.962	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-23S	225	n/a	2/8/2023	158	No	369	10.11	2.582	0.542	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	**YGWC-38**	**225**	**n/a**	**2/8/2023**	**579**	**Yes**	**369**	**10.11**	**2.582**	**0.542**	**None**	**sqrt(x)**	**0.0009403**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**YGWC-41**	**225**	**n/a**	**2/8/2023**	**257**	**Yes**	**369**	**10.11**	**2.582**	**0.542**	**None**	**sqrt(x)**	**0.0009403**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**YGWC-42**	**225**	**n/a**	**2/8/2023**	**853**	**Yes**	**369**	**10.11**	**2.582**	**0.542**	**None**	**sqrt(x)**	**0.0009403**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**YGWC-43**	**225**	**n/a**	**2/8/2023**	**333**	**Yes**	**369**	**10.11**	**2.582**	**0.542**	**None**	**sqrt(x)**	**0.0009403**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	YGWC-49	225	n/a	2/9/2023	145	No	369	10.11	2.582	0.542	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-36A	225	n/a	2/9/2023	116	No	369	10.11	2.582	0.542	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-24SB	225	n/a	2/10/2023	66	No	369	10.11	2.582	0.542	None	sqrt(x)	0.0009403	Param Inter 1 of 2

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
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 the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 369 background values. 49.86% NDs. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

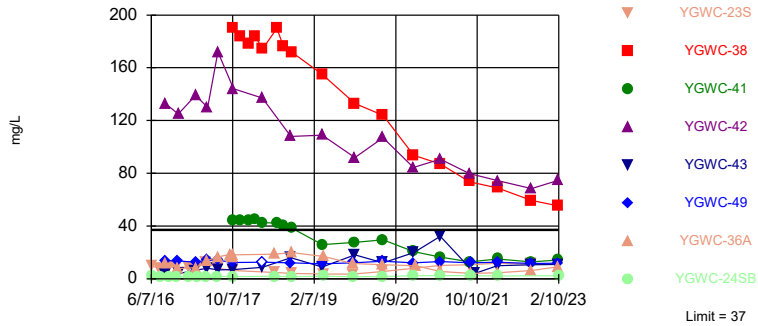
Constituent: Boron Analysis Run 4/26/2023 11:20 AM View: Appendix III
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
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 369 background values. 0.813% NDs. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

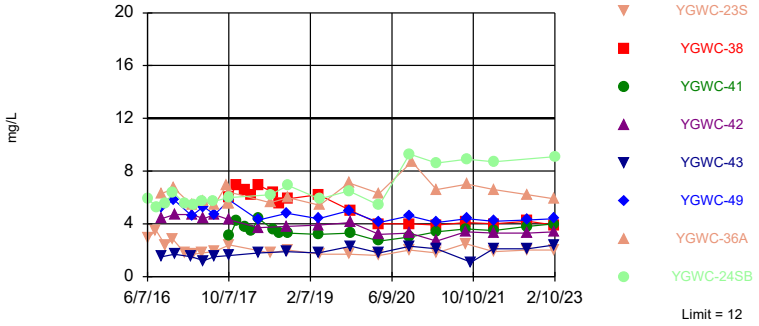
Constituent: Calcium Analysis Run 4/26/2023 11:20 AM View: Appendix III
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 369 background values. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

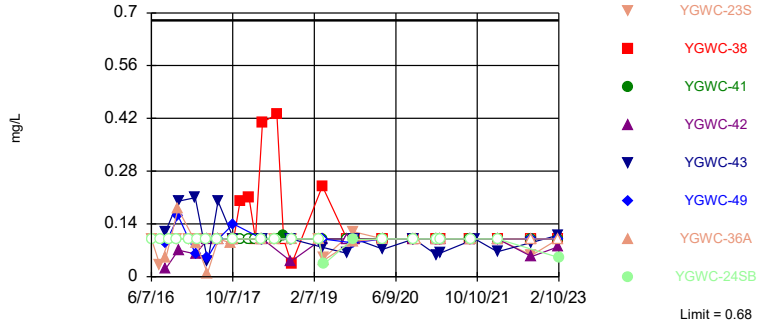
Constituent: Chloride Analysis Run 4/26/2023 11:20 AM View: Appendix III
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 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 438 background values. 64.16% NDs. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

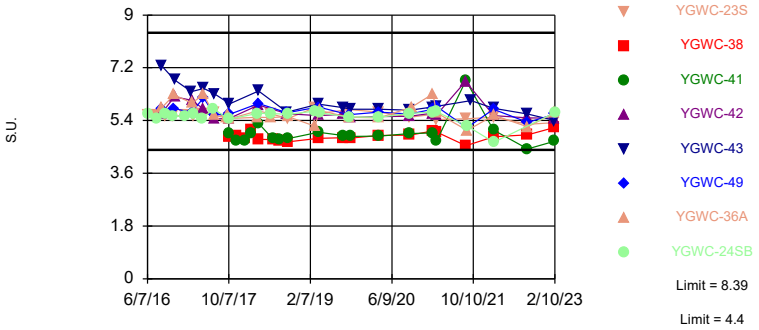
Constituent: Fluoride Analysis Run 4/26/2023 11:20 AM View: Appendix III
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Within Limits

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 448 background values. Annual per-constituent alpha = 0.001573. Individual comparison alpha = 0.00009834 (1 of 2). Comparing 8 points to limit.

Constituent: pH Analysis Run 4/26/2023 11:20 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

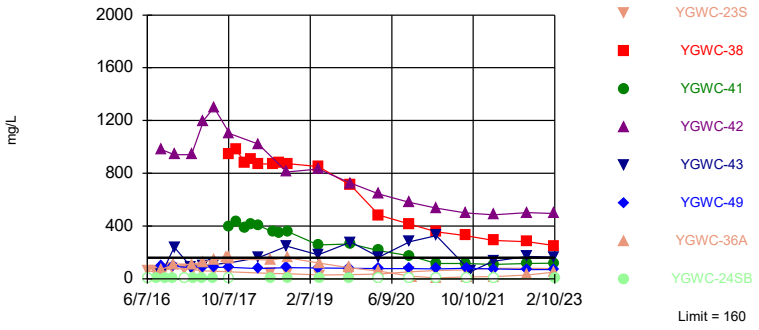
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Exceeds Limit: YGWC-38, YGWC-42, YGWC-43

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 369 background values. 5.962% NDs. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

Constituent: Sulfate Analysis Run 4/26/2023 11:20 AM View: Appendix III

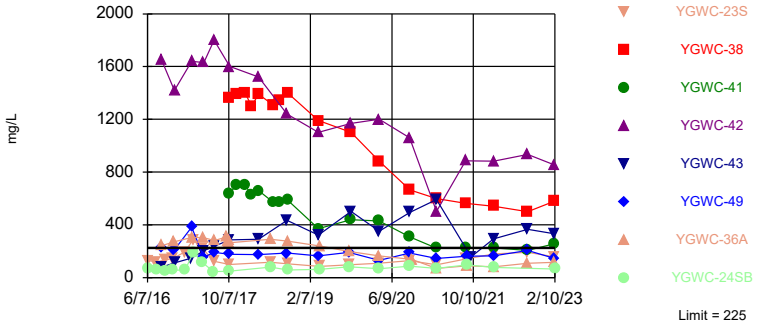
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Exceeds Limit: YGWC-38, YGWC-41, YGWC-42, YGWC-43

Prediction Limit

Interwell Parametric



Background Data Summary (based on square root transformation): Mean=10.11, Std. Dev.=2.582, n=369, 0.542% NDs. Normality test: Chi Squared @alpha = 0.01, calculated = 12.71, critical = 14.07. Kappa = 1.894 (c=7, w=8, 1 of 2, event alpha = 0.05132). N exceeds UG tables; Kappa based on n=150. Report alpha = 0.007498. Individual comparison alpha = 0.0009403. Comparing 8 points to limit.

Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:20 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-3D (bg)
6/1/2016	<0.04	<0.04	<0.04						
6/2/2016				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	<0.04	<0.04			<0.04				
7/26/2016			0.0055 (J)	0.0052 (J)		0.0177 (J)	<0.04	0.0047 (J)	0.0097 (J)
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016		<0.04	<0.04						
9/14/2016	<0.04			0.0071 (J)			0.01 (J)	<0.04	
9/15/2016						0.0214 (J)			0.0102 (J)
9/16/2016									
9/19/2016					<0.04				
9/20/2016									
11/1/2016	<0.04		0.0086 (J)		<0.04				<0.04
11/2/2016				<0.04		<0.04		<0.04	
11/3/2016									
11/4/2016		<0.04					<0.04		
11/8/2016									
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017						0.0198 (J)			
1/11/2017	<0.04		0.0074 (J)						<0.04
1/12/2017				0.0076 (J)			<0.04		
1/13/2017								<0.04	
1/16/2017		<0.04			<0.04				
1/17/2017									
2/21/2017					<0.04				
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017	<0.04								
3/2/2017		<0.04	0.008 (J)						0.0084 (J)
3/3/2017									
3/6/2017								<0.04	
3/7/2017				0.0089 (J)			<0.04		
3/8/2017						0.0189 (J)			
3/9/2017									
4/26/2017	<0.04				<0.04	0.0161 (J)			<0.04
4/27/2017		<0.04	0.0066 (J)						
4/28/2017									
5/1/2017				0.0061 (J)				<0.04	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-3D (bg)
5/2/2017							<0.04		
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		0.006 (J)	0.0087 (J)	0.0079 (J)			<0.04		
6/28/2017	<0.04								<0.04
6/29/2017								<0.04	
6/30/2017					<0.04	0.0173 (J)			
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017		0.0071 (J)	0.0072 (J)	0.0094 (J)			<0.04		
10/4/2017	<0.04				<0.04				<0.04
10/5/2017						0.0173 (J)		<0.04	
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018			0.0052 (J)						
6/6/2018		<0.04		0.0098 (J)					
6/7/2018							<0.04	0.0045 (J)	0.004 (J)
6/8/2018	<0.04					0.013 (J)			
6/11/2018					0.014 (J)				
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									
9/25/2018									
9/26/2018				0.01 (J)			0.0057 (J)	0.005 (J)	
9/27/2018									
10/1/2018	<0.04	0.0049 (J)	0.021 (J)			0.015 (J)			<0.04

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-3D (bg)
10/2/2018					<0.04				
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019		<0.04	0.005 (J)						
3/29/2019						0.014 (J)			
4/1/2019	<0.04				<0.04				<0.04
4/2/2019									
4/3/2019				0.0076 (J)			0.0044 (J)	0.0055 (J)	
4/4/2019									
6/12/2019									
9/24/2019		0.0055 (J)	0.0064 (J)	0.01 (J)			0.0049 (J)		
9/25/2019	<0.04				<0.04	0.018 (J)		<0.04	0.0054 (J)
9/26/2019									
9/27/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020		0.0087 (J)				0.02 (J)			
3/19/2020	0.0053 (J)		0.0085 (J)		0.0052 (J)				0.0073 (J)
3/24/2020				0.011 (J)			0.0068 (J)		
3/25/2020								0.011 (J)	
3/26/2020									
9/22/2020				0.0079 (J)			0.0053 (J)	<0.04	
9/23/2020	0.0073 (J)	<0.04	<0.04						0.012 (J)
9/24/2020					0.0075 (J)				
9/25/2020						0.02 (J)			
10/7/2020									
3/1/2021					<0.04				
3/2/2021				0.0068 (J)		0.017 (J)	0.011 (J)		
3/3/2021	<0.04	<0.04	<0.04					0.0056 (J)	<0.04
3/4/2021									
8/19/2021		<0.04	<0.04		<0.04	0.018 (J)			<0.04
8/20/2021									
8/25/2021									
8/26/2021				0.009 (J)			<0.04	<0.04	
8/27/2021	<0.04								
9/1/2021									
9/3/2021									
9/27/2021									
2/8/2022									
2/9/2022	<0.04	<0.04	<0.04						0.01 (J)
2/10/2022				0.011 (J)		0.02 (J)	<0.04		
2/11/2022					<0.04			<0.04	
8/30/2022			<0.04	0.0098 (J)			<0.04		
8/31/2022	<0.04	<0.04			<0.04	0.015 (J)		<0.04	<0.04
9/1/2022									
2/7/2023		<0.04	<0.04	<0.04					
2/8/2023	<0.04				<0.04	0.015 (J)			<0.04
2/9/2023							<0.04	<0.04	
2/10/2023									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
6/1/2016									
6/2/2016									
6/6/2016	<0.04	<0.04							
6/7/2016			<0.04	<0.04	<0.04	0.99			
6/8/2016							<0.04		
7/25/2016									
7/26/2016									
7/27/2016	0.0059 (J)	<0.04	0.008 (J)	<0.04					
7/28/2016					<0.04	1.09			
8/1/2016							<0.04		
8/30/2016								24.7	0.0166 (J)
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	0.0079 (J)		0.0086 (J)						
9/19/2016		<0.04		<0.04	<0.04				
9/20/2016						1.35	<0.04		
11/1/2016									
11/2/2016				<0.04					
11/3/2016	0.0082 (J)	<0.04	0.0077 (J)		<0.04				
11/4/2016									
11/8/2016						1.5	<0.04		
11/14/2016									0.0166 (J)
11/15/2016									
11/16/2016								16.4	
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	0.0096 (J)	<0.04	0.0092 (J)						
1/12/2017									
1/13/2017				<0.04	<0.04				
1/16/2017						1.67			
1/17/2017							<0.04		
2/21/2017									
2/22/2017									
2/24/2017									0.0145 (J)
2/27/2017								17.9	
2/28/2017									
3/1/2017	<0.04	<0.04							
3/2/2017			0.0095 (J)						
3/3/2017									
3/6/2017				<0.04	<0.04				
3/7/2017									
3/8/2017							<0.04		
3/9/2017						1.44			
4/26/2017	0.0091 (J)	<0.04		<0.04	<0.04				
4/27/2017									
4/28/2017									
5/1/2017									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
5/2/2017			<0.04			1.2	0.0099 (J)		
5/8/2017									0.0141 (J)
5/9/2017									
5/10/2017								20.4	
5/26/2017									
6/27/2017									
6/28/2017	0.0079 (J)	<0.04							
6/29/2017			0.0074 (J)	<0.04	<0.04				
6/30/2017									
7/7/2017							0.0076 (J)		
7/10/2017						1.12			
7/11/2017								25.2	0.0131 (J)
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017					<0.04				
10/4/2017	0.009 (J)		0.0077 (J)	<0.04					
10/5/2017		<0.04					<0.04		
10/6/2017									
10/10/2017									0.0124 (J)
10/11/2017						1.09			
10/12/2017								20	
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									0.013 (J)
4/3/2018									
4/4/2018								22.7	
6/5/2018					0.0092 (J)				
6/6/2018				0.0049 (J)					
6/7/2018		<0.04							
6/8/2018									
6/11/2018	0.0093 (J)		0.01 (J)						
6/12/2018						0.9	0.018 (J)		
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									0.012 (J)
9/20/2018								20.3	
9/24/2018									
9/25/2018	0.007 (J)	0.0046 (J)	0.0096 (J)	<0.04	0.0054 (J)				
9/26/2018							0.0055 (J)		
9/27/2018						0.71			
10/1/2018									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
10/2/2018									
2/25/2019									
3/26/2019									
3/27/2019								20.3	0.013 (J)
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			0.0066 (J)		0.011 (J)				
4/3/2019	0.0053 (J)	<0.04		<0.04					
4/4/2019						0.6	<0.04		
6/12/2019									
9/24/2019					0.018 (J)				
9/25/2019			0.0081 (J)	<0.04					
9/26/2019	0.0072 (J)	0.0062 (J)					0.0068 (J)		
9/27/2019						0.58			
10/8/2019									0.012 (J)
10/9/2019								16.6	
3/17/2020									0.023 (J)
3/18/2020									
3/19/2020									
3/24/2020	0.01 (J)	0.0054 (J)	0.0092 (J)	<0.04	0.016 (J)				
3/25/2020								15.5	
3/26/2020						0.94	0.033 (J)		
9/22/2020									0.0076 (J)
9/23/2020	0.006 (J)	0.021 (J)	0.0066 (J)				<0.04		
9/24/2020				0.0094 (J)	0.013 (J)	1.1		15.2	
9/25/2020									
10/7/2020									
3/1/2021									0.013 (J)
3/2/2021									
3/3/2021	0.0094 (J)	<0.04	0.01 (J)	<0.04			<0.04		
3/4/2021					0.0079 (J)	1.2		14.8	
8/19/2021									0.011 (J)
8/20/2021									
8/25/2021						1.3		13.5	
8/26/2021	<0.04								
8/27/2021		<0.04	0.011 (J)	<0.04					
9/1/2021					<0.04		<0.04		
9/3/2021									
9/27/2021									
2/8/2022									0.015 (J)
2/9/2022	<0.04	<0.04	0.0098 (J)	<0.04	<0.04				
2/10/2022						1.5	<0.04	14.4	
2/11/2022									
8/30/2022	0.014 (J)	<0.04	0.013 (J)		0.012 (J)				
8/31/2022				<0.04					0.0091 (J)
9/1/2022						1.5		13.4	
2/7/2023	<0.04	<0.04	0.014 (J)	<0.04	<0.04				
2/8/2023						1.6		14.5	0.011 (J)
2/9/2023									
2/10/2023							<0.04		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWC-38	YGWA-40 (bg)
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016									
7/26/2016									
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016	0.0315 (J)	0.169							
9/1/2016			0.0113 (J)						
9/2/2016				0.133					
9/13/2016									
9/14/2016					<0.04				
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016					<0.04				
11/8/2016									
11/14/2016				0.287					
11/15/2016			0.0074 (J)						
11/16/2016		0.406							
11/28/2016	0.0095 (J)								
12/15/2016					0.0107 (J)				
1/10/2017									
1/11/2017									
1/12/2017									
1/13/2017									
1/16/2017					<0.04				
1/17/2017									
2/21/2017									
2/22/2017	<0.04								
2/24/2017		0.725							
2/27/2017			<0.04						
2/28/2017				0.215					
3/1/2017									
3/2/2017									
3/3/2017					<0.04				
3/6/2017									
3/7/2017									
3/8/2017									
3/9/2017									
4/26/2017									
4/27/2017									
4/28/2017					<0.04				
5/1/2017									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWC-38	YGWA-40 (bg)
5/2/2017									
5/8/2017	0.0084 (J)								
5/9/2017			<0.04	0.233					
5/10/2017		0.955							
5/26/2017					<0.04				
6/27/2017									
6/28/2017					<0.04				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017		0.994							
7/13/2017			0.0093 (J)	0.262					
7/17/2017	0.0092 (J)								
9/22/2017				0.238					
9/29/2017				0.235					
10/3/2017					<0.04				
10/4/2017									
10/5/2017									
10/6/2017				0.256					
10/10/2017									
10/11/2017			<0.04	0.245		0.0135 (J)			
10/12/2017		1.15					12	19.3	0.0401
10/16/2017	<0.04								
11/20/2017						0.0251 (J)		21.8	0.156
11/21/2017							12.1		
1/10/2018									0.15
1/11/2018						0.0255 (J)	12.8		
1/12/2018								18.7	
2/19/2018	<0.04						15.2		0.146
2/20/2018						<0.04		18.6	
4/2/2018									
4/3/2018						0.033 (J)	14.5	20.9	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)	11.9	19.1	0.12
9/19/2018									
9/20/2018		2.1	0.0042 (J)						
9/24/2018						0.028 (J)	12.2	18.4	0.099
9/25/2018									
9/26/2018				0.24					
9/27/2018									
10/1/2018					<0.04				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWC-38	YGWA-40 (bg)
10/2/2018									
2/25/2019	<0.04								
3/26/2019									0.096
3/27/2019						0.017 (J)		16.7	
3/28/2019		1.8	<0.04				7.1		
3/29/2019					0.0065 (J)				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				0.22					
6/12/2019	<0.04								
9/24/2019					0.0076 (J)				
9/25/2019									
9/26/2019			<0.04	0.13					
9/27/2019									
10/8/2019	<0.04								
10/9/2019		2.7				0.017 (J)	8.6	13.5	0.079
3/17/2020	0.0051 (J)								
3/18/2020									
3/19/2020					0.0073 (J)				
3/24/2020									0.088 (J)
3/25/2020		2.4	0.012 (J)	0.11		0.043 (J)	7.9	9.3	
3/26/2020									
9/22/2020	0.0079 (J)								
9/23/2020					<0.04				
9/24/2020			0.062 (J)			0.037 (J)			0.087 (J)
9/25/2020		3.9					6	8	
10/7/2020				0.018 (J)					
3/1/2021									
3/2/2021	<0.04								
3/3/2021					<0.04				
3/4/2021		3.6	<0.04	0.0088 (J)		0.033 (J)	4	6.4	0.078
8/19/2021									
8/20/2021	<0.04								
8/25/2021									
8/26/2021						0.095	3.3	6.1	
8/27/2021					<0.04				
9/1/2021			<0.04						
9/3/2021				0.012 (J)					0.077
9/27/2021		0.64							
2/8/2022	<0.04	2.3	<0.04			0.13	4		0.074
2/9/2022					<0.04				
2/10/2022								5.4	
2/11/2022				0.019 (J)					
8/30/2022	<0.04				<0.04				
8/31/2022			0.011 (J)			0.14			0.062
9/1/2022		2.6		0.067			3.6	4.8	
2/7/2023	<0.04				<0.04	0.13			
2/8/2023		2.5					3.3	4.1	0.057
2/9/2023			0.014 (J)	0.028 (J)					
2/10/2023									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-3D (bg)
6/1/2016	21	2.5	12						
6/2/2016				33	1.3	1.3	2.4	8.8	28
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	20.3	2.16			1.17				
7/26/2016			11	32.3		1.24	2.12	7.69	24.5
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016		2.21	11.8						
9/14/2016	19.7			31			2.18	8.49	
9/15/2016						1.17			27
9/16/2016									
9/19/2016					1.05				
9/20/2016									
11/1/2016	18.4		11		1.14				25.6
11/2/2016				30.9		1.23		7.83	
11/3/2016									
11/4/2016		2.67					2.17 (J)		
11/8/2016									
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017						1.24			
1/11/2017	20.3		11.2						27.5
1/12/2017				35.7			2.37		
1/13/2017								8.08	
1/16/2017		2.45			1.23				
1/17/2017									
2/21/2017					1.25				
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017	18.6								
3/2/2017		2.57	11						27.5
3/3/2017									
3/6/2017								8.64	
3/7/2017				32.7			2.34		
3/8/2017						1.21			
3/9/2017									
4/26/2017	25.6				1.03	1.14			30.4
4/27/2017		2.38	11.1						
4/28/2017									
5/1/2017				37				13.4	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-3D (bg)
5/2/2017							2.17		
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		2.36	13.8	36.5			2.13		
6/28/2017	23.9								29.8
6/29/2017								8.81	
6/30/2017					1.13	1.24			
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017		2.21	14	30.9			2.15		
10/4/2017	22.1				1.09				29.7
10/5/2017						1.11		9.29	
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018			15.2 (J)						
6/6/2018		2.3		26.2					
6/7/2018							2.3	8.2	29.1
6/8/2018	21.9 (J)					1.1			
6/11/2018					1.1				
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									
9/25/2018									
9/26/2018				25.8			2.3	9.5 (J)	
9/27/2018									
10/1/2018	19.7	1.8	15.1			0.99			26.9

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-3D (bg)
10/2/2018					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)				1.3				30.1
4/2/2019									
4/3/2019				24.7 (J)			2.8	8.4	
4/4/2019									
6/12/2019									
9/24/2019		2.3	15.8	25.8			2.5		
9/25/2019	22.4				1.1	1.1		9.5	29.5
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		1.2				31.5
3/24/2020				26.1			2.5		
3/25/2020								10.5	
3/26/2020									
9/22/2020				27.2			2.6	9.6	
9/23/2020	23.6	1.8	14.1						28.6
9/24/2020					1.1				
9/25/2020						1.3			
10/7/2020									
3/1/2021					1.2				
3/2/2021				1.6		1.2	2.6		
3/3/2021	20.6	1.8	14.1					7.7	29.8
3/4/2021									
8/19/2021		2	14.2		1.2	1.2			28.1
8/20/2021									
8/25/2021									
8/26/2021				25.2			2.5	7.6	
8/27/2021	24.7								
9/1/2021									
9/3/2021									
9/27/2021									
2/8/2022									
2/9/2022	23.7	2.1	14.9						30.3
2/10/2022				24.8		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	1.3		8.9	28.7
9/1/2022									
2/7/2023		2.2	15	26.6					
2/8/2023	23.3				1.3	1.5			28.9
2/9/2023							2.8	9.6	
2/10/2023									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
6/1/2016									
6/2/2016									
6/6/2016	1.4	6.2							
6/7/2016			2.2	2.3	3.7	9.6			
6/8/2016							1.9		
7/25/2016									
7/26/2016									
7/27/2016	1.19	4.73	2	2.08					
7/28/2016					3.15	7.87			
8/1/2016							1.83		
8/30/2016								133	20.9
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	1.5		1.97						
9/19/2016		4.76		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	1.99		3.4				
11/4/2016									
11/8/2016						8.6	1.77		
11/14/2016									18.6
11/15/2016									
11/16/2016								125	
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	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 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
5/2/2017			1.95			12.9	1.57		
5/8/2017									14.6
5/9/2017									
5/10/2017								130	
5/26/2017									
6/27/2017									
6/28/2017	1.06	4.95							
6/29/2017			2.02	2.54	6.04				
6/30/2017									
7/7/2017							1.8		
7/10/2017						8.09			
7/11/2017								172	14.3
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017					8.28				
10/4/2017	1.1		2.03	2.25					
10/5/2017		5.28					1.7		
10/6/2017									
10/10/2017									12.1
10/11/2017						6.36			
10/12/2017								144	
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									<25
4/3/2018									
4/4/2018								137	
6/5/2018					9.1				
6/6/2018				2.3					
6/7/2018		4.8							
6/8/2018									
6/11/2018	1.4		2.1						
6/12/2018						4.7	1.8		
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									11.1 (J)
9/20/2018								108	
9/24/2018									
9/25/2018	1	4.6	2.1	2.3	10.4 (J)				
9/26/2018							1.7		
9/27/2018						4.1			
10/1/2018									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
10/2/2018									
2/25/2019									
3/26/2019									
3/27/2019								109	10.8 (J)
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			2.5		8.8				
4/3/2019	1.2	5.3		2.9					
4/4/2019						3.7	1.9		
6/12/2019									
9/24/2019					7.7				
9/25/2019			2.6	2.4					
9/26/2019	1.1	4.9					1.7		
9/27/2019						3.7			
10/8/2019									9.7
10/9/2019								92	
3/17/2020									14.8
3/18/2020									
3/19/2020									
3/24/2020	1	5.3	2.7	2.6	6				
3/25/2020								107	
3/26/2020						5.6	1.7		
9/22/2020									10.1
9/23/2020	0.91 (J)	5.2	2.6				2.4		
9/24/2020				2.6	7.8	7.9		84.3	
9/25/2020									
10/7/2020									
3/1/2021									10.3
3/2/2021									
3/3/2021	0.96 (J)	5.2	2.5	2.4			2.4		
3/4/2021					8.7	10.2		90.7	
8/19/2021									9.6
8/20/2021									
8/25/2021						10.6		79.9	
8/26/2021	0.98 (J)								
8/27/2021		5.1	2.7	2.4					
9/1/2021					9.5		2.3		
9/3/2021									
9/27/2021									
2/8/2022									9.4
2/9/2022	0.87 (J)	5.1	2.8	2.3	9.8				
2/10/2022						11.8	2.2	74.4	
2/11/2022									
8/30/2022	0.77 (J)	5.7	3		7.3				
8/31/2022				2.4					9.6
9/1/2022						11.2		68.5	
2/7/2023	0.79 (J)	5.5	2.9	2.4	7.5				
2/8/2023						10.9		74.6	9.2
2/9/2023									
2/10/2023							2.4		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWC-38	YGWA-40 (bg)
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 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWC-38	YGWA-40 (bg)
5/2/2017									
5/8/2017	14.2								
5/9/2017			14.4	13.9					
5/10/2017		7.9							
5/26/2017					26.2				
6/27/2017									
6/28/2017					26.1				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017		6.71							
7/13/2017			14.1	16.6					
7/17/2017	14.1								
9/22/2017				18.4					
9/29/2017				16.1					
10/3/2017					26.7				
10/4/2017									
10/5/2017									
10/6/2017				16.6					
10/10/2017									
10/11/2017			12.4	18.1		2.74			
10/12/2017		7.05					44.5	190	2.9
10/16/2017	13.6								
11/20/2017						1.81		184	10.4
11/21/2017							44.4		
1/10/2018									10.2
1/11/2018						1.54	43.9		
1/12/2018								178	
2/19/2018	<25						45.3		<25
2/20/2018						1.71		184	
4/2/2018									
4/3/2018						1.4	42.7	174	6.3
4/4/2018		8.6	<25						
6/5/2018									
6/6/2018									
6/7/2018					25				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				18.7 (J)					
6/27/2018							42.2		
6/28/2018						1.4		190	6.7
8/6/2018	11.4 (J)								
8/7/2018						1.2	40.7	176	6.3
9/19/2018									
9/20/2018		15.9 (J)	12 (J)						
9/24/2018						1.1	38.5	172	5.7
9/25/2018									
9/26/2018				19.8 (J)					
9/27/2018									
10/1/2018					25				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWC-38	YGWA-40 (bg)
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	27.6	133	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	29.6	124	
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					20.5	93.7	
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	16.4	87	4.6
8/19/2021									
8/20/2021	26.5								
8/25/2021									
8/26/2021						14.1	12.8	73.6	
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			12.9	59.4	
2/7/2023	22.3				25.6	16.1			
2/8/2023		11					14.4	55.3	5.9
2/9/2023			11.8	9.2					
2/10/2023									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-3D (bg)
6/1/2016	1.3	1.6	1.3						
6/2/2016				7.2	1.9	4.1	4.3	3.7	1.4
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	1.3	1.4			1.7				
7/26/2016			1.2	6.6		4	4.4	3.6	1.6
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016		1.3	1.1						
9/14/2016	1.3			6.6			3.8	3.4	
9/15/2016						4.2			1.5
9/16/2016									
9/19/2016					1.6				
9/20/2016									
11/1/2016	1.4		1.3		1.8				1.7
11/2/2016				7.6		4.9		4.5	
11/3/2016									
11/4/2016		1.6					4.8		
11/8/2016									
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017						4.1			
1/11/2017	1.1		1.1						1.2
1/12/2017				6.8			3.8		
1/13/2017								4.2	
1/16/2017		1.4			1.7				
1/17/2017									
2/21/2017					1.7				
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017	1.1								
3/2/2017		1.3	1						1.2
3/3/2017									
3/6/2017								3.6	
3/7/2017				6.8			4.5		
3/8/2017						4.2			
3/9/2017									
4/26/2017	1.1				1.7	4.1			1.2
4/27/2017		1.3	1						
4/28/2017									
5/1/2017				7.2				4.3	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-3D (bg)
5/2/2017							4.6		
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		1.4	1.1	7			4.3		
6/28/2017	1.2								1.3
6/29/2017								4.2	
6/30/2017					1.8	3.7			
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017		1.7	1.1	6.5			4.2		
10/4/2017	1.2				1.8				1.5
10/5/2017						3.8		4.7	
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018			1.1						
6/6/2018		1.4		4.7					
6/7/2018							4.5	4.4	1.2
6/8/2018	1.2					3.4			
6/11/2018					2				
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									
9/25/2018									
9/26/2018				4.8			5.1	4.8	
9/27/2018									
10/1/2018	1.2	1.4	1.1			3.8			1.5

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-3D (bg)
10/2/2018					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				1.7				1.2
4/2/2019									
4/3/2019				4			4.2	4.3	
4/4/2019									
6/12/2019									
9/24/2019		1.3	1.1	3.7			4.5		
9/25/2019	1.1				1.6	4.8		4.5	1.1
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		1.8				1.2
3/24/2020				3.5			4.3		
3/25/2020								3.9	
3/26/2020									
9/22/2020				3.6			4.2	4.5	
9/23/2020	1	1.2	0.99 (J)						1.1
9/24/2020					1.5				
9/25/2020						5.3			
10/7/2020									
3/1/2021					1.6				
3/2/2021				3.2		4.9	4.3		
3/3/2021	0.99 (J)	1.2	0.96 (J)					4.1	1.1
3/4/2021									
8/19/2021		1.3	1.1		1.6	5			1.1
8/20/2021									
8/25/2021									
8/26/2021				3.4			4.3	4.4	
8/27/2021	1.1								
9/1/2021									
9/3/2021									
9/27/2021									
2/8/2022									
2/9/2022	1.1	1.3	1						1.1
2/10/2022				3.2		4.7	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			1.8	4.6		4.4	1.3
9/1/2022									
2/7/2023		1.5	1.3	3.3					
2/8/2023	1.1				1.6	4.9			1.2
2/9/2023							5	4.5	
2/10/2023									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
6/1/2016									
6/2/2016									
6/6/2016	6.4	6.8							
6/7/2016			4.5	1.9	2.8	2.9			
6/8/2016							5.9		
7/25/2016									
7/26/2016									
7/27/2016	6.2	6.7	4.5	1.9					
7/28/2016					2.6	3.5			
8/1/2016							5.3		
8/30/2016								4.4	5.2
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	6.1		4.5						
9/19/2016		7		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	5.4		2.9				
11/4/2016									
11/8/2016						2.8	6.4		
11/14/2016									6.4
11/15/2016									
11/16/2016								4.7	
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	6.1	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 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
5/2/2017			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			4.5	2.6	2.8				
6/30/2017									
7/7/2017							5.7		
7/10/2017						1.9			
7/11/2017								4.7	5.8
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017					2.2				
10/4/2017	6.8		4.7	2.6					
10/5/2017		7					6		
10/6/2017									
10/10/2017									5.9
10/11/2017						2.4			
10/12/2017								4.3	
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									4.8
4/3/2018									
4/4/2018								3.7	
6/5/2018					1.7				
6/6/2018				2.7					
6/7/2018		6.8							
6/8/2018									
6/11/2018	6.8		4.9						
6/12/2018						1.8	6.2		
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									4
9/20/2018								3.8	
9/24/2018									
9/25/2018	7.8	7.9	5.6	3.6	2.2				
9/26/2018							6.9		
9/27/2018						2			
10/1/2018									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
10/2/2018									
2/25/2019									
3/26/2019									
3/27/2019								3.9	4.3
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			4.8		2.5				
4/3/2019	6.3	6.9		3.1					
4/4/2019						1.7	5.9		
6/12/2019									
9/24/2019					3.1				
9/25/2019			5.7	2.8					
9/26/2019	7.1	7					6.5		
9/27/2019						1.7			
10/8/2019									4.4
10/9/2019								4.1	
3/17/2020									4.1
3/18/2020									
3/19/2020									
3/24/2020	6.8	7	5	2.7	2.8				
3/25/2020								3.2	
3/26/2020						1.6	5.4		
9/22/2020									4.2
9/23/2020	7.2	7.2	6.6				9.3		
9/24/2020				2.7	2	2		3.3	
9/25/2020									
10/7/2020									
3/1/2021									3.7
3/2/2021									
3/3/2021	7.2	7	7.1	2.7			8.6		
3/4/2021					1.8	1.8		2.7	
8/19/2021									3.5
8/20/2021									
8/25/2021						2.5		3.4	
8/26/2021	7.3								
8/27/2021		7.4	8.5	2.8					
9/1/2021					1.8		8.9		
9/3/2021									
9/27/2021									
2/8/2022									3.2
2/9/2022	7	7.5	10.9	2.8	1.7				
2/10/2022						1.9	8.7	3.3	
2/11/2022									
8/30/2022	7	7.9	12		2.4				
8/31/2022				2.9					3.5
9/1/2022						2		3.3	
2/7/2023	6.4	7.4	11.4	2.9	2.4				
2/8/2023						2		3.4	3.5
2/9/2023									
2/10/2023							9.1		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWC-38	YGWA-40 (bg)
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 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWC-38	YGWA-40 (bg)
5/2/2017									
5/8/2017	4.2								
5/9/2017			5.3	5.7					
5/10/2017		1.2							
5/26/2017					0.93				
6/27/2017									
6/28/2017					1				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017		1.5							
7/13/2017			4.7	5.4					
7/17/2017	3.8								
9/22/2017				6.9					
9/29/2017				5.5					
10/3/2017					1.2				
10/4/2017									
10/5/2017									
10/6/2017				5.5					
10/10/2017									
10/11/2017			5.8	6.4		2.4			
10/12/2017		1.6					3.1	6	3.8
10/16/2017	4.2								
11/20/2017						1.8		6.9	4.4
11/21/2017							4.2		
1/10/2018									4.6
1/11/2018						1.6	3.8		
1/12/2018								6.6	
2/19/2018	4.3						3.5		4.6
2/20/2018						2		6.2	
4/2/2018									
4/3/2018						3.3	4.4	6.9	5.9
4/4/2018		1.8	4.3						
6/5/2018									
6/6/2018									
6/7/2018					1				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				5.6					
6/27/2018							3.6		
6/28/2018						2.1		6.4	5
8/6/2018	3.8								
8/7/2018						1.2	3.3	5.5	4.3
9/19/2018									
9/20/2018		1.9	4.8						
9/24/2018						1.3	3.3	5.9	4.9
9/25/2018									
9/26/2018				6					
9/27/2018									
10/1/2018					1.1				

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWC-38	YGWA-40 (bg)
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	3.3	5	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	2.7	4	
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					3	4	
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	3.4	3.9	4.9
8/19/2021									
8/20/2021	5.2								
8/25/2021									
8/26/2021						7.2	3.6	4.1	
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			3.8	4.2	
2/7/2023	6.1				1.1	5.6			
2/8/2023		2.4					4	3.9	6.9
2/9/2023			4.4	5.9					
2/10/2023									

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016	0.15 (J)	<0.1	0.12 (J)						
6/2/2016				<0.1	<0.1	0.11 (J)	<0.1	<0.1	0.62
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	0.14 (J)	0.06 (J)						0.06 (J)	
7/26/2016			0.08 (J)	0.02 (J)	<0.1	0.05 (J)	<0.1		0.49
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016		<0.1	0.11 (J)						
9/14/2016	0.18 (J)				<0.1	0.04 (J)	<0.1		
9/15/2016				<0.1					0.54
9/16/2016									
9/19/2016								<0.1	
9/20/2016									
11/1/2016	<0.1		<0.1					<0.1	0.68
11/2/2016				<0.1		<0.1	<0.1		
11/3/2016									
11/4/2016		<0.1			<0.1				
11/8/2016									
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017				<0.1					
1/11/2017	0.09 (J)		0.05 (J)						0.49
1/12/2017					<0.1	0.04 (J)			
1/13/2017							<0.1		
1/16/2017		<0.1						<0.1	
1/17/2017									
2/21/2017								<0.1	
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017	<0.1								
3/2/2017		<0.1	<0.1						0.48
3/3/2017									
3/6/2017							<0.1		
3/7/2017					<0.1	<0.1			
3/8/2017				<0.1					
3/9/2017									
4/26/2017	0.08 (J)			<0.1				<0.1	0.48
4/27/2017		0.01 (J)	0.04 (J)						
4/28/2017									
5/1/2017						<0.1	<0.1		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/2/2017					<0.1				
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		<0.1	<0.1		<0.1	<0.1			
6/28/2017	0.12 (J)								0.47
6/29/2017							<0.1		
6/30/2017				<0.1				<0.1	
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017		<0.1	<0.1		<0.1	<0.1			
10/4/2017	<0.1							<0.1	<0.1
10/5/2017				<0.1			<0.1		
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
3/27/2018		<0.1		<0.1				<0.1	
3/28/2018	<0.1								0.56
3/29/2018			<0.1		<0.1	<0.1	<0.1		
3/30/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018			0.055 (J)						
6/6/2018		<0.1				0.15 (J)			
6/7/2018					<0.1		<0.1		0.48
6/8/2018	0.2 (J)			<0.1					
6/11/2018								<0.1	
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
9/25/2018									
9/26/2018					<0.1	<0.1	<0.1		
9/27/2018									
10/1/2018	<0.1	<0.1	<0.1	<0.1					0.44
10/2/2018								<0.1	
2/25/2019									
2/26/2019				<0.1				<0.1	
2/27/2019	0.13 (J)	<0.1	0.052 (J)						0.53
3/4/2019					<0.1	0.19 (J)	<0.1		
3/5/2019									
3/6/2019									
3/26/2019									
3/27/2019									
3/28/2019		<0.1	0.036 (J)						
3/29/2019				<0.1					
4/1/2019	0.1 (J)							<0.1	0.45
4/2/2019									
4/3/2019					<0.1	0.047 (J)	<0.1		
4/4/2019									
6/12/2019									
8/19/2019									
8/20/2019									
8/21/2019									
8/22/2019									
9/24/2019		<0.1	0.063 (J)		<0.1	0.05 (J)			
9/25/2019	0.1 (J)			<0.1			<0.1	<0.1	0.46
9/26/2019									
9/27/2019									
10/8/2019									
10/9/2019									
2/10/2020		<0.1	0.061 (J)						
2/11/2020	0.094 (J)								
2/12/2020				<0.1	<0.1	<0.1	<0.1	<0.1	0.4
3/17/2020									
3/18/2020		<0.1		<0.1					
3/19/2020	0.11 (J)		0.064 (J)					<0.1	0.51
3/24/2020					<0.1	<0.1			
3/25/2020							<0.1		
3/26/2020									
8/26/2020									
8/27/2020									
9/22/2020					<0.1	0.056 (J)	<0.1		
9/23/2020	0.098 (J)	<0.1	0.058 (J)						0.47
9/24/2020								<0.1	
9/25/2020				<0.1					
10/7/2020									
2/8/2021					<0.1	0.055 (J)			
2/9/2021							<0.1		
2/10/2021	<0.1			<0.1					0.43
2/11/2021								<0.1	
2/12/2021		<0.1	0.068 (J)						
3/1/2021								<0.1	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
3/2/2021				<0.1	<0.1	<0.1			
3/3/2021	0.1	<0.1	0.078 (J)				<0.1		0.44
3/4/2021									
8/19/2021		<0.1	0.074 (J)	<0.1				<0.1	0.47
8/20/2021									
8/25/2021									
8/26/2021					<0.1	0.061 (J)	<0.1		
8/27/2021	0.12								
9/1/2021									
9/3/2021									
9/27/2021									
2/8/2022									
2/9/2022	0.097 (J)	<0.1	0.057 (J)						0.43
2/10/2022				<0.1	<0.1	0.055 (J)			
2/11/2022							<0.1	<0.1	
8/30/2022			0.093 (J)		<0.1	0.085 (J)			
8/31/2022	0.13	0.065 (J)		0.053 (J)			0.061 (J)	0.06 (J)	0.42
9/1/2022									
2/7/2023		0.071 (J)	0.093 (J)			0.082 (J)			
2/8/2023	0.16			0.059 (J)				0.064 (J)	0.56
2/9/2023					<0.1		0.067 (J)		
2/10/2023									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWC-23S	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-24SB	YGWA-47 (bg)	YGWC-42
6/1/2016									
6/2/2016									
6/6/2016	<0.1	<0.1							
6/7/2016			<0.1	<0.1	<0.1	<0.1			
6/8/2016							<0.1		
7/25/2016									
7/26/2016									
7/27/2016	<0.1	<0.1	<0.1			<0.1			
7/28/2016				0.03 (J)	0.02 (J)				
8/1/2016							<0.1		
8/30/2016								0.09 (J)	0.02 (J)
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		<0.1				<0.1			
9/19/2016	<0.1		<0.1		0.02 (J)				
9/20/2016				<0.1			<0.1		
11/1/2016									
11/2/2016			<0.1						
11/3/2016	<0.1	<0.1			<0.1	<0.1			
11/4/2016									
11/8/2016				<0.1			<0.1		
11/14/2016								0.18 (J)	
11/15/2016									
11/16/2016									0.07 (J)
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	<0.1	<0.1				<0.1			
1/12/2017									
1/13/2017			<0.1		<0.1				
1/16/2017				<0.1					
1/17/2017							<0.1		
2/21/2017									
2/22/2017									
2/24/2017								0.05 (J)	
2/27/2017									0.06 (J)
2/28/2017									
3/1/2017	<0.1	<0.1							
3/2/2017						<0.1			
3/3/2017									
3/6/2017			<0.1		<0.1				
3/7/2017									
3/8/2017							<0.1		
3/9/2017				<0.1					
4/26/2017	<0.1	<0.1	<0.1		0.04 (J)				
4/27/2017									
4/28/2017									
5/1/2017									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWC-23S	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-24SB	YGWA-47 (bg)	YGWC-42
5/2/2017				<0.1		<0.1	<0.1		
5/8/2017								0.03 (J)	
5/9/2017									
5/10/2017									<0.1
5/26/2017									
6/27/2017									
6/28/2017	<0.1	<0.1							
6/29/2017			<0.1		<0.1	<0.1			
6/30/2017									
7/7/2017							<0.1		
7/10/2017				<0.1					
7/11/2017								0.07 (J)	<0.1
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017					<0.1				
10/4/2017		<0.1	<0.1			<0.1			
10/5/2017	<0.1						<0.1		
10/6/2017									
10/10/2017								<0.1	
10/11/2017				<0.1					
10/12/2017									<0.1
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
3/27/2018									
3/28/2018	<0.1	<0.1				<0.1			
3/29/2018			<0.1		<0.1				
3/30/2018				<0.1			<0.1		
4/2/2018								<0.1	
4/3/2018									
4/4/2018									<0.1
6/5/2018					0.13 (J)				
6/6/2018			<0.1						
6/7/2018	<0.1								
6/8/2018									
6/11/2018		<0.1				<0.1			
6/12/2018				<0.1			<0.1		
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018								<0.1	
9/20/2018									0.041 (J)
9/24/2018									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWC-23S	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-24SB	YGWA-47 (bg)	YGWC-42
9/25/2018	<0.1	<0.1	<0.1		0 (J)	<0.1			
9/26/2018							<0.1		
9/27/2018				<0.1					
10/1/2018									
10/2/2018									
2/25/2019									
2/26/2019									
2/27/2019									
3/4/2019									
3/5/2019		<0.1	<0.1		0.32	<0.1	<0.1		
3/6/2019	<0.1			<0.1					
3/26/2019									
3/27/2019								0.081 (J)	<0.1
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019					0.12 (J)	<0.1			
4/3/2019	<0.1	<0.1	<0.1						
4/4/2019				0.049 (J)			0.033 (J)		
6/12/2019									
8/19/2019									
8/20/2019								<0.1	
8/21/2019									
8/22/2019									<0.1
9/24/2019					0.15 (J)				
9/25/2019			<0.1			<0.1			
9/26/2019	<0.1	<0.1					0.098 (J)		
9/27/2019				0.12 (J)					
10/8/2019								0.034 (J)	
10/9/2019									<0.1
2/10/2020									
2/11/2020	<0.1	<0.1				<0.1			
2/12/2020			<0.1		0.1 (J)				
3/17/2020								<0.1	
3/18/2020									
3/19/2020									
3/24/2020	<0.1	<0.1	<0.1		0.081 (J)	<0.1			
3/25/2020									<0.1
3/26/2020				<0.1			<0.1		
8/26/2020									
8/27/2020								<0.1	
9/22/2020								<0.1	
9/23/2020	<0.1	<0.1				<0.1	<0.1		
9/24/2020			<0.1	<0.1	0.079 (J)				<0.1
9/25/2020									
10/7/2020									
2/8/2021									
2/9/2021	<0.1	<0.1	<0.1	<0.1	0.092 (J)		<0.1		
2/10/2021									<0.1
2/11/2021									
2/12/2021									
3/1/2021								<0.1	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWC-23S	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-24SB	YGWA-47 (bg)	YGWC-42
3/2/2021									
3/3/2021	<0.1	<0.1	<0.1			<0.1	<0.1		
3/4/2021				<0.1	0.091 (J)				<0.1
8/19/2021								<0.1	
8/20/2021									
8/25/2021				<0.1					<0.1
8/26/2021		<0.1							
8/27/2021	<0.1		<0.1			<0.1			
9/1/2021					0.11		<0.1		
9/3/2021									
9/27/2021									
2/8/2022								<0.1	
2/9/2022	<0.1	<0.1	<0.1		0.1	<0.1			
2/10/2022				<0.1			<0.1		<0.1
2/11/2022									
8/30/2022	<0.1	<0.1			0.1	<0.1			
8/31/2022			<0.1					0.065 (J)	
9/1/2022				0.057 (J)					0.053 (J)
2/7/2023	<0.1	<0.1	<0.1		0.1	<0.1			
2/8/2023				<0.1				0.077 (J)	0.08 (J)
2/9/2023									
2/10/2023							0.051 (J)		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016									
7/26/2016									
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016	0.12 (J)	0.14 (J)							
9/1/2016			0.09 (J)						
9/2/2016				0.05 (J)					
9/13/2016									
9/14/2016					0.08 (J)				
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016					<0.1				
11/8/2016									
11/14/2016				0.18 (J)					
11/15/2016			0.16 (J)						
11/16/2016	0.2 (J)								
11/28/2016		0.12 (J)							
12/15/2016					0.06 (J)				
1/10/2017									
1/11/2017									
1/12/2017									
1/13/2017									
1/16/2017					0.1 (J)				
1/17/2017									
2/21/2017									
2/22/2017		0.09 (J)							
2/24/2017	0.21 (J)								
2/27/2017			0.06 (J)						
2/28/2017				0.09 (J)					
3/1/2017									
3/2/2017									
3/3/2017					<0.1				
3/6/2017									
3/7/2017									
3/8/2017									
3/9/2017									
4/26/2017									
4/27/2017									
4/28/2017					0.06 (J)				
5/1/2017									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
5/2/2017									
5/8/2017		0.05 (J)							
5/9/2017			0.05 (J)	0.009 (J)					
5/10/2017	0.04 (J)								
5/26/2017					0.09 (J)				
6/27/2017									
6/28/2017					0.11 (J)				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017	0.2 (J)								
7/13/2017			<0.1	<0.1					
7/17/2017		0.14 (J)							
9/22/2017				0.09 (J)					
9/29/2017				<0.1					
10/3/2017					<0.1				
10/4/2017									
10/5/2017									
10/6/2017				<0.1					
10/10/2017									
10/11/2017			0.14 (J)	<0.1		<0.1			
10/12/2017	0.1 (J)						<0.1	<0.1	<0.1
10/16/2017		0.12 (J)							
11/20/2017						<0.1	0.2 (J)		<0.1
11/21/2017								<0.1	
1/10/2018									<0.1
1/11/2018						<0.1		<0.1	
1/12/2018							0.21 (J)		
2/19/2018		0.17						<0.1	<0.1
2/20/2018						0.23	<0.1		
3/27/2018									
3/28/2018					0.31				
3/29/2018									
3/30/2018				<0.1					
4/2/2018									
4/3/2018						<0.1	0.41	<0.1	<0.1
4/4/2018	<0.1		<0.1						
6/5/2018									
6/6/2018									
6/7/2018					0.11 (J)				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				<0.1					
6/27/2018								<0.1	
6/28/2018						<0.1	0.43		<0.1
8/6/2018		0.087 (J)							
8/7/2018						0.048 (J)	<0.1	0.11 (J)	<0.1
9/19/2018									
9/20/2018	<0.1		<0.1						
9/24/2018						<0.1	0.034 (J)	<0.1	<0.1

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
9/25/2018									
9/26/2018				<0.1					
9/27/2018									
10/1/2018					<0.1				
10/2/2018									
2/25/2019		0.14 (J)							
2/26/2019									
2/27/2019					0.12 (J)				
3/4/2019									
3/5/2019									
3/6/2019				<0.1					
3/26/2019									<0.1
3/27/2019						<0.1	0.24 (J)		
3/28/2019	0.078 (J)		<0.1					0.1 (J)	
3/29/2019					0.13 (J)				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				0.043 (J)					
6/12/2019		0.12 (J)							
8/19/2019		<0.1							
8/20/2019									
8/21/2019	0.062 (J)					<0.1			<0.1
8/22/2019							<0.1	<0.1	
9/24/2019					0.081 (J)				
9/25/2019									
9/26/2019			0.09 (J)	0.094 (J)					
9/27/2019									
10/8/2019		0.052 (J)							
10/9/2019	<0.1					<0.1	<0.1	<0.1	<0.1
2/10/2020									
2/11/2020					0.075 (J)				
2/12/2020						<0.1			<0.1
3/17/2020		0.053 (J)							
3/18/2020									
3/19/2020					0.093 (J)				
3/24/2020									<0.1
3/25/2020	0.073 (J)		<0.1	<0.1		<0.1	<0.1	<0.1	
3/26/2020									
8/26/2020		0.068 (J)							
8/27/2020									
9/22/2020		0.058 (J)							
9/23/2020					0.08 (J)				
9/24/2020			<0.1			<0.1			<0.1
9/25/2020	<0.1						<0.1	<0.1	
10/7/2020				<0.1					
2/8/2021									
2/9/2021	0.058 (J)		<0.1				<0.1		
2/10/2021				<0.1	0.094 (J)	<0.1		<0.1	<0.1
2/11/2021									
2/12/2021									
3/1/2021									

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
3/2/2021		0.073 (J)							
3/3/2021					0.085 (J)				
3/4/2021	0.063 (J)		<0.1	<0.1		<0.1	<0.1	<0.1	<0.1
8/19/2021									
8/20/2021		0.06 (J)							
8/25/2021									
8/26/2021						0.063 (J)	<0.1	<0.1	
8/27/2021					0.12				
9/1/2021			<0.1						
9/3/2021				<0.1					<0.1
9/27/2021	0.1								
2/8/2022	0.066 (J)	0.064 (J)	<0.1			0.052 (J)		<0.1	<0.1
2/9/2022					0.094 (J)				
2/10/2022							<0.1		
2/11/2022				<0.1					
8/30/2022		0.086 (J)			0.12				
8/31/2022			<0.1			0.065 (J)			0.05 (J)
9/1/2022	0.091 (J)			<0.1			<0.1	<0.1	
2/7/2023		0.095 (J)			0.12	0.076 (J)			
2/8/2023	0.11						<0.1	<0.1	<0.1
2/9/2023			<0.1	<0.1					
2/10/2023									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: pH (S.U.) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)
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		7.72	7.46	6.33					
6/2/2016					5.75	5.46	5.75	7.67	6.36
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016		7.74		6.21	5.82				
7/26/2016			7.43			5.45	5.72	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						5.45			
9/16/2016									
9/19/2016					5.78 (D)				
9/20/2016									
11/1/2016		7.7	7.24		5.62				
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		7.53	7.3						
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 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)
2/27/2017									
2/28/2017									
3/1/2017		7.42							
3/2/2017			7.23	6.28					
3/3/2017									
3/6/2017									6.2
3/7/2017							5.66	7.43	
3/8/2017						5.41			
3/9/2017									
4/26/2017		7.4			5.56	5.02			
4/27/2017			6.99	6.09					
4/28/2017									
5/1/2017								7.22	6.21
5/2/2017							5.65		
5/8/2017	6.12								
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017			6.87	6.21			5.7	7.32	
6/28/2017		7.5							
6/29/2017									6.21
6/30/2017					5.72	5.39			
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017	6.03								
9/22/2017									
9/29/2017									
10/3/2017			6.81	5.98			5.79	7.48	
10/4/2017		7.45			5.87				
10/5/2017						5.49			6.16
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017	6.12								
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018	6.13								
2/20/2018									
3/27/2018				6.25	5.83	5.47			
3/28/2018		7.74							
3/29/2018			7.38				5.63	7.02	6.09
3/30/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018			7.16						

Prediction Limit

Constituent: pH (S.U.) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)
6/6/2018				6.17				7.43	
6/7/2018							5.63		6.12
6/8/2018		7.64				5.45			
6/11/2018					5.69				
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018	6.01								
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									
9/25/2018									
9/26/2018							5.63	7.13	5.84
9/27/2018									
10/1/2018		7.47	6.8	5.9		5.39			
10/2/2018					5.39				
2/25/2019	6.51								
2/26/2019					5.77	5.46			
2/27/2019		7.54	6.84	5.8					
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			5.62				
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	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					5.8	5.48	5.83	7.52	6.15
3/17/2020	6.14								
3/18/2020				6.19		5.38			
3/19/2020		7.31	7.03		6				
3/24/2020							5.81	7.34	
3/25/2020									6.26
3/26/2020									

Prediction Limit

Constituent: pH (S.U.) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)
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		7.37	7.15	6.01					
9/24/2020					5.67				
9/25/2020						5.44			
10/7/2020									
2/8/2021							5.67		
2/9/2021									6.06
2/10/2021		7.58				5.35			
2/11/2021					5.73				
2/12/2021			7.14	6.21					
3/1/2021					5.78				
3/2/2021	5.42					5.49	5.63	7.15	
3/3/2021		8.23	7.2	5.38					6.21
3/4/2021									
8/19/2021			6.32	6.38		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		7.66	7.12	6.24					
2/10/2022						4.5	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	5.15			5.5
9/1/2022									
2/7/2023	5.94		7.86	6.53				6.64	
2/8/2023		7.73			6.43	5.39			
2/9/2023							5.9		6.23
2/10/2023									

Prediction Limit

Constituent: pH (S.U.) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWC-23S	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWC-24SB	YGWC-42
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	7.84								
6/6/2016		5.71	6.17						
6/7/2016				5.57	6.1	5.62	5.77		
6/8/2016								5.65	
7/25/2016									
7/26/2016	7.88								
7/27/2016		5.46	6.14			5.59	5.79		
7/28/2016				5.6	6.12				
8/1/2016								5.47	
8/30/2016									5.64
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016									
9/14/2016									
9/15/2016	7.74								
9/16/2016						5.58			
9/19/2016		5.59	6.04		6.12		5.73		
9/20/2016				5.53				5.61	
11/1/2016	7.75								
11/2/2016							5.67		
11/3/2016		5.39	5.97		6.07	5.59			
11/4/2016									
11/8/2016				5.53				5.55	
11/14/2016									
11/15/2016									
11/16/2016									6.21
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	7.66	5.48	6.05			5.59			
1/12/2017									
1/13/2017					6.41		5.79		
1/16/2017				5.59					
1/17/2017								5.53	
2/21/2017									
2/22/2017									
2/24/2017									

Prediction Limit

Constituent: pH (S.U.) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWC-23S	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWC-24SB	YGWC-42
2/27/2017									6.09
2/28/2017									
3/1/2017		5.41	5.94						
3/2/2017	7.68					5.54			
3/3/2017									
3/6/2017					6.34		5.63		
3/7/2017									
3/8/2017								5.62	
3/9/2017				5.56					
4/26/2017	7.45	5.4	5.99		6.32		5.66		
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017				5.61		5.47		5.46	
5/8/2017									
5/9/2017									
5/10/2017									5.79
5/26/2017									
6/27/2017									
6/28/2017	7.65	5.36	6						
6/29/2017					6.47	5.56	5.85		
6/30/2017									
7/7/2017								5.81	
7/10/2017				5.68					
7/11/2017									5.45
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017					6.56				
10/4/2017	7.49	5.32				5.57	5.83		
10/5/2017			6.11					5.45	
10/6/2017									
10/10/2017									
10/11/2017				5.46					
10/12/2017									5.48
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
3/27/2018									
3/28/2018	7.91	5.34	6.1			5.59			
3/29/2018					6.75		5.93		
3/30/2018				5.73				5.64	
4/2/2018									
4/3/2018									
4/4/2018									5.93
6/5/2018					6.09				

Prediction Limit

Constituent: pH (S.U.) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWC-23S	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWC-24SB	YGWC-42
6/6/2018							5.86		
6/7/2018	7.69		5.98						
6/8/2018									
6/11/2018		5.28				5.58			
6/12/2018				5.63				5.64	
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/20/2018									5.63
9/24/2018									
9/25/2018		4.86	5.81		6.67	5.59	5.84		
9/26/2018								5.61	
9/27/2018				5.47					
10/1/2018	7.39								
10/2/2018									
2/25/2019									
2/26/2019									
2/27/2019	7.55								
3/4/2019									
3/5/2019		5.26			7.22	5.48	6.07	5.72	
3/6/2019			5.99	5.84					
3/26/2019									
3/27/2019									5.57
3/28/2019									
3/29/2019									
4/1/2019	7.87								
4/2/2019					6.94	5.74			
4/3/2019		5.47	6.29				5.71		
4/4/2019				5.64				5.66	
6/12/2019									
8/19/2019									
8/20/2019									
8/21/2019									
8/22/2019									5.61
9/24/2019					6.87				
9/25/2019	7.64					5.49	5.86		
9/26/2019		5.2	6.04					5.52	
9/27/2019				5.77					
10/8/2019									
10/9/2019									5.5
2/10/2020									
2/11/2020		5.3	6.07			5.58			
2/12/2020	7.83				7.13		6		
3/17/2020									
3/18/2020									
3/19/2020	7.65								
3/24/2020		5.33	5.98		6.35	5.57	5.86		
3/25/2020									5.53
3/26/2020				5.69				5.51	

Prediction Limit

Constituent: pH (S.U.) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWC-23S	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWC-24SB	YGWC-42
5/6/2020									
8/26/2020									
8/27/2020									
9/22/2020									
9/23/2020	7.57	5.29 (D)	6.01 (D)			5.58 (D)		5.64	
9/24/2020				5.51	6.7 (D)		5.8 (D)		5.55
9/25/2020									
10/7/2020									
2/8/2021									
2/9/2021		5.43	6.12	5.61	6.95		5.86	5.69	
2/10/2021	7.81								5.65
2/11/2021									
2/12/2021									
3/1/2021									
3/2/2021									
3/3/2021	8.39	5.31	5.89			5.52	5.89	5.7	
3/4/2021				5.44	6.8				5.59
8/19/2021	5.34								
8/20/2021									
8/25/2021				5.46					6.73
8/26/2021		4.4							
8/27/2021			5.4			5.27	5.57		
9/1/2021					6.65			5.22	
9/3/2021									
9/27/2021									
2/8/2022									
2/9/2022	7.97	5.28	5.98		6.84	5.53	5.91		
2/10/2022				5.51				4.66	5.57
2/11/2022									
8/30/2022		5.18	5.82		6.58	4.68			
8/31/2022	7.65						5.38		
9/1/2022				5.27					5.49
2/7/2023		5.03	6		6.82	5.47	5.63		
2/8/2023	7.88			5.33					5.48
2/9/2023									
2/10/2023								5.67	

Prediction Limit

Constituent: pH (S.U.) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-47 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWA-40 (bg)	YGWC-41
8/27/2008									
3/3/2009									
11/18/2009									
3/3/2010									
3/10/2011									
9/8/2011									
3/5/2012									
9/10/2012									
2/6/2013									
8/12/2013									
2/5/2014									
8/3/2015									
2/16/2016									
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016									
7/26/2016									
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016	5.75								
8/31/2016		7.27							
9/1/2016			5.78						
9/2/2016				5.84					
9/13/2016					7.41				
9/14/2016									
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016					7.12				
11/8/2016									
11/14/2016	5.59			6.28					
11/15/2016			5.81						
11/16/2016		6.79							
11/28/2016									
12/15/2016					7.24				
1/10/2017									
1/11/2017									
1/12/2017									
1/13/2017									
1/16/2017					7.24				
1/17/2017									
2/21/2017									
2/22/2017									
2/24/2017	5.49	6.39							

Prediction Limit

Constituent: pH (S.U.) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-47 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWA-40 (bg)	YGWC-41
2/27/2017			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	5.58								
5/9/2017			6.18	6.3					
5/10/2017		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	5.58	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	5.49								
10/11/2017			5.61	5.47		6.4			
10/12/2017		5.97					4.85	5.43	4.94
10/16/2017									
11/20/2017						6.33	4.87	5.1	
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	6.3 (O)								
4/3/2018						6.87	4.76	5.84	5.31
4/4/2018		6.41	5.98						
6/5/2018									

Prediction Limit

Constituent: pH (S.U.) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-47 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWA-40 (bg)	YGWC-41
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	4.75	5.24	
8/6/2018									
8/7/2018						6.08	4.72	5.18	4.77
9/19/2018	5.48								
9/20/2018		5.69	5.67						
9/24/2018						5.81	4.67	5.14	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	5.83					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	5.58								
8/21/2019		5.84				5.96		5.26	
8/22/2019							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	5.59								
10/9/2019		5.78				5.81	4.8	5.22	4.86
2/10/2020									
2/11/2020					7.38				
2/12/2020						5.97		5.3	
3/17/2020	5.57								
3/18/2020									
3/19/2020					7.22				
3/24/2020								5.29	
3/25/2020		5.79	5.69	5.49		5.78	4.89		4.87
3/26/2020									

Prediction Limit

Constituent: pH (S.U.) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-47 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWA-40 (bg)	YGWC-41
5/6/2020									
8/26/2020									
8/27/2020	4.88								
9/22/2020	5.46								
9/23/2020					7.22				
9/24/2020			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				6.31	7.29	5.8		5.19	4.98
2/11/2021									
2/12/2021									
3/1/2021	5.48								
3/2/2021									
3/3/2021					7.92				
3/4/2021		5.88	5.88	5.67		5.54	5.01	5.23	4.69
8/19/2021	5.5								
8/20/2021									
8/25/2021									
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	5.4	5.82 (D)	5.79 (D)			5.78		5.26	5.07 (D)
2/9/2022					5.89				
2/10/2022							4.85		
2/11/2022				5.58					
8/30/2022					7.04				
8/31/2022	5.32		5.34			5.3		4.53	
9/1/2022		5.62		5.18			4.91		4.43
2/7/2023					6.94	5.49			
2/8/2023	5.22	5.4					5.16	5.71	4.69
2/9/2023			5.61	5.67					
2/10/2023									

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-3D (bg)
6/1/2016	12	4.2	5						
6/2/2016				20	1.3	6.6	1.9	8	5.8
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	8.4	3.7			1.2				
7/26/2016			5.4	20		6.1	1.8	7.7	6.7
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016		5.2	2.9						
9/14/2016	8.6			19			1.8	7.5	
9/15/2016						6.1			6
9/16/2016									
9/19/2016					1.2				
9/20/2016									
11/1/2016	8.9		3.9		1.3				4.9
11/2/2016				20		6.3		8.2	
11/3/2016									
11/4/2016		5					2		
11/8/2016									
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017						5.9			
1/11/2017	8.6		3.7						4.5
1/12/2017				19			1.9		
1/13/2017								8.1	
1/16/2017		7.9			<1				
1/17/2017									
2/21/2017					1.4				
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017	9.3								
3/2/2017		7.4	4.6						4.4
3/3/2017									
3/6/2017								8	
3/7/2017				20			2.1		
3/8/2017						7			
3/9/2017									
4/26/2017	11				1.4	7			5.1
4/27/2017		7.4	5.2						
4/28/2017									
5/1/2017				20				8.4	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-3D (bg)
5/2/2017							2		
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		6.4	5.9	18			2.1		
6/28/2017	12								5.4
6/29/2017								9.2	
6/30/2017					<1	6.5			
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017		5.9	6.6	16			2.3		
10/4/2017	12				1.4				6.2
10/5/2017						7.9		9.6	
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018			6.4						
6/6/2018		4.4		8.3					
6/7/2018							2	8.5	6.7
6/8/2018	9.6					6.4			
6/11/2018					1.1				
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									
9/25/2018									
9/26/2018				7.9			2.3	10.2	
9/27/2018									
10/1/2018	9.1	4	5.6			6.8			7.1

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-3D (bg)
10/2/2018					1				
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019		4.3	8						
3/29/2019						7.3			
4/1/2019	8.5				0.96 (J)				7.2
4/2/2019									
4/3/2019				7			2.1	8.5	
4/4/2019									
6/12/2019									
9/24/2019		4.3	5.3	5.5			2.4		
9/25/2019	13.8				0.81 (J)	6.6		8.5	7
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		1.6				9
3/24/2020				5.9			2.1		
3/25/2020								8.8	
3/26/2020									
9/22/2020				5.5			2.1	8.2	
9/23/2020	16.8	3.4	8.1						6.9
9/24/2020					0.69 (J)				
9/25/2020						6.1			
10/7/2020									
3/1/2021					0.88 (J)				
3/2/2021				2.6		6	2.3		
3/3/2021	9.6	4.4	9					7.8	7
3/4/2021									
8/19/2021		4.9	8.9		1	6.7			7.5
8/20/2021									
8/25/2021									
8/26/2021				6			2.4	8.5	
8/27/2021	18.2								
9/1/2021									
9/3/2021									
9/27/2021									
2/8/2022									
2/9/2022	16	5.1	9.3						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			1.1	5.8		8	6.9
9/1/2022									
2/7/2023		6.6	10.6	5.2					
2/8/2023	14.7				0.96 (J)	6.1			7.5
2/9/2023							2.9	8.9	
2/10/2023									

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
6/1/2016									
6/2/2016									
6/6/2016	1.8	1.2							
6/7/2016			4.4	<1	5.2	56			
6/8/2016							<1		
7/25/2016									
7/26/2016									
7/27/2016	1.9	1.7	4.7	0.08 (J)					
7/28/2016					5.1	57			
8/1/2016							1.1		
8/30/2016								980	160
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	1.7		4.8						
9/19/2016		1.8		0.08 (J)	4.8				
9/20/2016						68	0.38 (J)		
11/1/2016									
11/2/2016				0.1 (J)					
11/3/2016	1.9	0.69 (J)	5.3		5				
11/4/2016									
11/8/2016						79	0.39 (J)		
11/14/2016									150
11/15/2016									
11/16/2016								940	
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	1.7	<1	5.2						
1/12/2017									
1/13/2017				<1	4.3				
1/16/2017						72			
1/17/2017							<1		
2/21/2017									
2/22/2017									
2/24/2017									120
2/27/2017								940	
2/28/2017									
3/1/2017	<1	1.8							
3/2/2017			5						
3/3/2017									
3/6/2017				<1	4.5				
3/7/2017									
3/8/2017							0.29 (J)		
3/9/2017						69			
4/26/2017	1.9	1.6		<1	4.9				
4/27/2017									
4/28/2017									
5/1/2017									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
5/2/2017			5			60	0.29 (J)		
5/8/2017									120
5/9/2017									
5/10/2017								1200	
5/26/2017									
6/27/2017									
6/28/2017	<1	<1							
6/29/2017			5.2	<1	5.5				
6/30/2017									
7/7/2017							0.37 (J)		
7/10/2017						57			
7/11/2017								1300	110
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017					5.8				
10/4/2017	1.7		5.3	<1					
10/5/2017		1.6					<1		
10/6/2017									
10/10/2017									93
10/11/2017						52			
10/12/2017								1100	
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									88.8
4/3/2018									
4/4/2018								1020	
6/5/2018					6.1				
6/6/2018				0.049 (J)					
6/7/2018		0.68 (J)							
6/8/2018									
6/11/2018	0.95 (J)		5.2						
6/12/2018						41.4	0.35 (J)		
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									75
9/20/2018								810	
9/24/2018									
9/25/2018	1.5	1	6.1	0.13 (J)	7				
9/26/2018							0.28 (J)		
9/27/2018						39.6			
10/1/2018									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
10/2/2018									
2/25/2019									
3/26/2019									
3/27/2019								831	65.9
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			5.1		3.8				
4/3/2019	1.3	0.82 (J)		0.12 (J)					
4/4/2019						27.9	0.29 (J)		
6/12/2019									
9/24/2019					1				
9/25/2019			5.5	<1					
9/26/2019	1	0.64 (J)					0.23 (J)		
9/27/2019						30.3			
10/8/2019									52.3
10/9/2019								725	
3/17/2020									71.6
3/18/2020									
3/19/2020									
3/24/2020	0.99 (J)	<1	5.4	<1	3				
3/25/2020								642	
3/26/2020						36.5	<1		
9/22/2020									51.5
9/23/2020	1.1	0.53 (J)	5.1				<1		
9/24/2020				<1	3.6	52.5		579	
9/25/2020									
10/7/2020									
3/1/2021									51.6
3/2/2021									
3/3/2021	1	<1	5.2	<1			<1		
3/4/2021					4.5	61.7 (M1)		537	
8/19/2021									52.6
8/20/2021									
8/25/2021						68		500	
8/26/2021	1.2								
8/27/2021		0.59 (J)	5.3	<1					
9/1/2021					5		<1		
9/3/2021									
9/27/2021									
2/8/2022									50.9
2/9/2022	1.1	0.51 (J)	4.8	<1	3.9				
2/10/2022						78.7	<1	485	
2/11/2022									
8/30/2022	1.3	0.78 (J)	4.7		3.2				
8/31/2022				<1					48
9/1/2022						79		502	
2/7/2023	1.2	0.78 (J)	4.9	<1	3.8				
2/8/2023						78		494	50.5
2/9/2023									
2/10/2023							0.5 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWC-38	YGWA-40 (bg)
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 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWC-38	YGWA-40 (bg)
5/2/2017									
5/8/2017	60								
5/9/2017			91	130					
5/10/2017		100							
5/26/2017					12				
6/27/2017									
6/28/2017					11				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017		110							
7/13/2017			88	140					
7/17/2017	63								
9/22/2017				160					
9/29/2017				160					
10/3/2017					7.9				
10/4/2017									
10/5/2017									
10/6/2017				160					
10/10/2017									
10/11/2017			86	150		20			
10/12/2017		120					400	940	17
10/16/2017	62								
11/20/2017						24		980	71
11/21/2017							430		
1/10/2018									66
1/11/2018						23	390		
1/12/2018								880	
2/19/2018	64.6						414		57.2
2/20/2018						20.6		905	
4/2/2018									
4/3/2018						24.5	406	872	49.4
4/4/2018		160	76.5						
6/5/2018									
6/6/2018									
6/7/2018					8.8				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				144					
6/27/2018							357		
6/28/2018						22		869	43.8
8/6/2018	42.1								
8/7/2018						20.7	346	879	40.5
9/19/2018									
9/20/2018		247	84.1						
9/24/2018						21.2	358	872	39.7
9/25/2018									
9/26/2018				160					
9/27/2018									
10/1/2018					9.1				

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWC-38	YGWA-40 (bg)
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	263	708	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	214	483	
3/26/2020									
9/22/2020	145								
9/23/2020					11.8				
9/24/2020			77			11.7			22.9
9/25/2020		281					175	414	
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	117	356	21.5
8/19/2021									
8/20/2021	121								
8/25/2021									
8/26/2021						19.2	117	328	
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			117	282	
2/7/2023	82.4				17.8	9.7			
2/8/2023		164					119	251	17.5
2/9/2023			71.1	50.8					
2/10/2023									

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-3D (bg)
6/1/2016	150	54	120						
6/2/2016				160	36	46	66	96	130
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	135	48			50				
7/26/2016			94	177		54	78	92	141
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016		67	105						
9/14/2016	127			187			73	102	
9/15/2016						54			153
9/16/2016									
9/19/2016					35				
9/20/2016									
11/1/2016	75		44		<25				92
11/2/2016				181		71		115	
11/3/2016									
11/4/2016		60					75		
11/8/2016									
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017						45			
1/11/2017	148		107						159
1/12/2017				202			86		
1/13/2017								67	
1/16/2017		65			47				
1/17/2017									
2/21/2017					<25				
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017	182								
3/2/2017		61	98						117
3/3/2017									
3/6/2017								159	
3/7/2017				257			108		
3/8/2017						178			
3/9/2017									
4/26/2017	92				55	52			181
4/27/2017		31	116						
4/28/2017									
5/1/2017				165				107	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-3D (bg)
5/2/2017							103		
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		42	89	189			73		
6/28/2017	126								169
6/29/2017								79	
6/30/2017					42	45			
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017		58	119	170			89		
10/4/2017	147				31				141
10/5/2017						40		95	
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018			127						
6/6/2018		96		151					
6/7/2018							142	90	95
6/8/2018	158					114			
6/11/2018					59				
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									
9/25/2018									
9/26/2018				144			86	116	
9/27/2018									
10/1/2018	138	60	117			50			165

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-3D (bg)
10/2/2018					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				142			83	111	
4/4/2019									
6/12/2019									
9/24/2019		54	124	129			79		
9/25/2019	159				51	64		117	157
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		47				146
3/24/2020				139			68		
3/25/2020								146	
3/26/2020									
9/22/2020				104			75	83	
9/23/2020	155	15	108						157
9/24/2020					51				
9/25/2020						54			
10/7/2020									
3/1/2021					23				
3/2/2021				52		67	67		
3/3/2021	111	39	99					80	137
3/4/2021									
8/19/2021		44	105		50	54			144
8/20/2021									
8/25/2021									
8/26/2021				123			86	93	
8/27/2021	155								
9/1/2021									
9/3/2021									
9/27/2021									
2/8/2022									
2/9/2022	145	57	105						154
2/10/2022				127		56	77		
2/11/2022					66			102	
8/30/2022			116	148			86		
8/31/2022	137	46			33	51		92	141
9/1/2022									
2/7/2023		121	131	180					
2/8/2023	145				43	56			144
2/9/2023							59	124	
2/10/2023									

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
6/1/2016									
6/2/2016									
6/6/2016	58	120							
6/7/2016			28	38	60	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	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 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
5/2/2017			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								1800	193
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017					149				
10/4/2017	45		61	54					
10/5/2017		104					48		
10/6/2017									
10/10/2017									175
10/11/2017						100			
10/12/2017								1600	
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									192
4/3/2018									
4/4/2018								1520	
6/5/2018					109				
6/6/2018				79					
6/7/2018		68							
6/8/2018									
6/11/2018	74		70						
6/12/2018						115	79		
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									186
9/20/2018								1240	
9/24/2018									
9/25/2018	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 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
10/2/2018									
2/25/2019									
3/26/2019									
3/27/2019								1100	170
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			72		134				
4/3/2019	63	89		57					
4/4/2019						85	63		
6/12/2019									
9/24/2019					157				
9/25/2019			81	75					
9/26/2019	72	126					81		
9/27/2019						96			
10/8/2019									172
10/9/2019								1170	
3/17/2020									165
3/18/2020									
3/19/2020									
3/24/2020	59	91	71	76	117				
3/25/2020								1200	
3/26/2020						110	67		
9/22/2020									141
9/23/2020	81	103	99				87		
9/24/2020				69	113	129		1060	
9/25/2020									
10/7/2020									
3/1/2021									145
3/2/2021									
3/3/2021	37	95	57	53			70		
3/4/2021					110	96		501	
8/19/2021									134
8/20/2021									
8/25/2021						141		886	
8/26/2021	31								
8/27/2021		112	93	67					
9/1/2021					137		96		
9/3/2021									
9/27/2021									
2/8/2022									151
2/9/2022	60	103	81	72	131				
2/10/2022						180	78	882	
2/11/2022									
8/30/2022	52	100	81		122				
8/31/2022				62					116
9/1/2022						191		934	
2/7/2023	55	96	78	89	163				
2/8/2023						158		853	141
2/9/2023									
2/10/2023							66		

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWC-38	YGWA-40 (bg)
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016									
7/26/2016									
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016	209	80							
9/1/2016			228						
9/2/2016				243					
9/13/2016									
9/14/2016					152				
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016					148				
11/8/2016									
11/14/2016				272					
11/15/2016			211						
11/16/2016		112							
11/28/2016	102								
12/15/2016					191				
1/10/2017									
1/11/2017									
1/12/2017									
1/13/2017									
1/16/2017					180				
1/17/2017									
2/21/2017									
2/22/2017	164								
2/24/2017		147							
2/27/2017			382						
2/28/2017				306					
3/1/2017									
3/2/2017									
3/3/2017					156				
3/6/2017									
3/7/2017									
3/8/2017									
3/9/2017									
4/26/2017									
4/27/2017									
4/28/2017					130				
5/1/2017									

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWC-38	YGWA-40 (bg)
5/2/2017									
5/8/2017	145								
5/9/2017			154	303					
5/10/2017		203							
5/26/2017					223				
6/27/2017									
6/28/2017					166				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017		238							
7/13/2017			192	282					
7/17/2017	185								
9/22/2017				309					
9/29/2017				273					
10/3/2017					153				
10/4/2017									
10/5/2017									
10/6/2017				287					
10/10/2017									
10/11/2017			177	264		68			
10/12/2017		287					636	1360	74
10/16/2017	218								
11/20/2017						139		1390	179
11/21/2017							706		
1/10/2018									140
1/11/2018						153	701		
1/12/2018								1400	
2/19/2018	173						630		119
2/20/2018						87		1300	
4/2/2018									
4/3/2018						85	660	1390	106
4/4/2018		292	174						
6/5/2018									
6/6/2018									
6/7/2018					146				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				292					
6/27/2018							575		
6/28/2018						88		1310	112
8/6/2018	158								
8/7/2018						89	574	1340	103
9/19/2018									
9/20/2018		434	186						
9/24/2018						82	588	1400	107
9/25/2018									
9/26/2018				277					
9/27/2018									
10/1/2018					155				

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/26/2023 11:21 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWC-38	YGWA-40 (bg)
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	283	294	164			248	226		93
2/9/2022					156				
2/10/2022								541	
2/11/2022				81					
8/30/2022	244				153				
8/31/2022			207			242			92
9/1/2022		366		108			205	499	
2/7/2023	207				159	224			
2/8/2023		333					257	579	115
2/9/2023			145	116					
2/10/2023									

FIGURE E.

Appendix III Trend Tests - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/26/2023, 11:26 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-39 (bg)	0.0181	75	63	Yes	17	5.882	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)	-0.01412	-91	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-38	-3.533	-114	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-41	-2.235	-96	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-42	-1.379	-87	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-43	0.506	86	63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-47 (bg)	-0.0007791	-66	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.137	126	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.07974	-131	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-21I (bg)	0.7925	98	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-39 (bg)	1.642	69	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-1.44	-101	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5I (bg)	0.06857	92	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWC-38	-27.66	-122	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWC-42	-11.48	-98	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-1.172	-111	-63	Yes	17	5.882	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	2.992	85	68	Yes	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.5761	98	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.08713	-95	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18I (bg)	-0.1242	-93	-81	Yes	20	20	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-2.618	-90	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-8.078	-103	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-2.638	-144	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.1006	134	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWC-38	-141.8	-125	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWC-42	-98.05	-101	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-15.39	-121	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)	14.48	88	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	0.9678	140	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.3151	105	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3I (bg)	0.9326	99	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-21I (bg)	11.42	85	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-39 (bg)	29.24	74	63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5D (bg)	-11.59	-90	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-38	-191	-100	-63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-41	-106.7	-106	-63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-42	-136.8	-102	-63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-43	57.74	76	63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-47 (bg)	-13.38	-101	-63	Yes	17	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/26/2023, 11:26 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-17S (bg)	0.0003162	37	81	No	20	10	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-18	-81	No	20	80	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	0.0004242	39	81	No	20	25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-7	-81	No	20	90	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	0	-48	-81	No	20	60	n/a	n/a	0.01	NP
Boron (mg/L)	**YGWA-39 (bg)**	**0.0181**	**75**	**63**	**Yes**	**17**	**5.882**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWA-40 (bg)**	**-0.01412**	**-91**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-4I (bg)	0	7	81	No	20	70	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0004226	48	81	No	20	15	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	0	-18	-81	No	20	65	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-23S	0.01895	15	81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	**YGWC-38**	**-3.533**	**-114**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-41**	**-2.235**	**-96**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-42**	**-1.379**	**-87**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-43**	**0.506**	**86**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWA-47 (bg)**	**-0.0007791**	**-66**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	GWA-2 (bg)	0	29	68	No	18	66.67	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-14S (bg)	-0.0006705	-53	-81	No	20	10	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0.001404	46	81	No	20	40	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1I (bg)	0	-3	-81	No	20	75	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-2I (bg)	0	-2	-81	No	20	80	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-16	-81	No	20	85	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	8	81	No	20	60	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	-15	-81	No	20	90	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-17S (bg)**	**0.137**	**126**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-18I (bg)	0.06151	41	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-18S (bg)**	**-0.07974**	**-131**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-20S (bg)	0.03077	57	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-21I (bg)**	**0.7925**	**98**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-39 (bg)**	**1.642**	**69**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-40 (bg)	-0.5174	-42	-63	No	17	5.882	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-4I (bg)	0.09322	24	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-5D (bg)**	**-1.44**	**-101**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-5I (bg)**	**0.06857**	**92**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWC-38**	**-27.66**	**-122**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWC-42**	**-11.48**	**-98**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-47 (bg)**	**-1.172**	**-111**	**-63**	**Yes**	**17**	**5.882**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GWA-2 (bg)**	**2.992**	**85**	**68**	**Yes**	**18**	**5.556**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-14S (bg)	0	4	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-1D (bg)**	**0.5761**	**98**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-1I (bg)**	**-0.08713**	**-95**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-2I (bg)	0.0884	17	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-30I (bg)	0.01674	45	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3D (bg)	0.3791	60	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3I (bg)	0.5034	67	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-17S (bg)	0.02875	23	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-18I (bg)**	**-0.1242**	**-93**	**-81**	**Yes**	**20**	**20**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-18S (bg)	-0.1096	-55	-81	No	20	10	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-20S (bg)	0	48	81	No	20	70	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-21I (bg)	-0.2092	-55	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-39 (bg)**	**-2.618**	**-90**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-40 (bg)**	**-8.078**	**-103**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-4I (bg)	0.07548	35	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-5D (bg)**	**-2.638**	**-144**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-5I (bg)**	**0.1006**	**134**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests - All Results

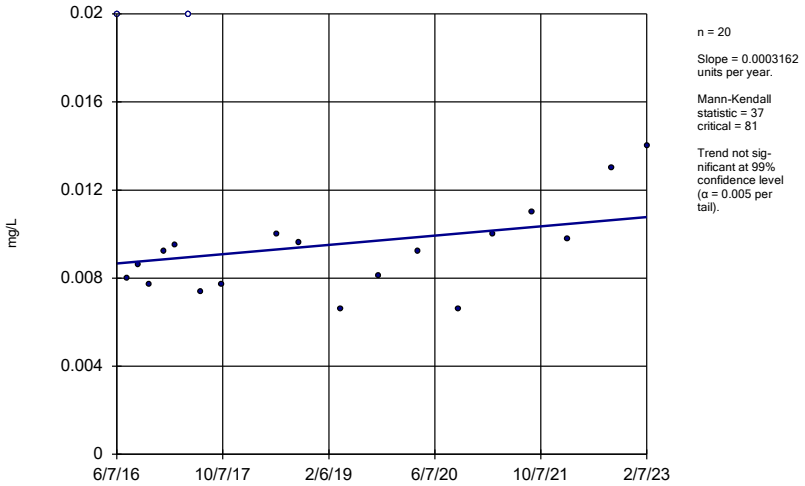
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/26/2023, 11:26 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Sulfate (mg/L)	**YGWC-38**	**-141.8**	**-125**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWC-42**	**-98.05**	**-101**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWC-43	18.06	47	63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-47 (bg)**	**-15.39**	**-121**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GWA-2 (bg)**	**14.48**	**88**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-14S (bg)	-0.02207	-14	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-1D (bg)**	**0.9678**	**140**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-1I (bg)	-0.04757	-9	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-2I (bg)	1.209	77	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-30I (bg)	-0.03067	-23	-81	No	20	10	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-3D (bg)**	**0.3151**	**105**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-3I (bg)**	**0.9326**	**99**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	YGWA-17S (bg)	2.621	47	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18I (bg)	-1.319	-26	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18S (bg)	0.3933	9	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-20S (bg)	3.156	51	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**YGWA-21I (bg)**	**11.42**	**85**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWA-39 (bg)**	**29.24**	**74**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	YGWA-40 (bg)	-7.039	-48	-63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-4I (bg)	0.9669	14	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**YGWA-5D (bg)**	**-11.59**	**-90**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	YGWA-5I (bg)	-0.8043	-16	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**YGWC-38**	**-191**	**-100**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWC-41**	**-106.7**	**-106**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWC-42**	**-136.8**	**-102**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWC-43**	**57.74**	**76**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWA-47 (bg)**	**-13.38**	**-101**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	GWA-2 (bg)	17.72	66	68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-14S (bg)	0.3652	16	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-1D (bg)	2.029	32	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-1I (bg)	-1.086	-18	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-2I (bg)	-0.8152	-19	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-30I (bg)	1.488	24	81	No	20	10	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3D (bg)	0.3218	7	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3I (bg)	0.862	9	81	No	20	0	n/a	n/a	0.01	NP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-17S (bg)



n = 20

Slope = 0.0003162 units per year.

Mann-Kendall statistic = 37
critical = 81

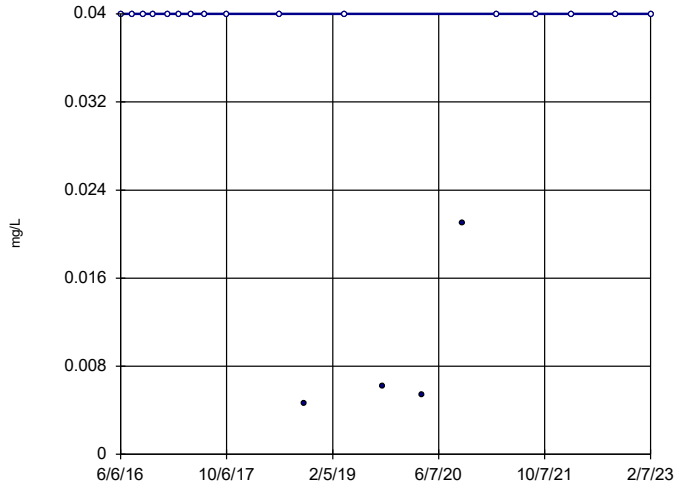
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = -18
critical = -81

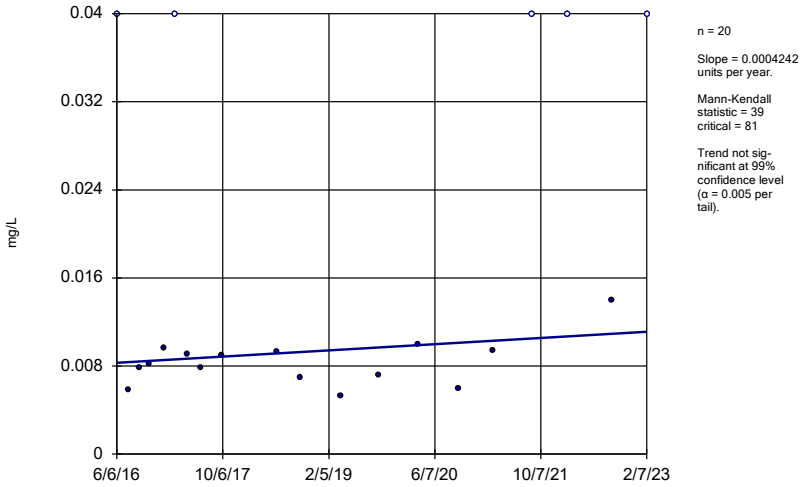
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18S (bg)



n = 20

Slope = 0.0004242 units per year.

Mann-Kendall statistic = 39
critical = 81

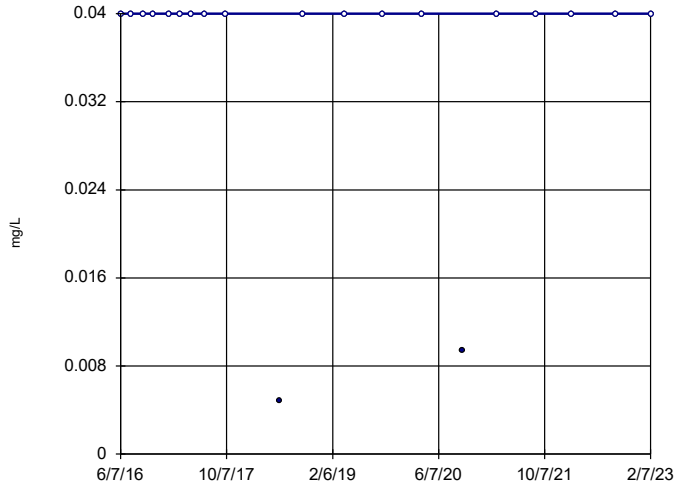
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-20S (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = -7
critical = -81

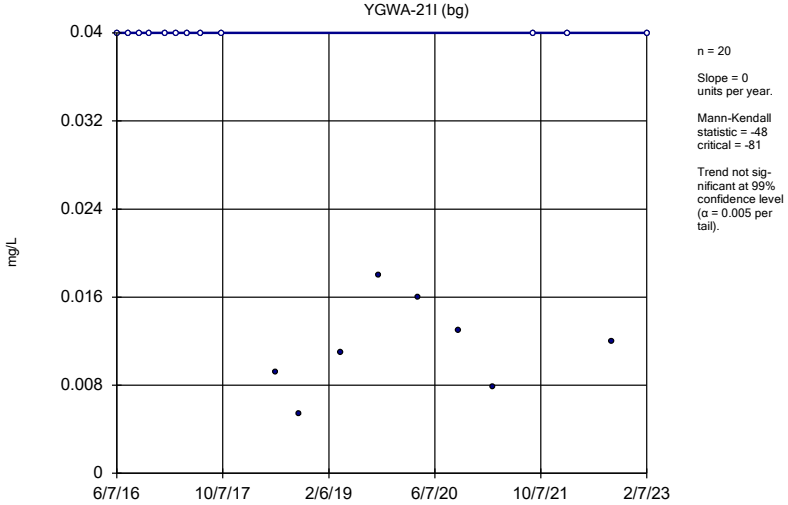
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-21I (bg)



n = 20

Slope = 0
units per year.

Mann-Kendall
statistic = -48
critical = -81

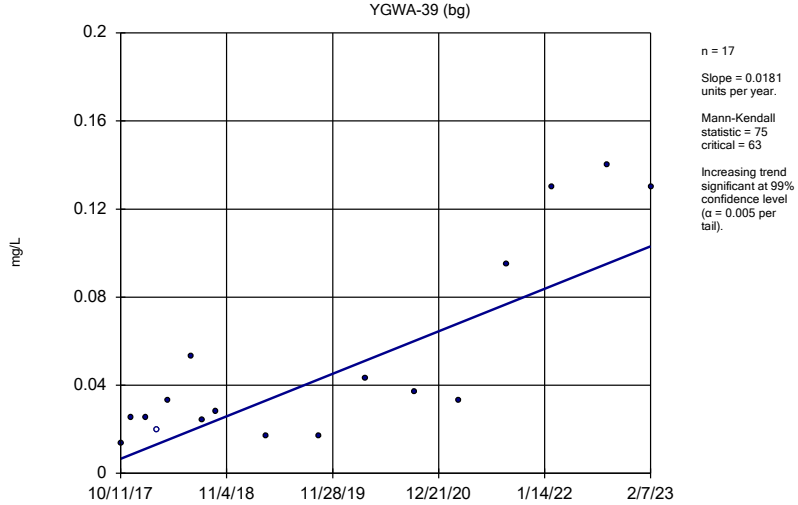
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 17

Slope = 0.0181
units per year.

Mann-Kendall
statistic = 75
critical = 63

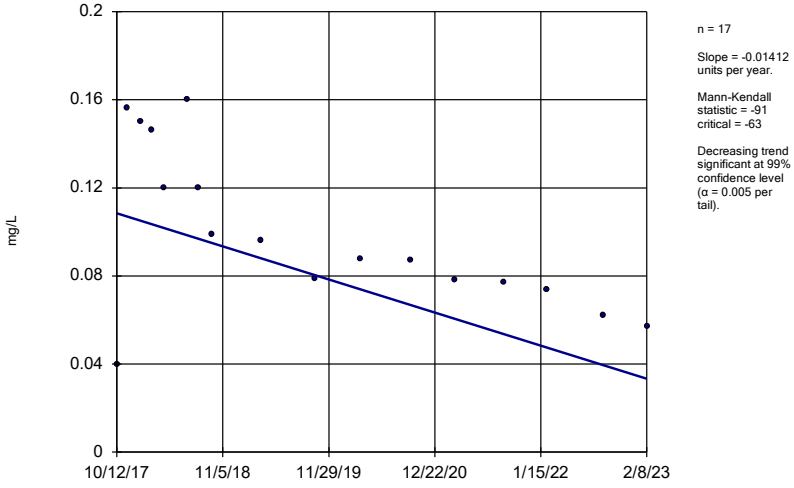
Increasing trend
significant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-40 (bg)



n = 17

Slope = -0.01412
units per year.

Mann-Kendall
statistic = -91
critical = -63

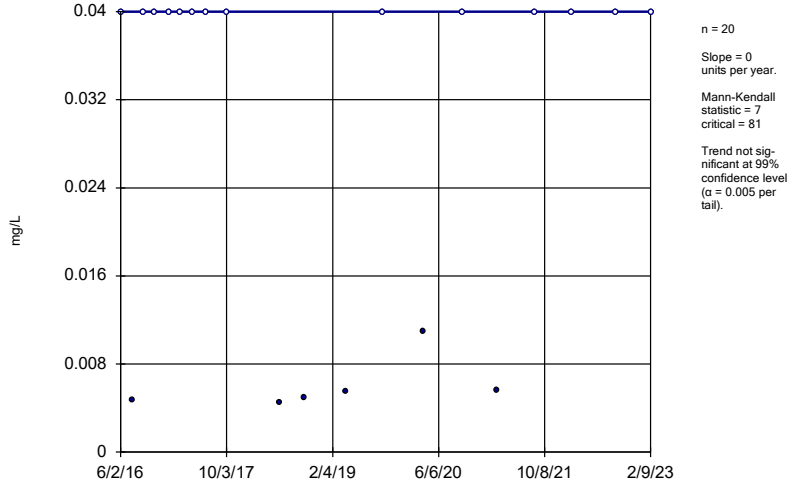
Decreasing trend
significant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-4I (bg)



n = 20

Slope = 0
units per year.

Mann-Kendall
statistic = 7
critical = 81

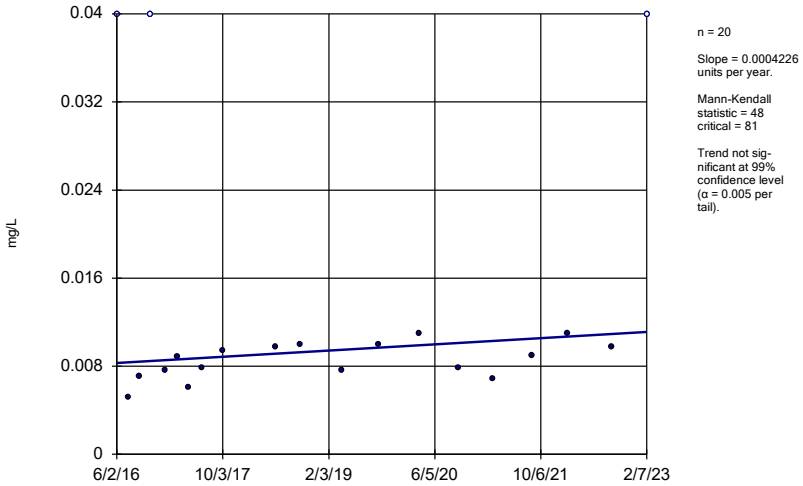
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5D (bg)



n = 20

Slope = 0.0004226 units per year.

Mann-Kendall statistic = 48
critical = 81

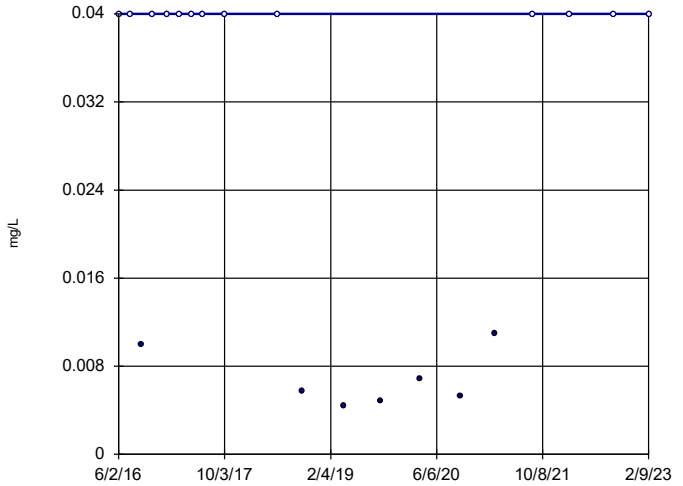
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5I (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = -18
critical = -81

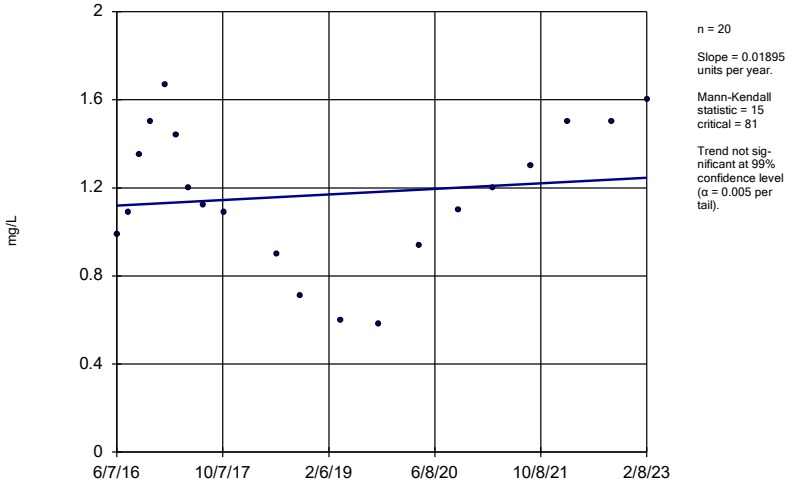
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-23S



n = 20

Slope = 0.01895 units per year.

Mann-Kendall statistic = 15
critical = 81

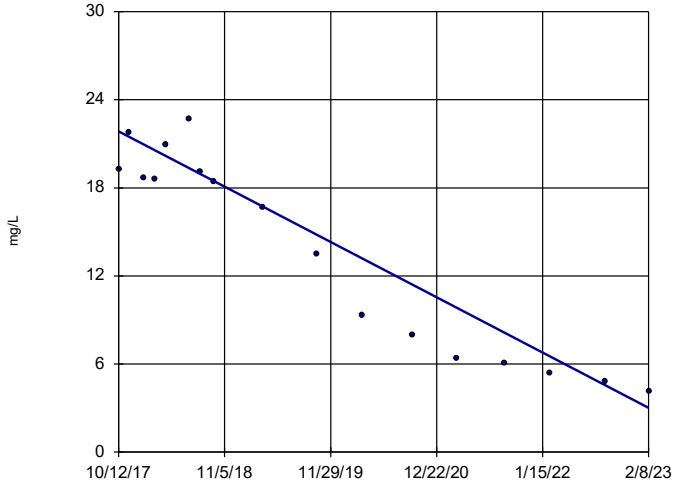
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-38



n = 17

Slope = -3.533 units per year.

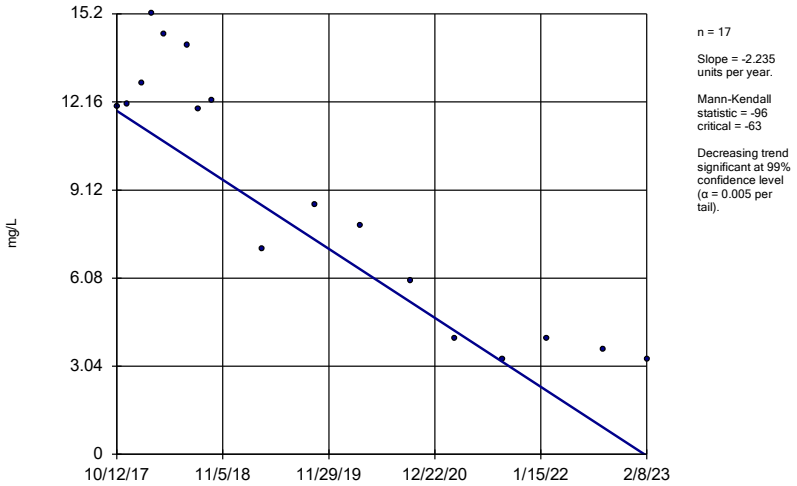
Mann-Kendall statistic = -114
critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWC-41



n = 17

Slope = -2.235 units per year.

Mann-Kendall statistic = -96
critical = -63

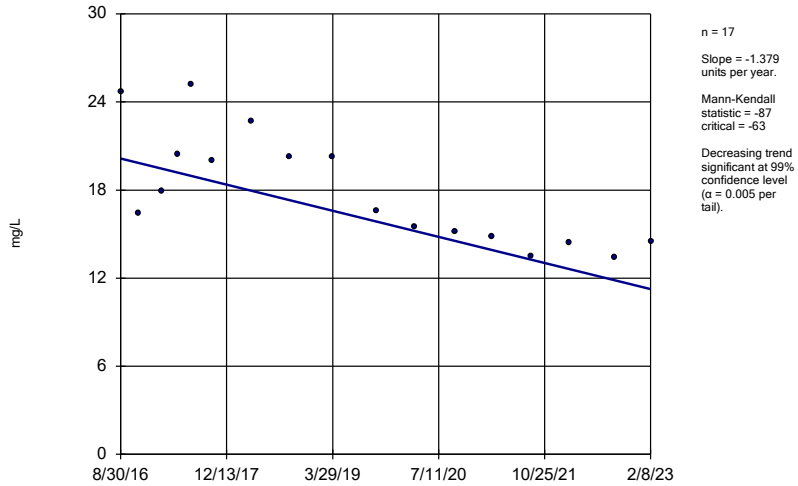
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-42



n = 17

Slope = -1.379 units per year.

Mann-Kendall statistic = -87
critical = -63

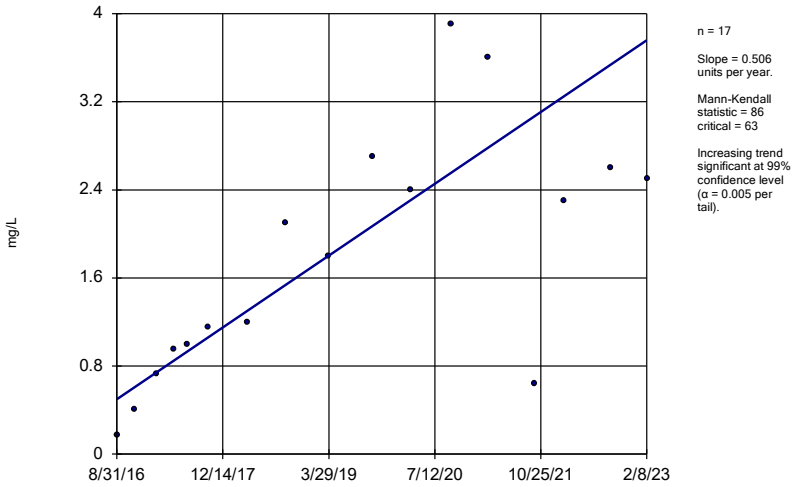
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-43



n = 17

Slope = 0.506 units per year.

Mann-Kendall statistic = 86
critical = 63

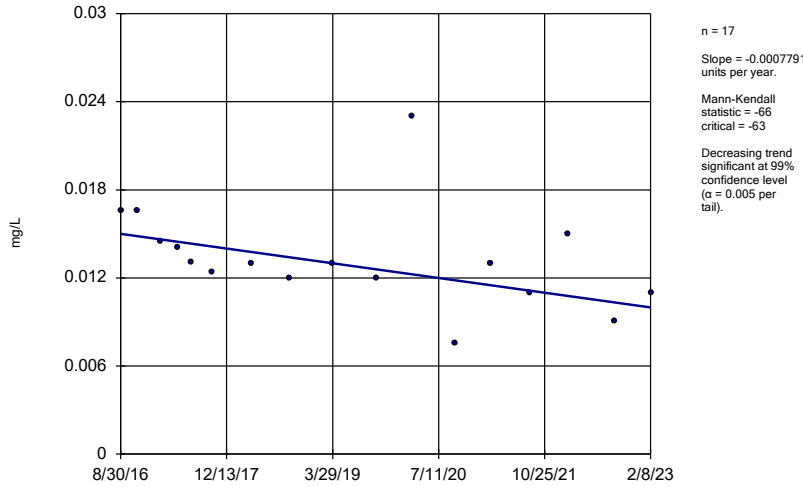
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-47 (bg)



n = 17

Slope = -0.0007791 units per year.

Mann-Kendall statistic = -66
critical = -63

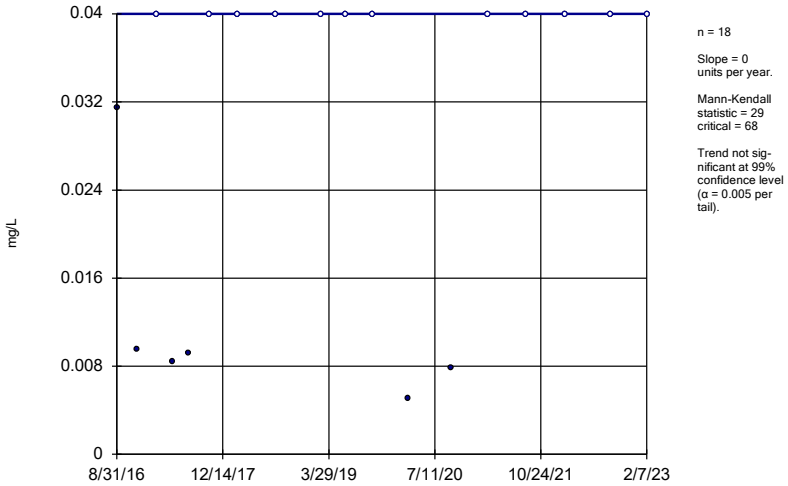
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = 29
critical = 68

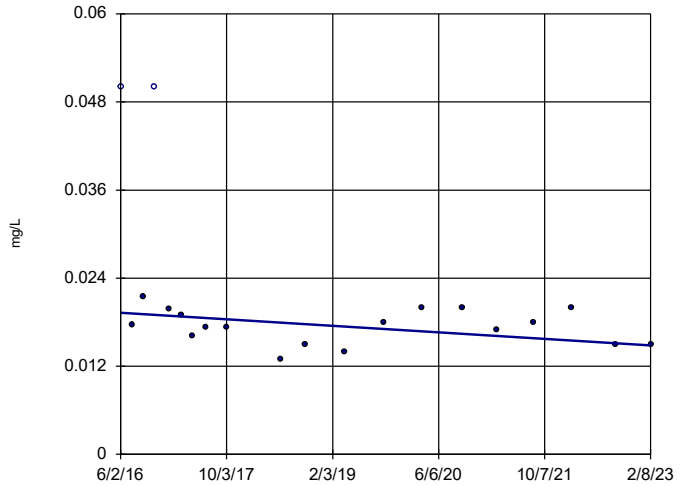
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-14S (bg)



n = 20

Slope = -0.0006705 units per year.

Mann-Kendall statistic = -53
critical = -81

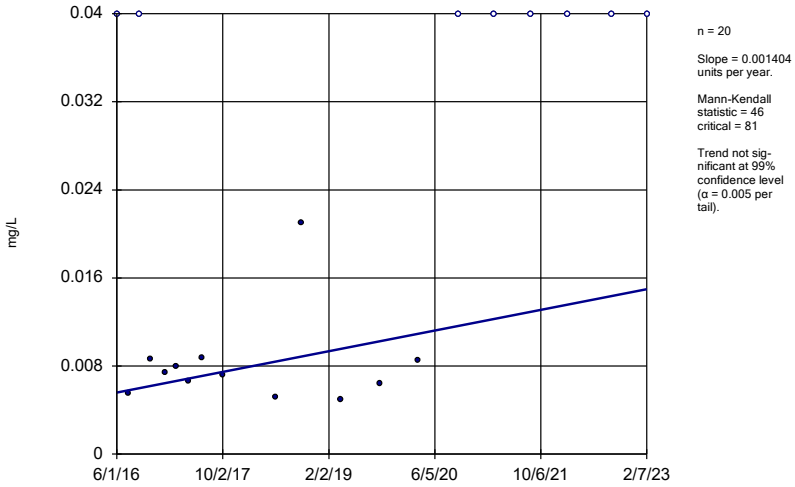
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1D (bg)



n = 20

Slope = 0.001404 units per year.

Mann-Kendall statistic = 46
critical = 81

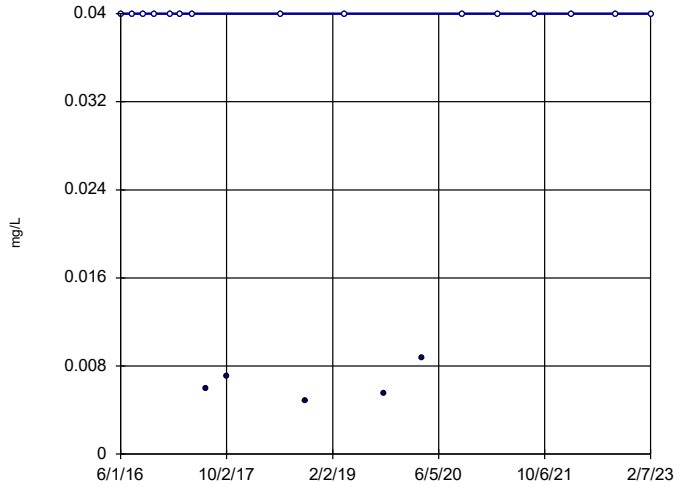
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1I (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = -3
critical = -81

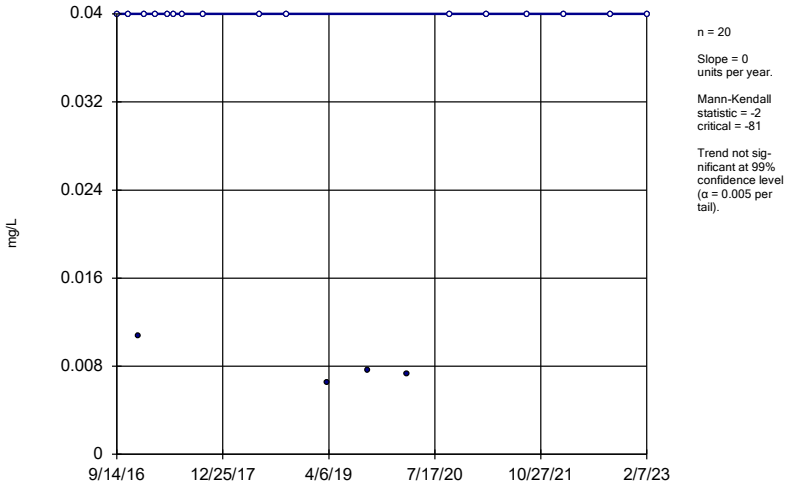
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-2I (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = -2
critical = -81

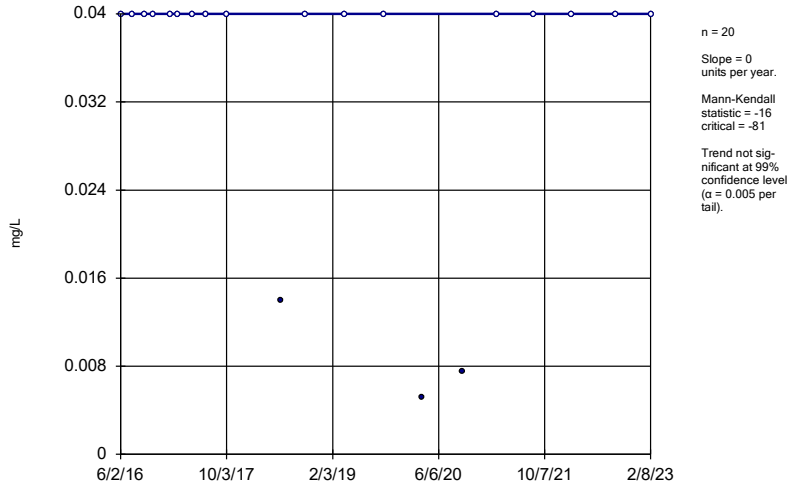
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = -16
critical = -81

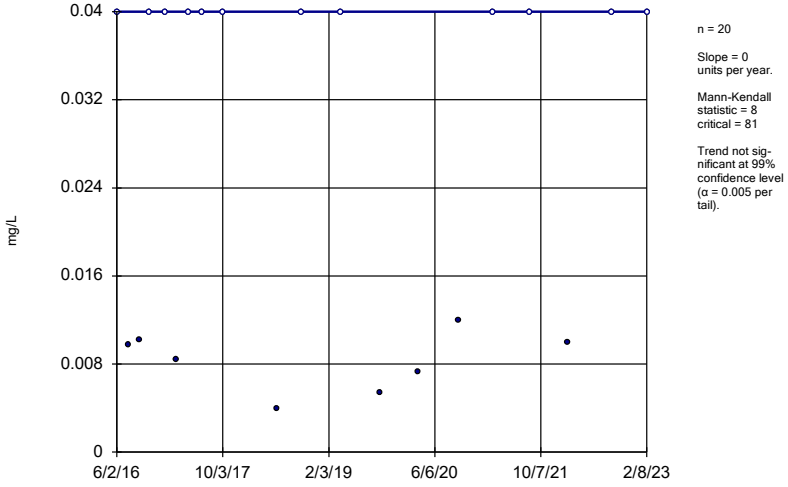
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3D (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 8
critical = 81

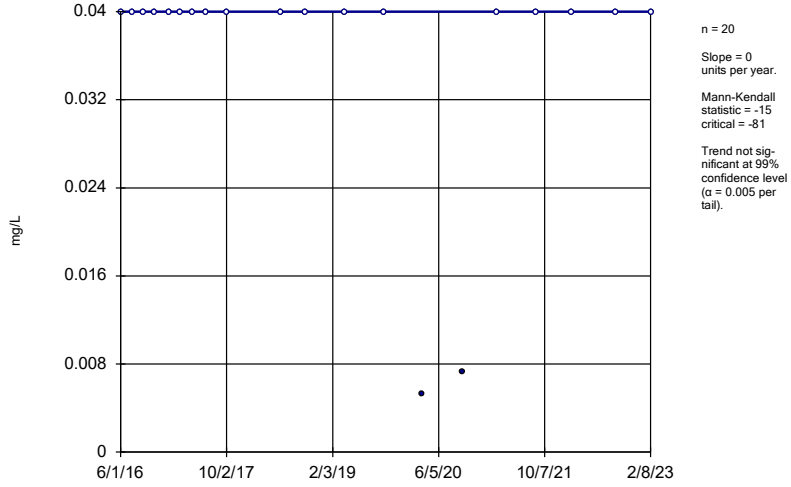
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3I (bg)



n = 20

Slope = 0 units per year.

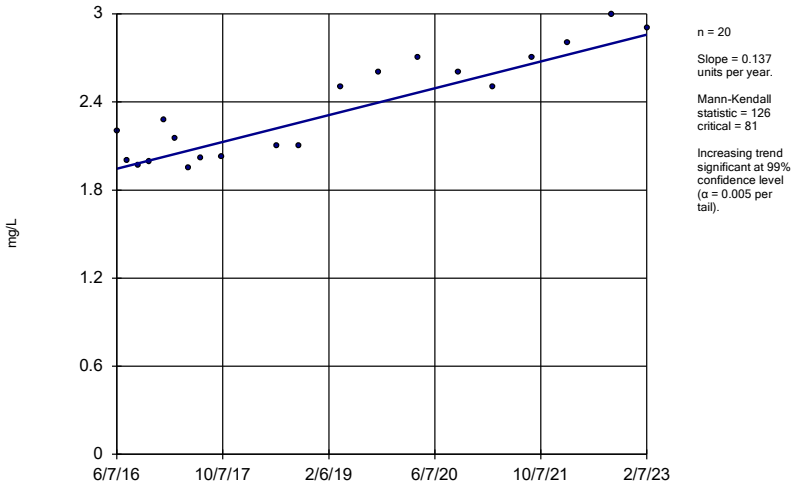
Mann-Kendall statistic = -15
critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-17S (bg)



n = 20

Slope = 0.137 units per year.

Mann-Kendall statistic = 126 critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

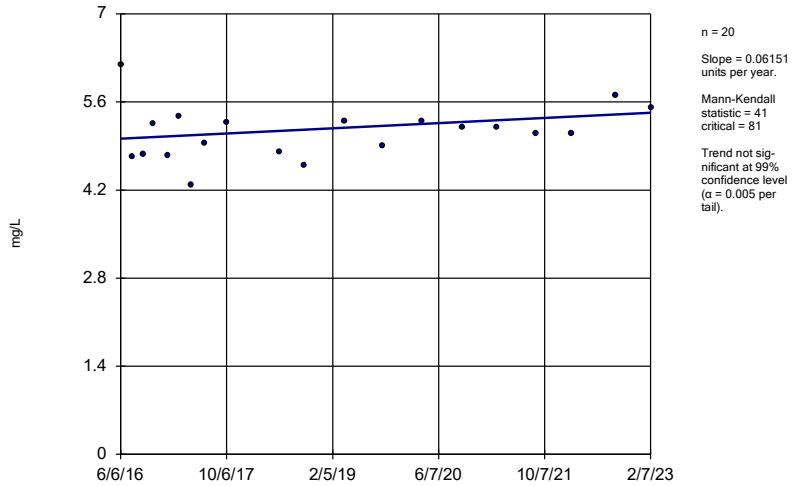
Constituent: Calcium Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18I (bg)



n = 20

Slope = 0.06151 units per year.

Mann-Kendall statistic = 41 critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

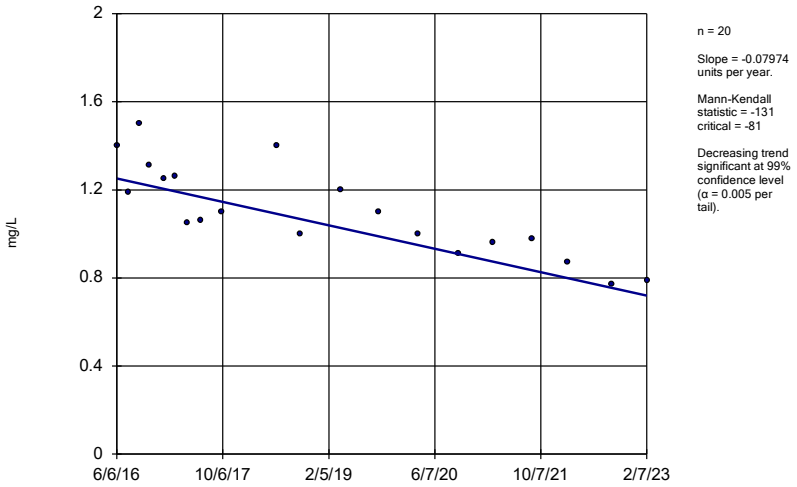
Constituent: Calcium Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18S (bg)



n = 20

Slope = -0.07974 units per year.

Mann-Kendall statistic = -131 critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

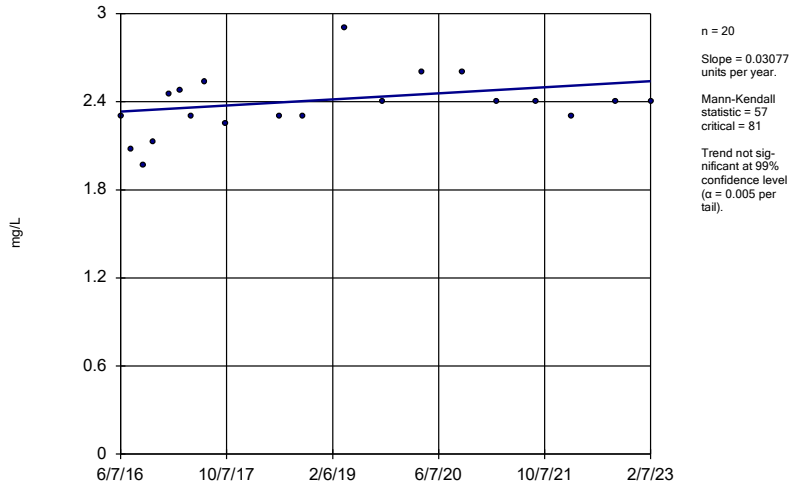
Constituent: Calcium Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-20S (bg)



n = 20

Slope = 0.03077 units per year.

Mann-Kendall statistic = 57 critical = 81

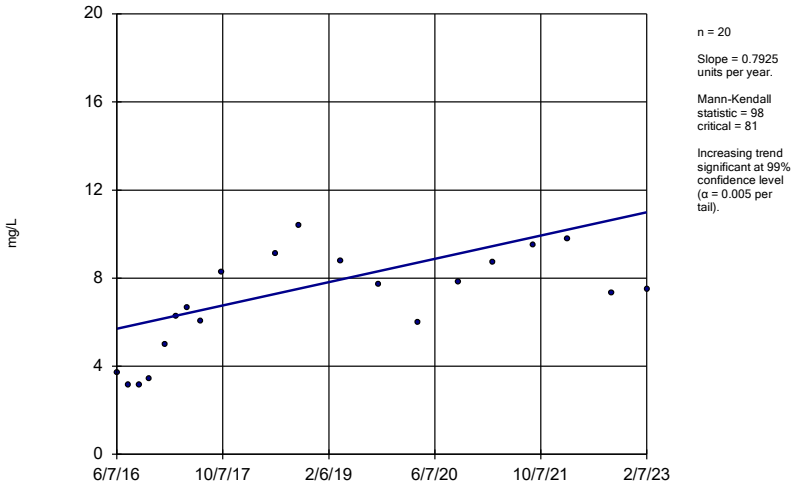
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-21I (bg)



n = 20

Slope = 0.7925 units per year.

Mann-Kendall statistic = 98 critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

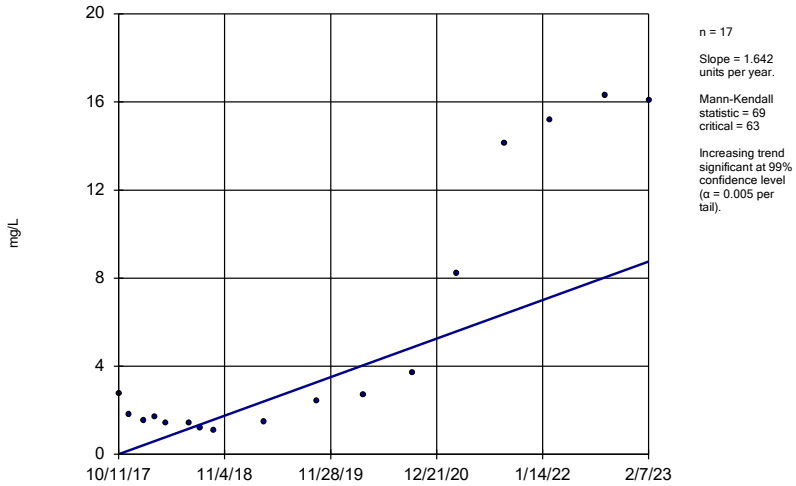
Constituent: Calcium Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-39 (bg)



n = 17

Slope = 1.642 units per year.

Mann-Kendall statistic = 69 critical = 63

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests

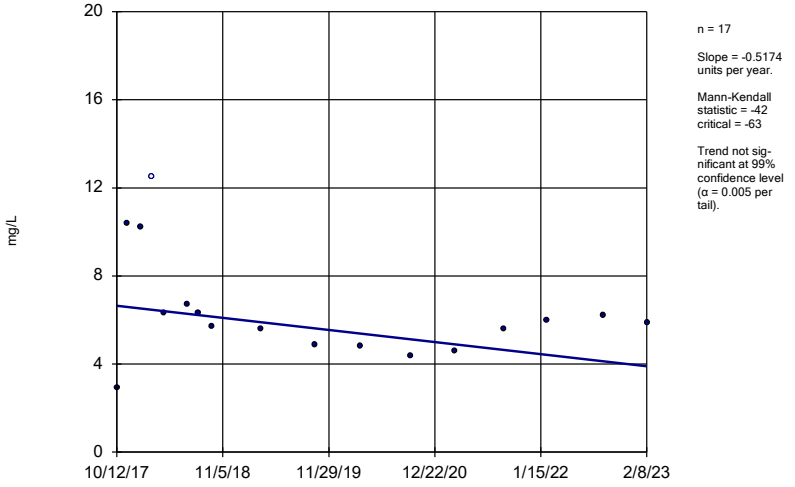
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-40 (bg)



n = 17

Slope = -0.5174 units per year.

Mann-Kendall statistic = -42 critical = -63

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

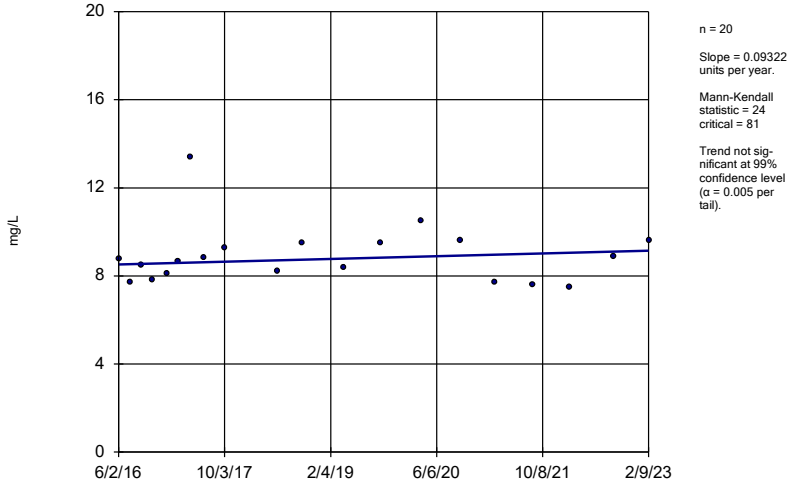
Constituent: Calcium Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-4I (bg)



n = 20

Slope = 0.09322 units per year.

Mann-Kendall statistic = 24 critical = 81

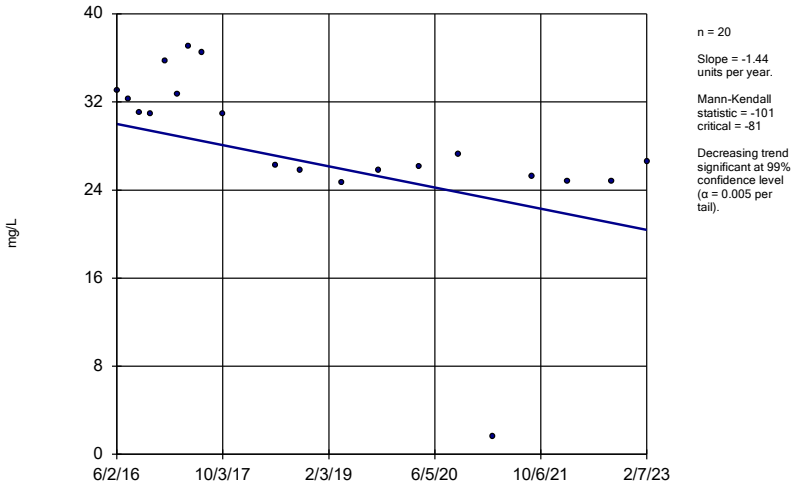
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-5D (bg)



n = 20

Slope = -1.44 units per year.

Mann-Kendall statistic = -101
critical = -81

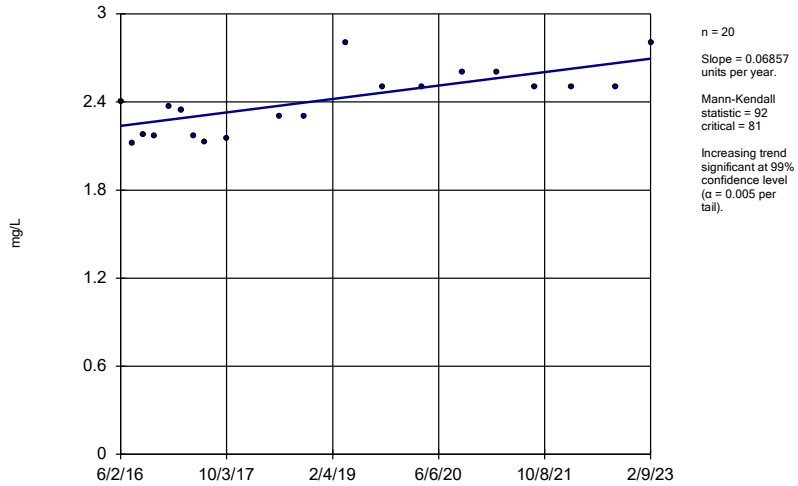
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5I (bg)



n = 20

Slope = 0.06857 units per year.

Mann-Kendall statistic = 92
critical = 81

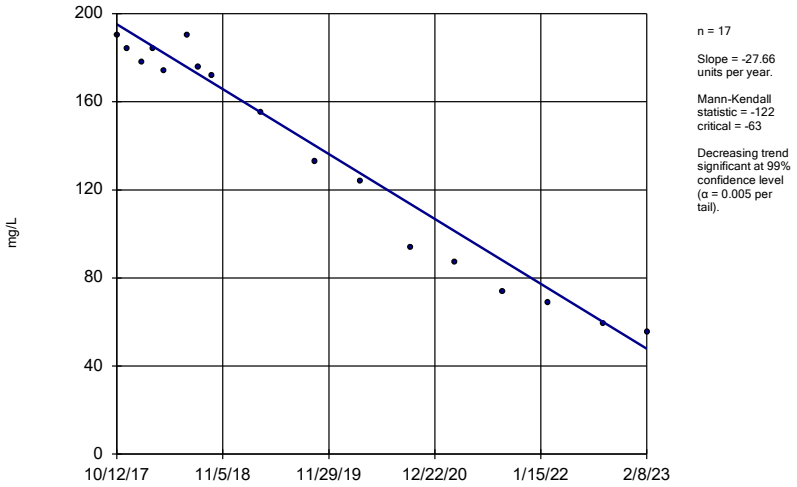
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-38



n = 17

Slope = -27.66 units per year.

Mann-Kendall statistic = -122
critical = -63

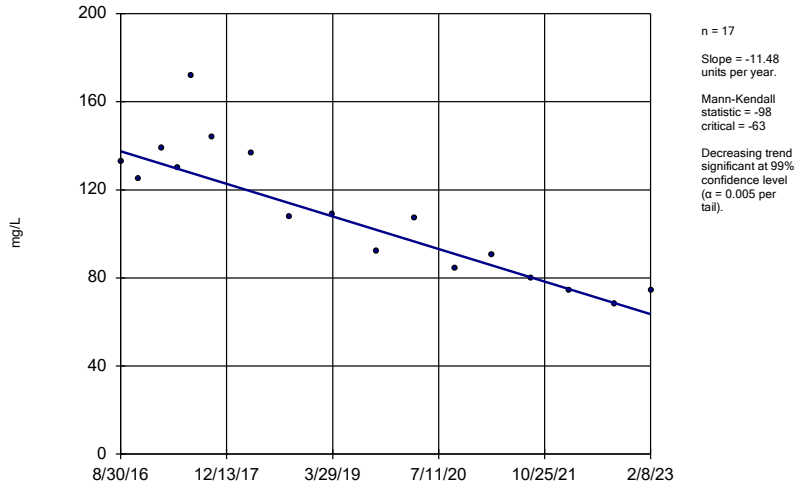
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-42



n = 17

Slope = -11.48 units per year.

Mann-Kendall statistic = -98
critical = -63

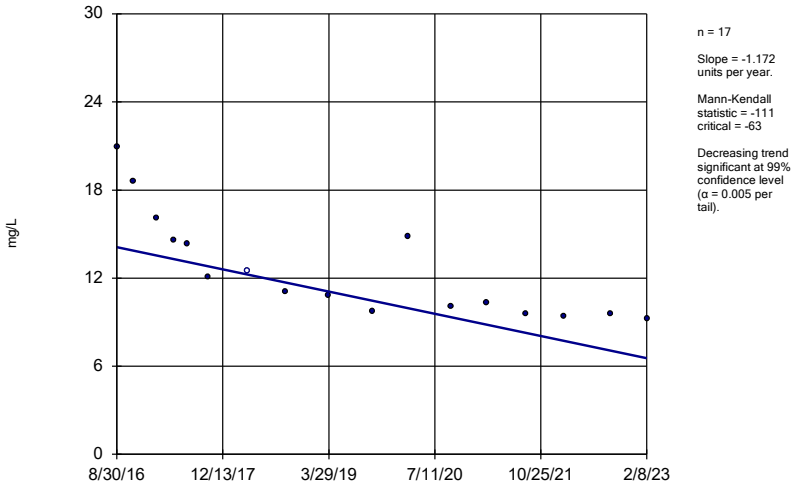
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-47 (bg)



n = 17

Slope = -1.172 units per year.

Mann-Kendall statistic = -111
critical = -63

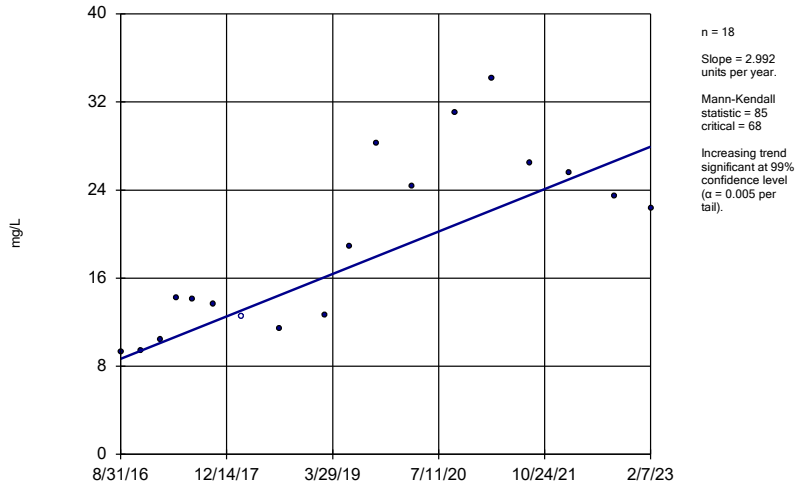
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 18

Slope = 2.992 units per year.

Mann-Kendall statistic = 85
critical = 68

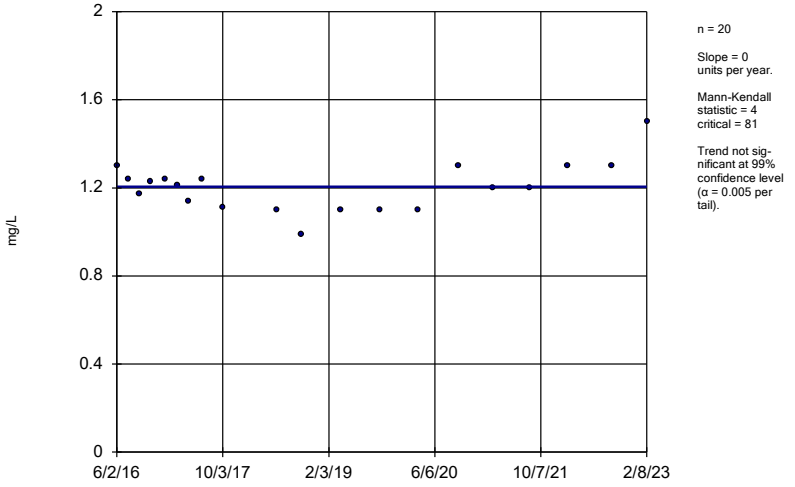
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-14S (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 4
critical = 81

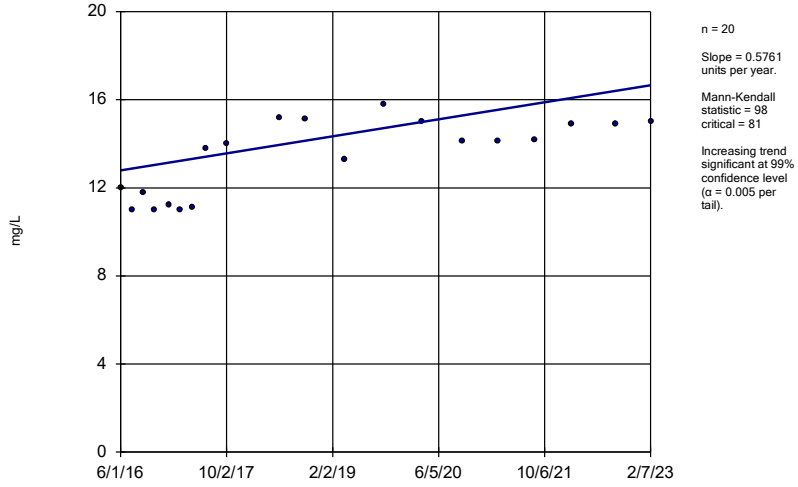
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1D (bg)



n = 20

Slope = 0.5761 units per year.

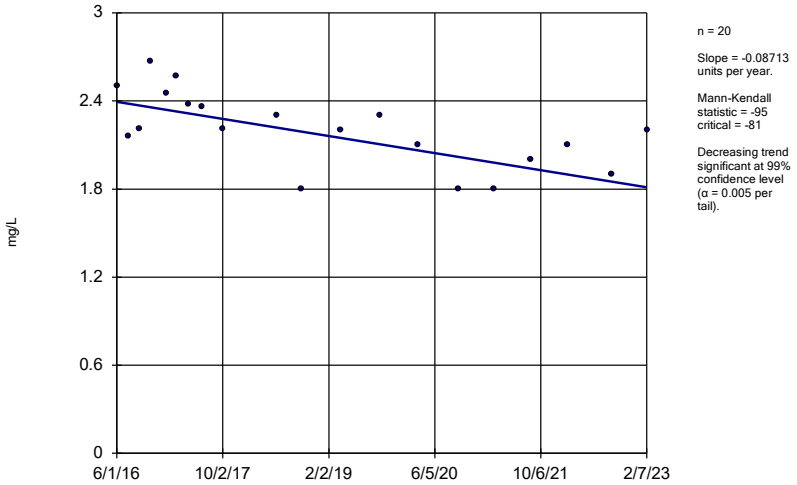
Mann-Kendall statistic = 98
critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-1I (bg)



n = 20

Slope = -0.08713 units per year.

Mann-Kendall statistic = -95 critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

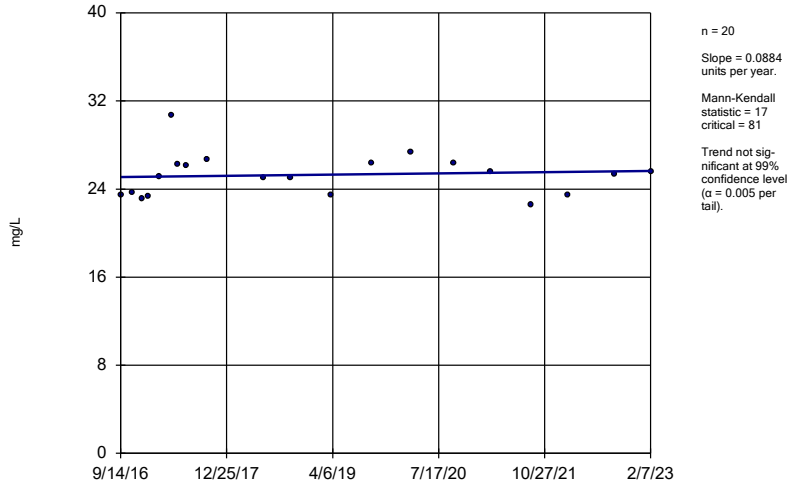
Constituent: Calcium Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-2I (bg)



n = 20

Slope = 0.0884 units per year.

Mann-Kendall statistic = 17 critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

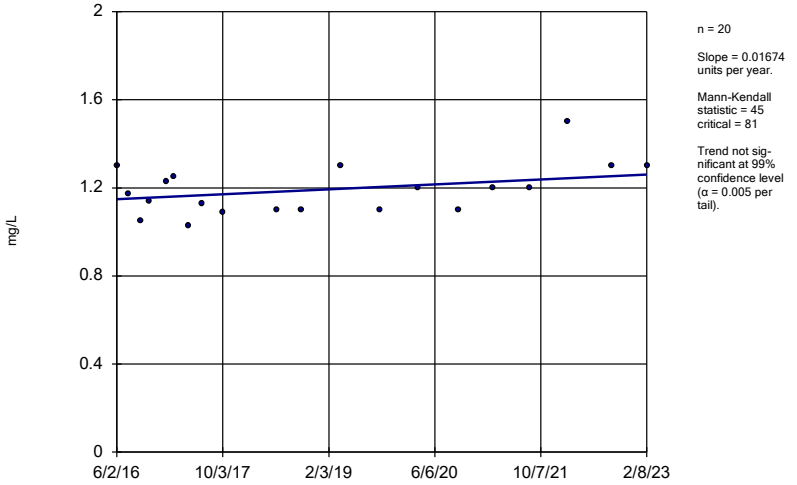
Constituent: Calcium Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-30I (bg)



n = 20

Slope = 0.01674 units per year.

Mann-Kendall statistic = 45 critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

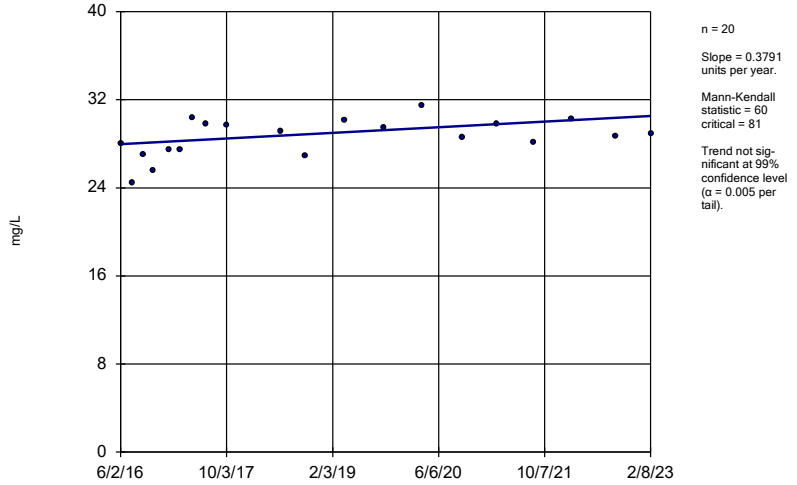
Constituent: Calcium Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3D (bg)



n = 20

Slope = 0.3791 units per year.

Mann-Kendall statistic = 60 critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

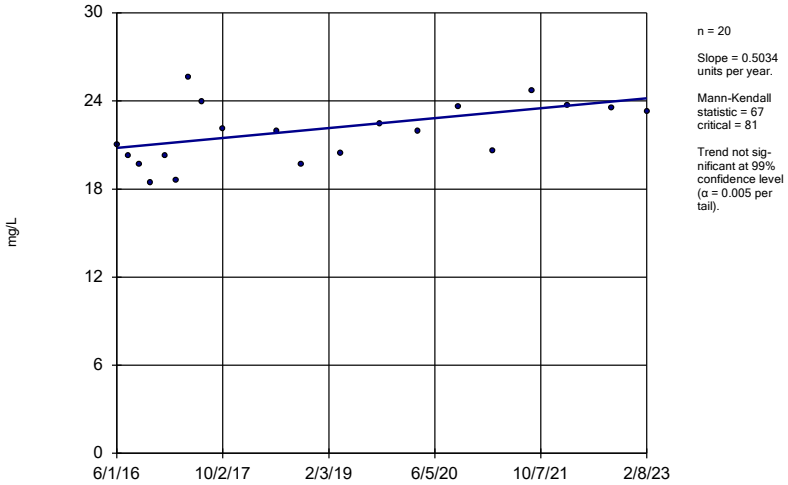
Constituent: Calcium Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3I (bg)



n = 20

Slope = 0.5034 units per year.

Mann-Kendall statistic = 67 critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

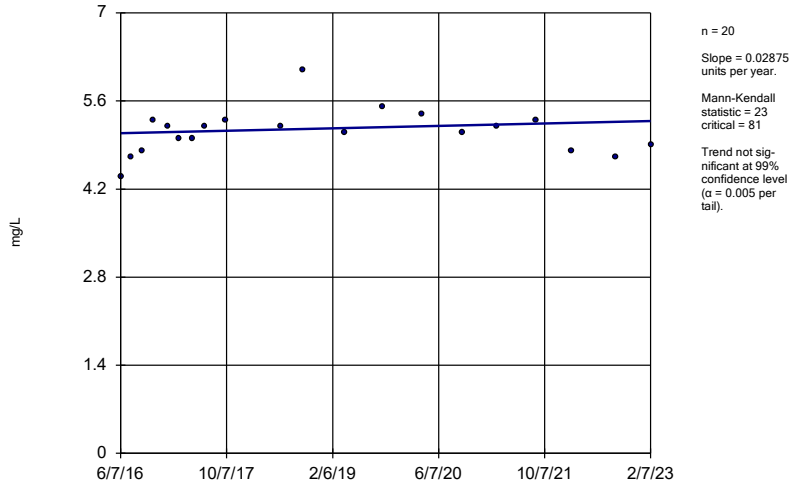
Constituent: Calcium Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-17S (bg)



n = 20

Slope = 0.02875 units per year.

Mann-Kendall statistic = 23 critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests

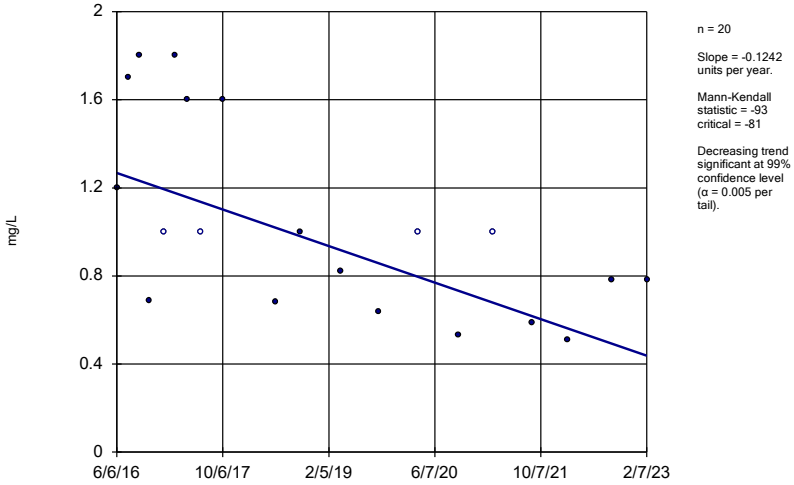
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 20

Slope = -0.1242 units per year.

Mann-Kendall statistic = -93 critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests

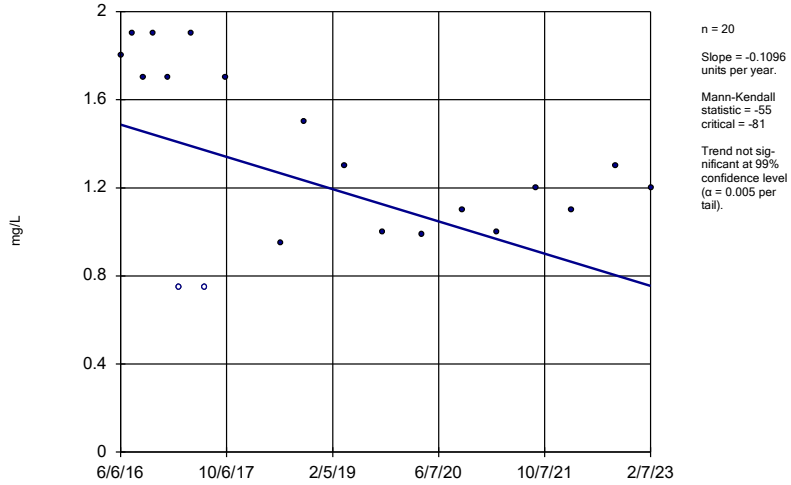
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18S (bg)



n = 20

Slope = -0.1096 units per year.

Mann-Kendall statistic = -55 critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests

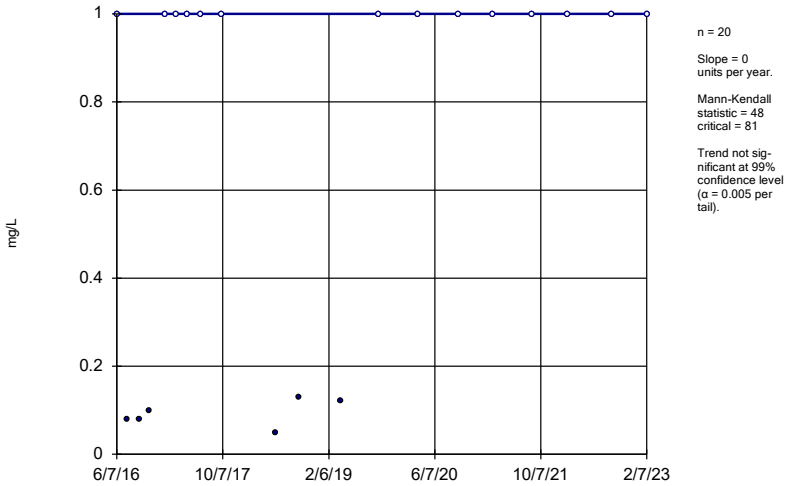
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-20S (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 48
critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

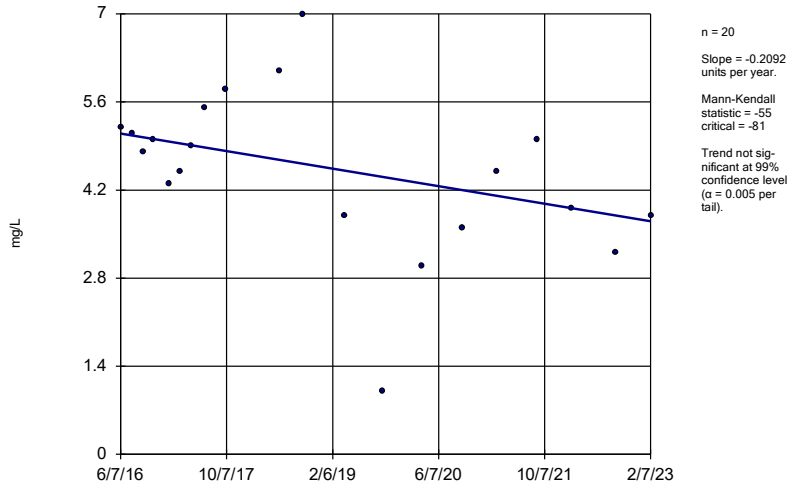
Constituent: Sulfate Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-21I (bg)



n = 20

Slope = -0.2092 units per year.

Mann-Kendall statistic = -55
critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

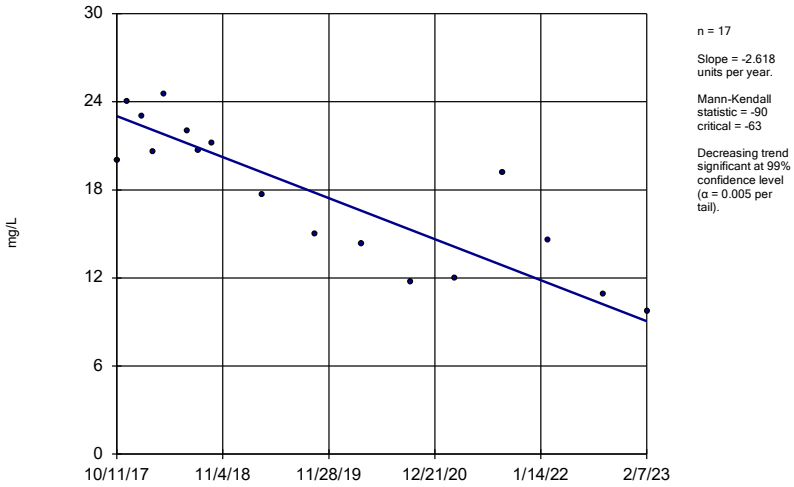
Constituent: Sulfate Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-39 (bg)



n = 17

Slope = -2.618 units per year.

Mann-Kendall statistic = -90
critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

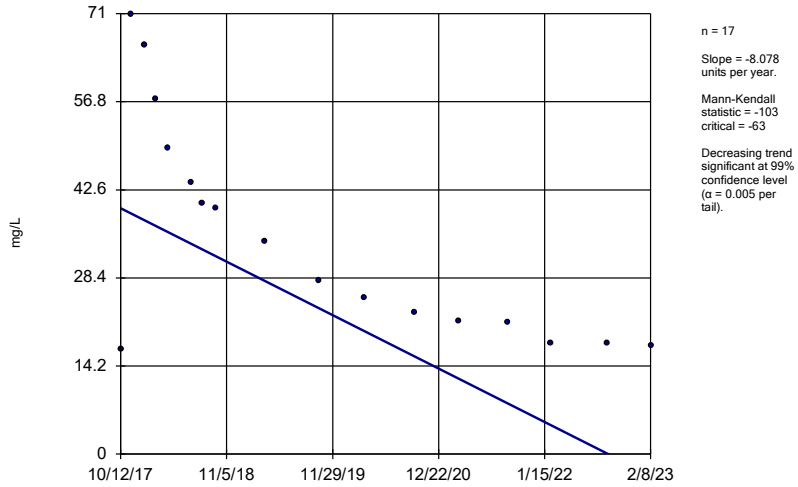
Constituent: Sulfate Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-40 (bg)



n = 17

Slope = -8.078 units per year.

Mann-Kendall statistic = -103
critical = -63

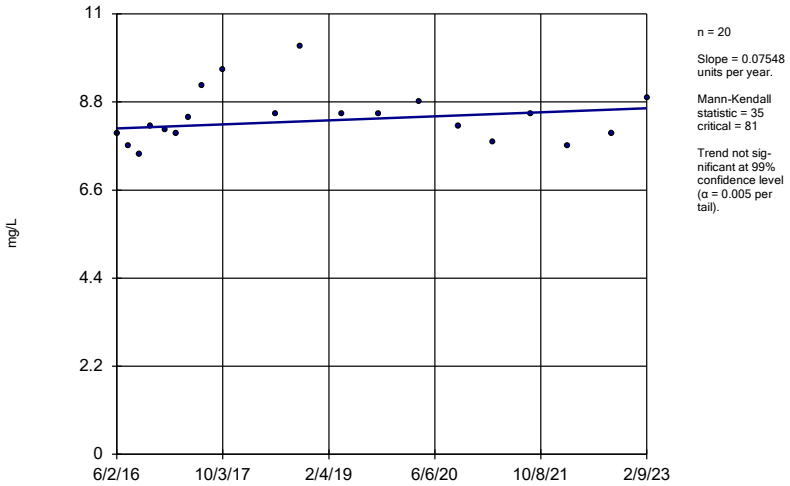
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-4I (bg)



n = 20

Slope = 0.07548 units per year.

Mann-Kendall statistic = 35
critical = 81

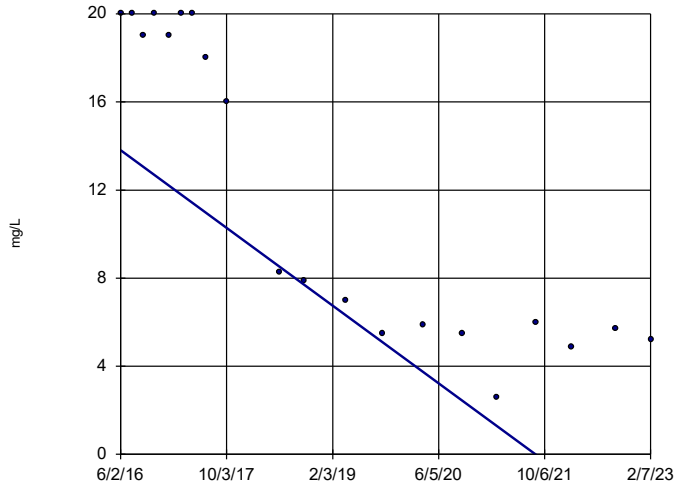
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5D (bg)



n = 20

Slope = -2.638 units per year.

Mann-Kendall statistic = -144
critical = -81

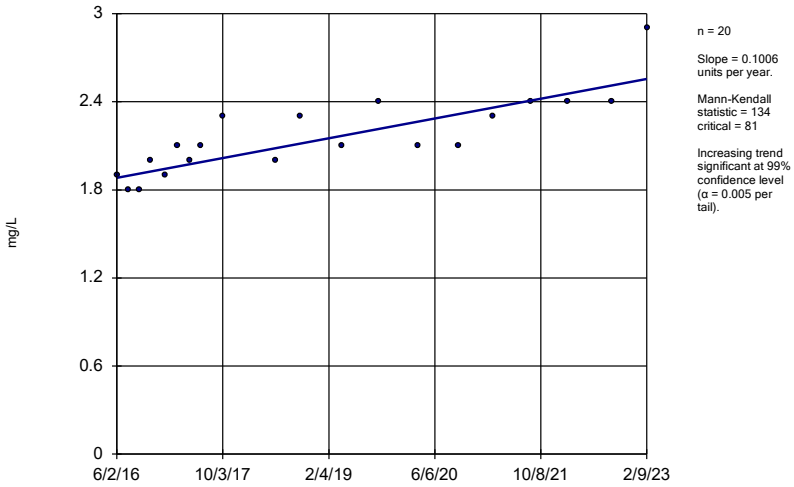
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5I (bg)



n = 20

Slope = 0.1006 units per year.

Mann-Kendall statistic = 134
critical = 81

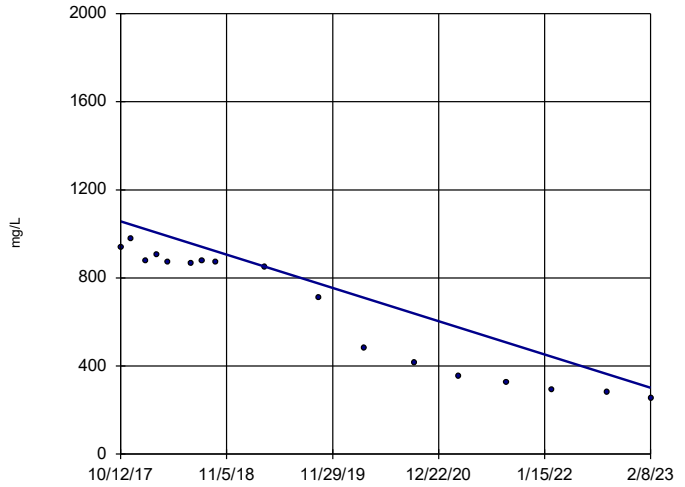
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-38



n = 17

Slope = -141.8 units per year.

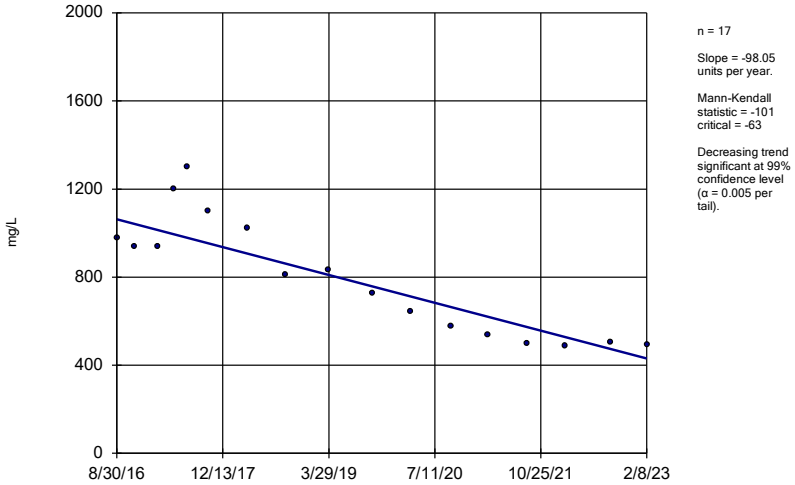
Mann-Kendall statistic = -125
critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWC-42



n = 17

Slope = -98.05 units per year.

Mann-Kendall statistic = -101 critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

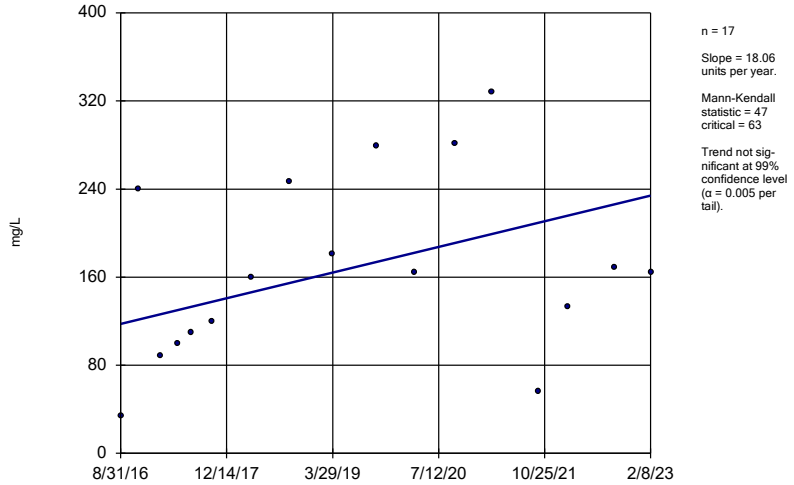
Constituent: Sulfate Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-43



n = 17

Slope = 18.06 units per year.

Mann-Kendall statistic = 47 critical = 63

Trend not significant at 99% confidence level (α = 0.005 per tail).

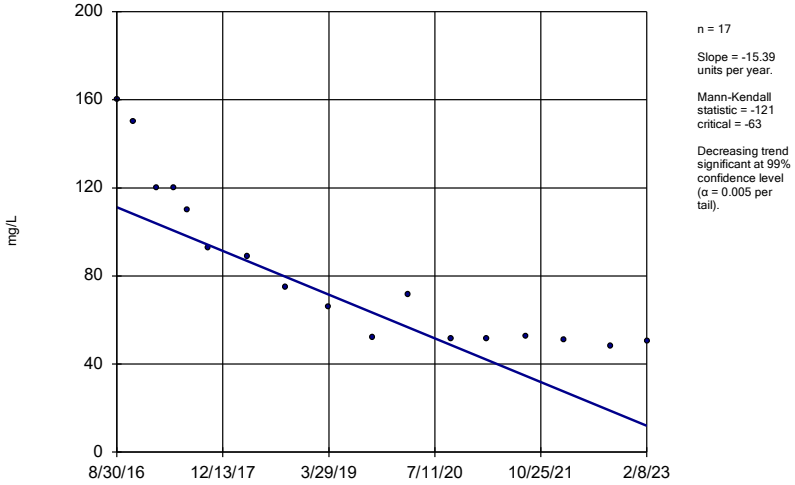
Constituent: Sulfate Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-47 (bg)



n = 17

Slope = -15.39 units per year.

Mann-Kendall statistic = -121 critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

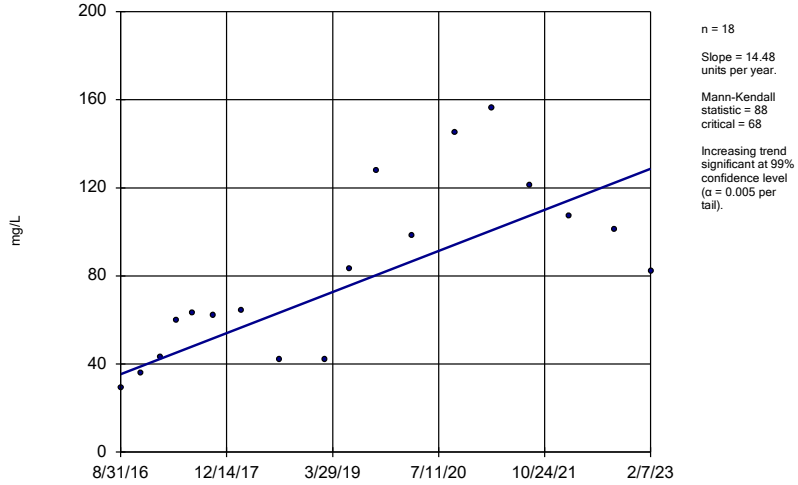
Constituent: Sulfate Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWA-2 (bg)



n = 18

Slope = 14.48 units per year.

Mann-Kendall statistic = 88 critical = 68

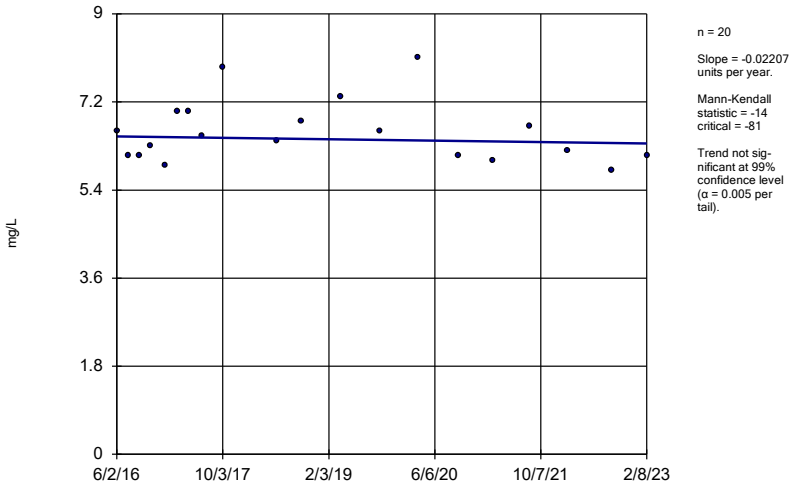
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-14S (bg)



n = 20

Slope = -0.02207 units per year.

Mann-Kendall statistic = -14
critical = -81

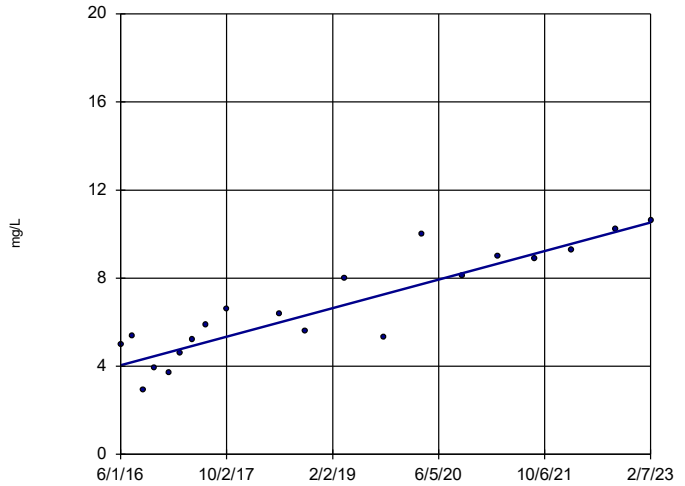
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1D (bg)



n = 20

Slope = 0.9678 units per year.

Mann-Kendall statistic = 140
critical = 81

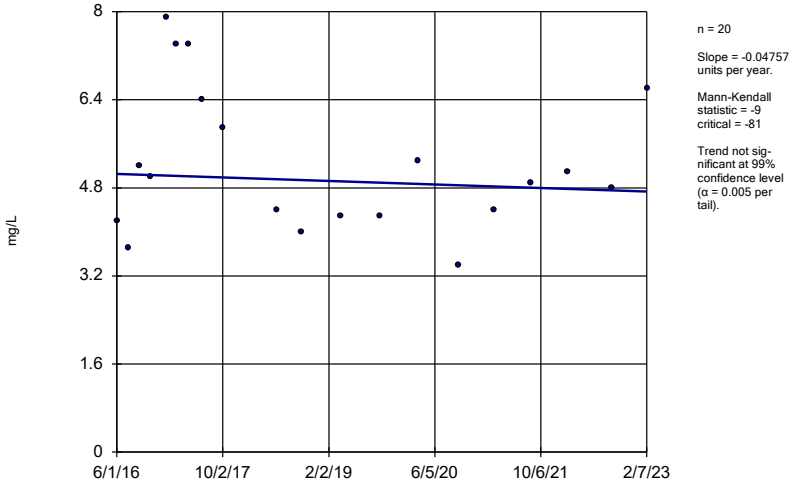
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1I (bg)



n = 20

Slope = -0.04757 units per year.

Mann-Kendall statistic = -9
critical = -81

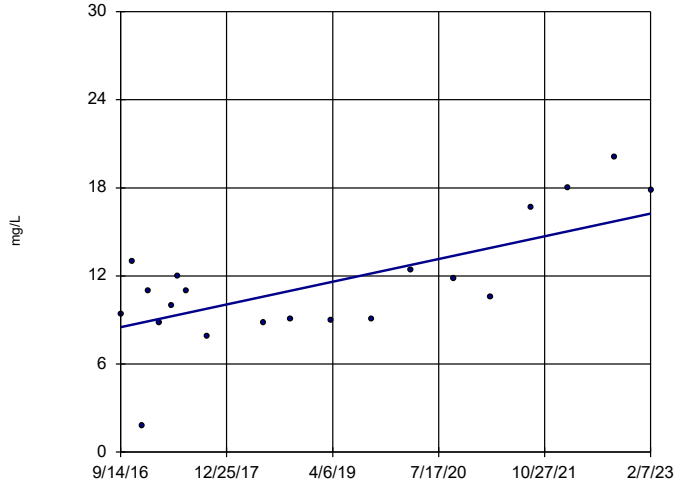
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-2I (bg)



n = 20

Slope = 1.209 units per year.

Mann-Kendall statistic = 77
critical = 81

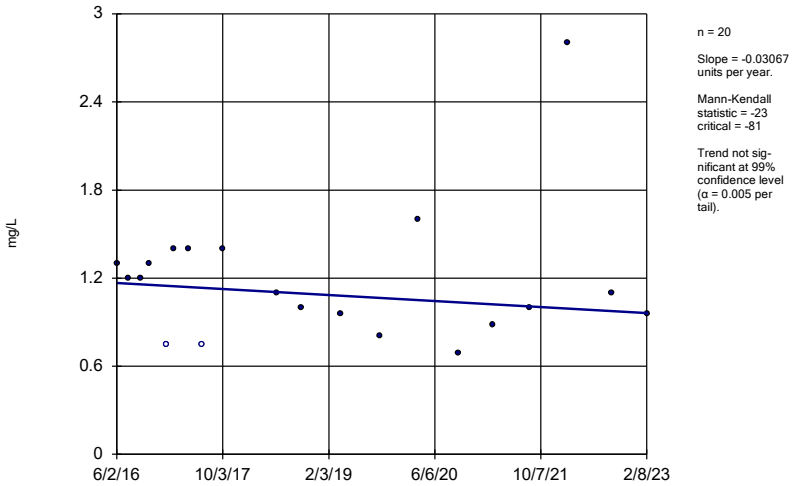
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 20

Slope = -0.03067 units per year.

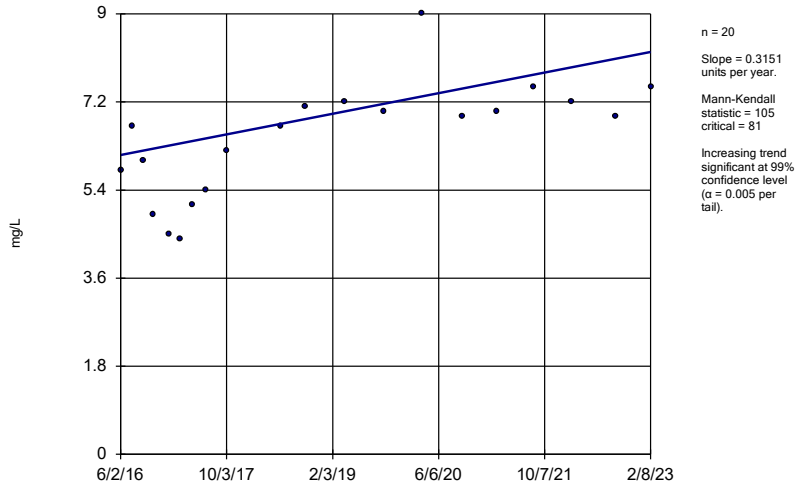
Mann-Kendall statistic = -23
critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-3D (bg)



n = 20

Slope = 0.3151 units per year.

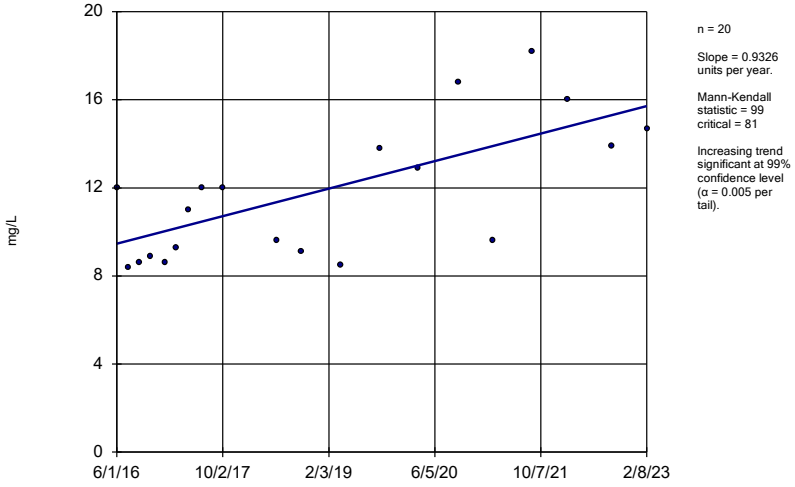
Mann-Kendall statistic = 105
critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-3I (bg)



n = 20

Slope = 0.9326 units per year.

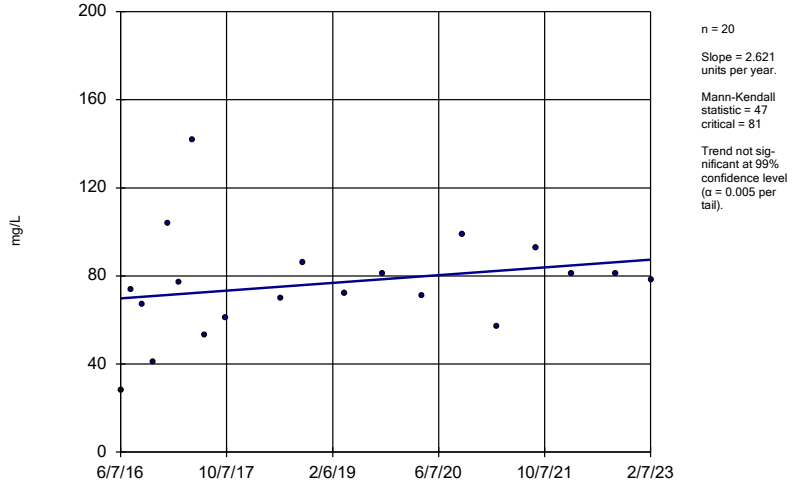
Mann-Kendall statistic = 99
critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-17S (bg)



n = 20

Slope = 2.621 units per year.

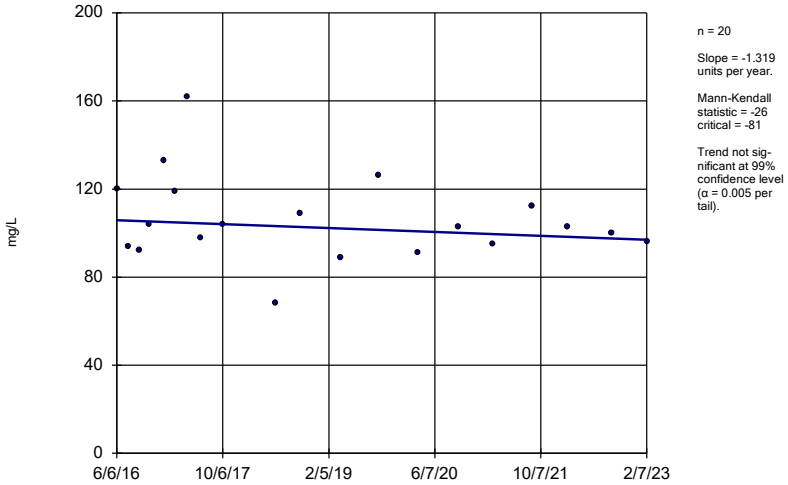
Mann-Kendall statistic = 47
critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-18I (bg)



n = 20

Slope = -1.319 units per year.

Mann-Kendall statistic = -26 critical = -81

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

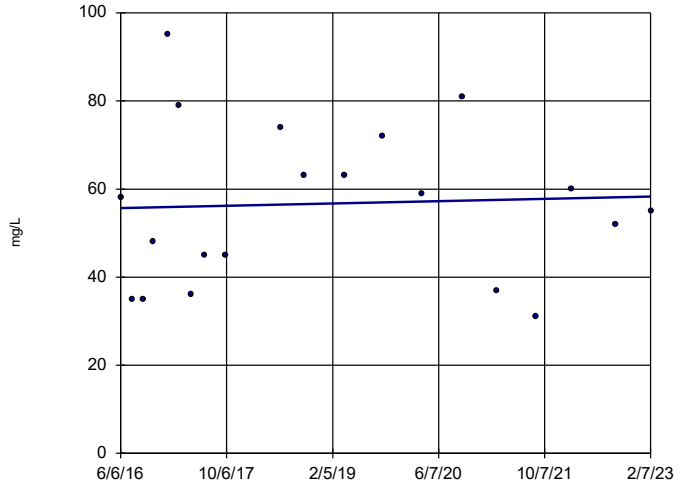
Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18S (bg)



n = 20

Slope = 0.3933 units per year.

Mann-Kendall statistic = 9 critical = 81

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

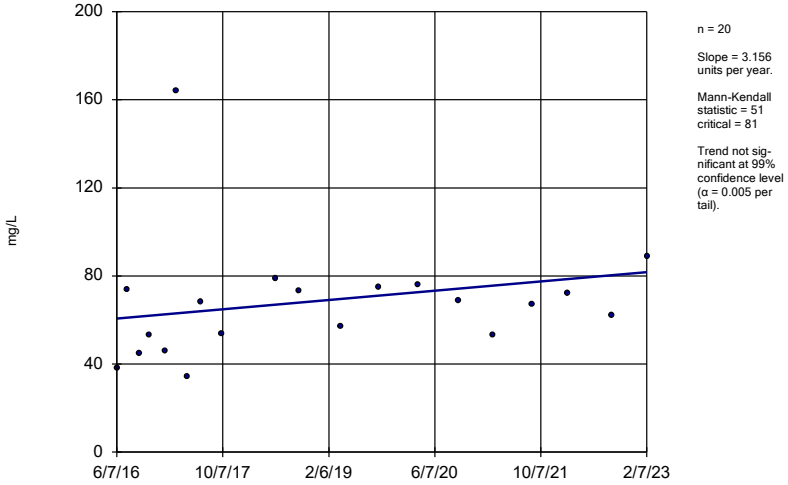
Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-20S (bg)



n = 20

Slope = 3.156 units per year.

Mann-Kendall statistic = 51 critical = 81

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

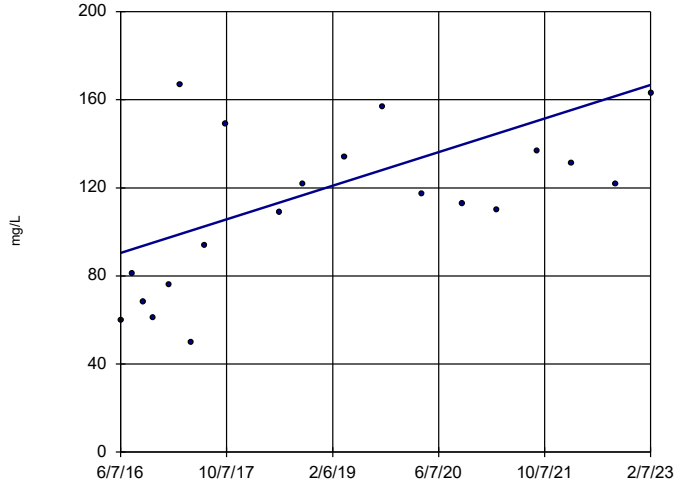
Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-21I (bg)



n = 20

Slope = 11.42 units per year.

Mann-Kendall statistic = 85 critical = 81

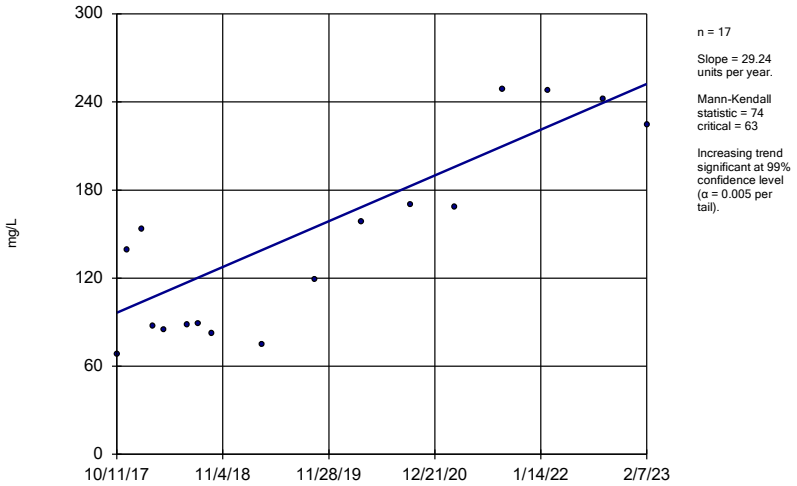
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-39 (bg)



n = 17

Slope = 29.24 units per year.

Mann-Kendall statistic = 74
critical = 63

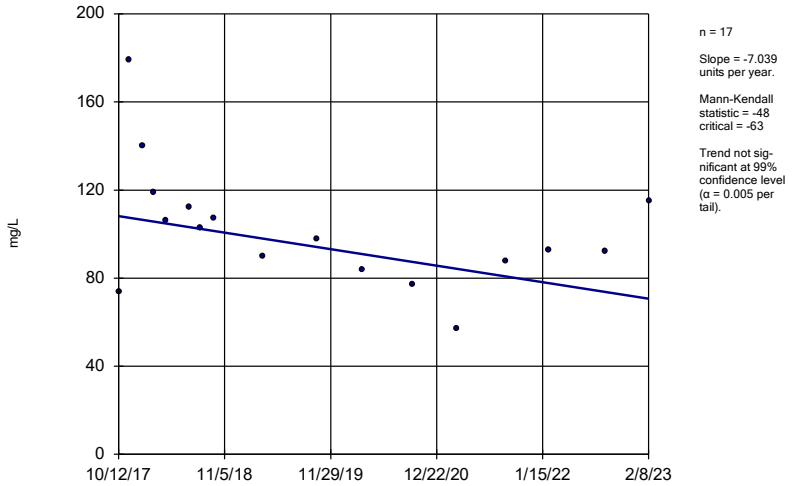
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-40 (bg)



n = 17

Slope = -7.039 units per year.

Mann-Kendall statistic = -48
critical = -63

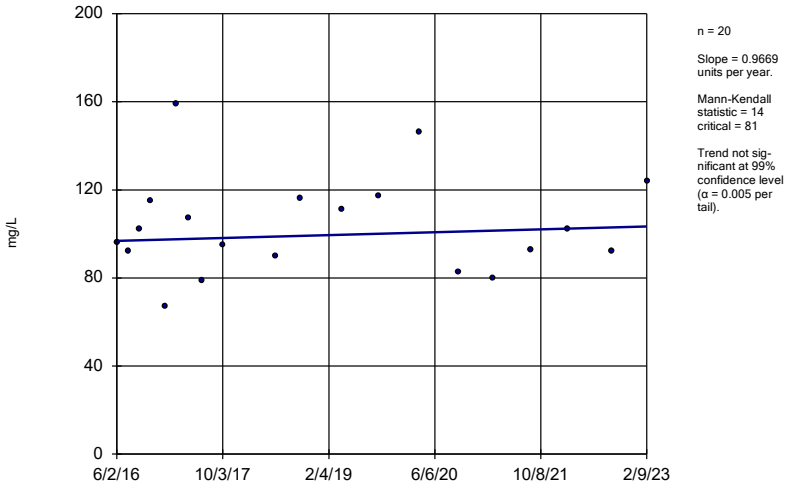
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-4I (bg)



n = 20

Slope = 0.9669 units per year.

Mann-Kendall statistic = 14
critical = 81

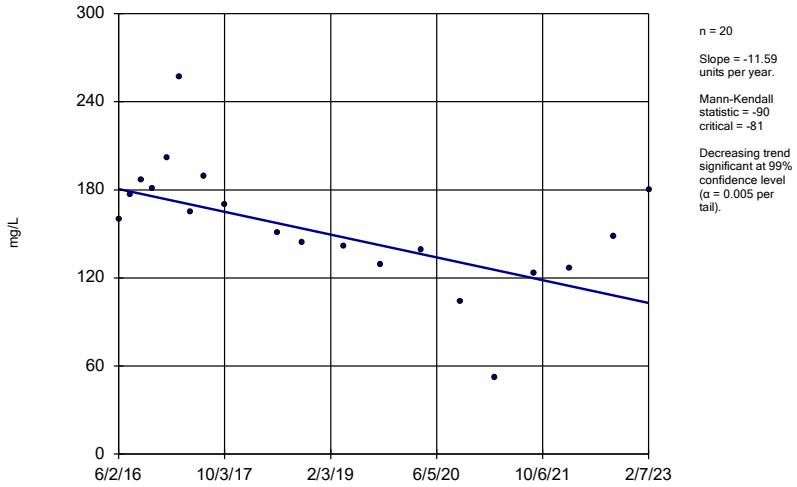
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5D (bg)



n = 20

Slope = -11.59 units per year.

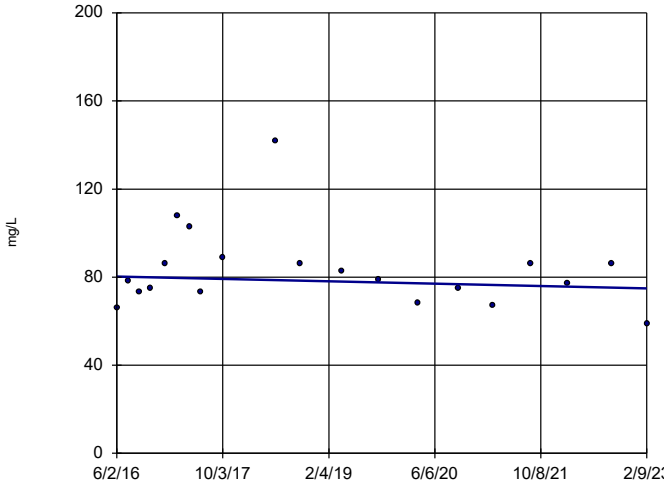
Mann-Kendall statistic = -90
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-5I (bg)



n = 20

Slope = -0.8043 units per year.

Mann-Kendall statistic = -16
critical = -81

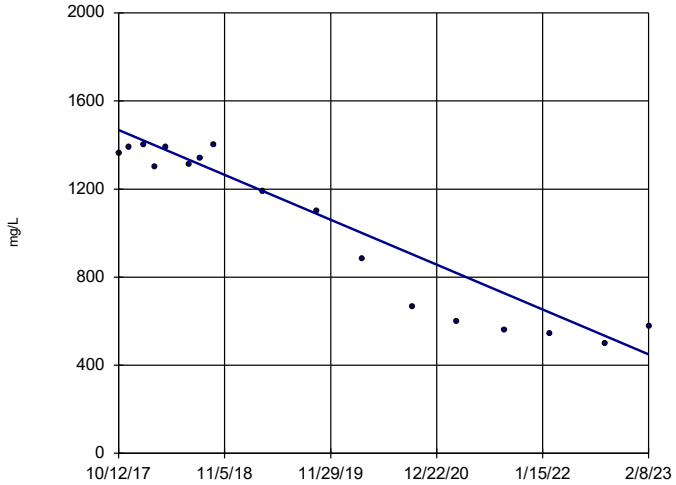
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-38



n = 17

Slope = -191 units per year.

Mann-Kendall statistic = -100
critical = -63

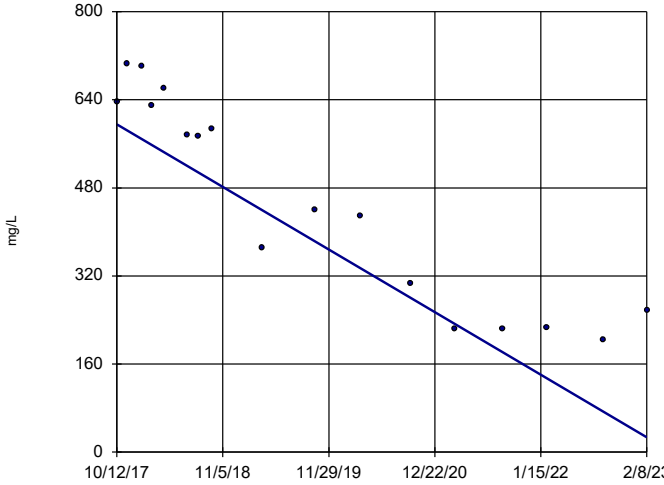
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-41



n = 17

Slope = -106.7 units per year.

Mann-Kendall statistic = -106
critical = -63

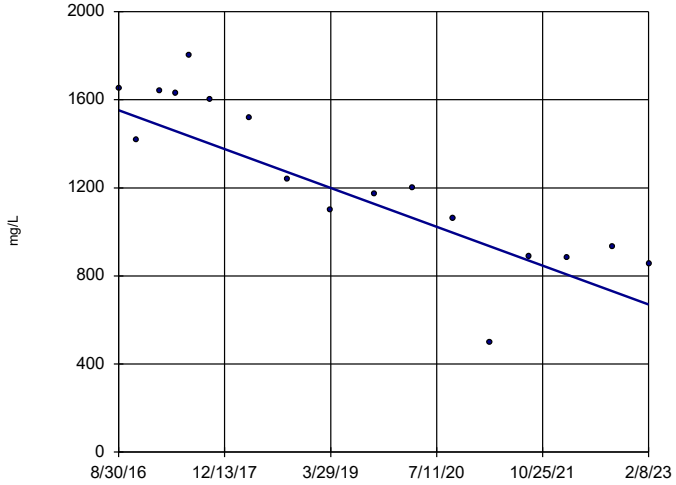
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-42



n = 17

Slope = -136.8 units per year.

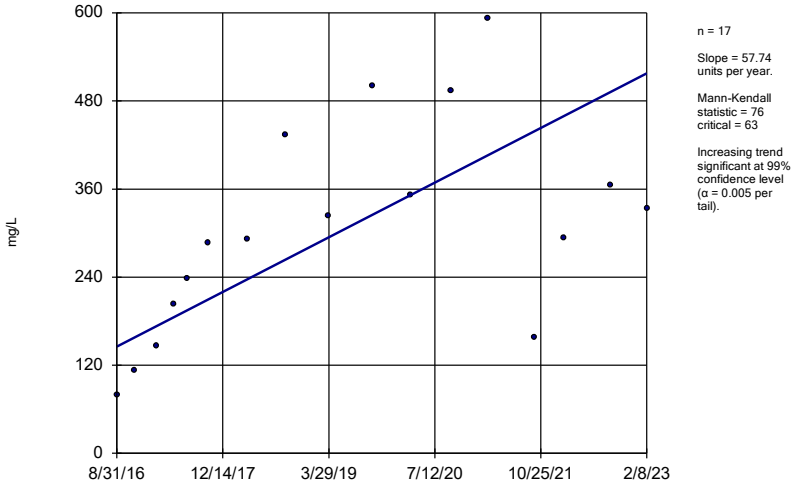
Mann-Kendall statistic = -102
critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWC-43



n = 17

Slope = 57.74 units per year.

Mann-Kendall statistic = 76 critical = 63

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

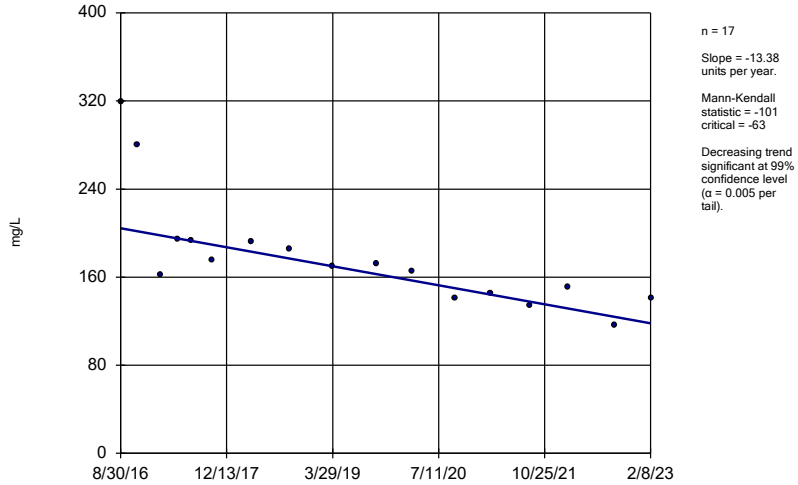
Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-47 (bg)



n = 17

Slope = -13.38 units per year.

Mann-Kendall statistic = -101 critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

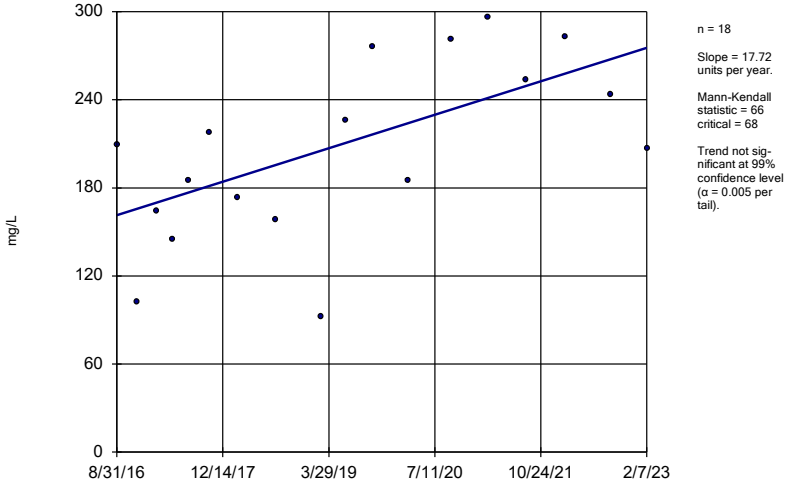
Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWA-2 (bg)



n = 18

Slope = 17.72 units per year.

Mann-Kendall statistic = 66 critical = 68

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

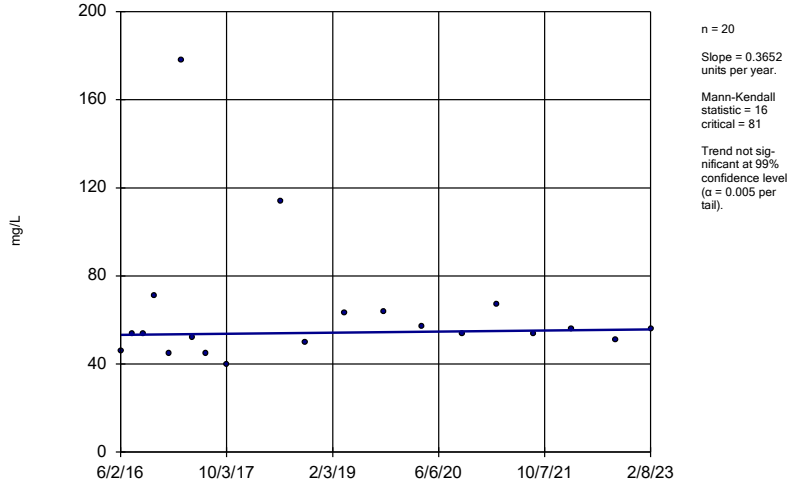
Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-14S (bg)



n = 20

Slope = 0.3652 units per year.

Mann-Kendall statistic = 16 critical = 81

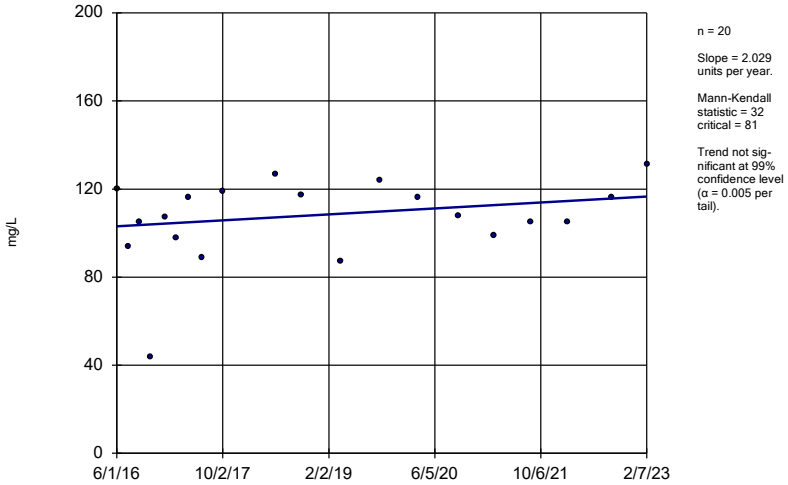
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-1D (bg)



n = 20

Slope = 2.029 units per year.

Mann-Kendall statistic = 32 critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

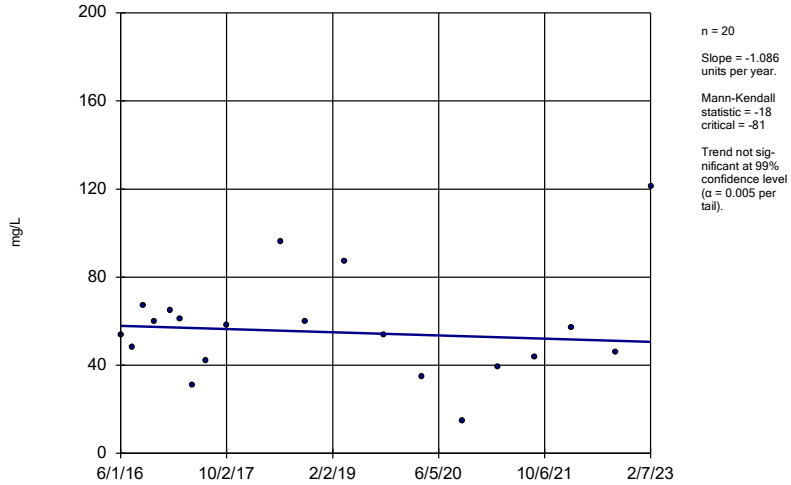
Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1I (bg)



n = 20

Slope = -1.086 units per year.

Mann-Kendall statistic = -18 critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

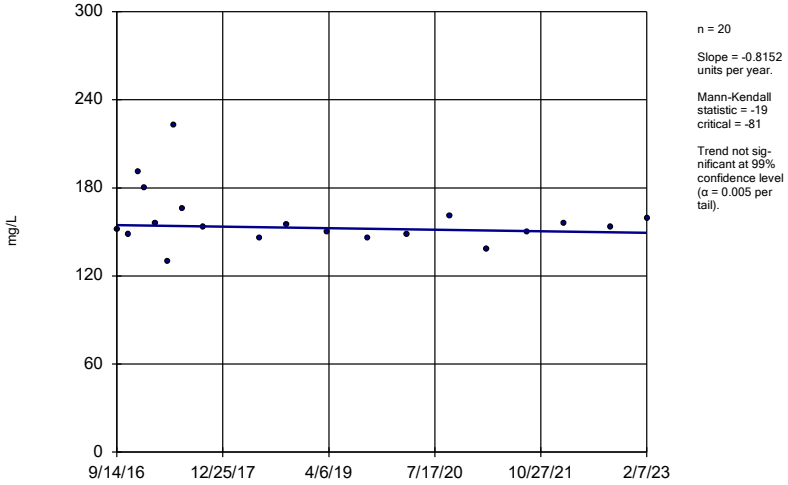
Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-2I (bg)



n = 20

Slope = -0.8152 units per year.

Mann-Kendall statistic = -19 critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests

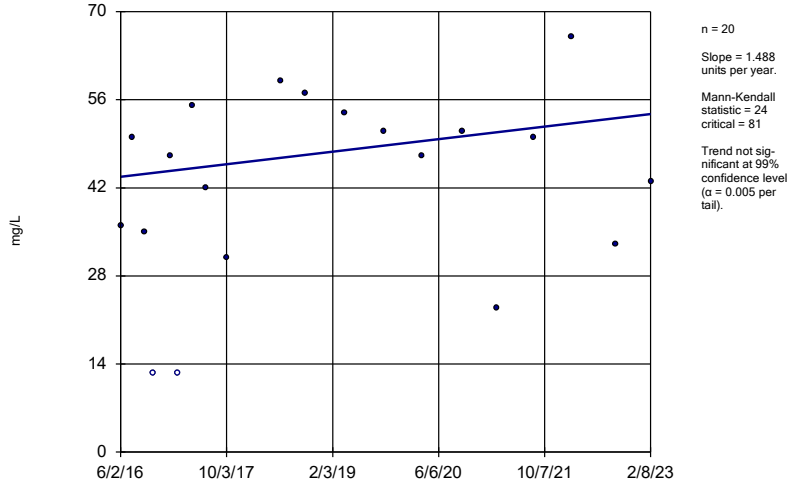
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 20

Slope = 1.488 units per year.

Mann-Kendall statistic = 24 critical = 81

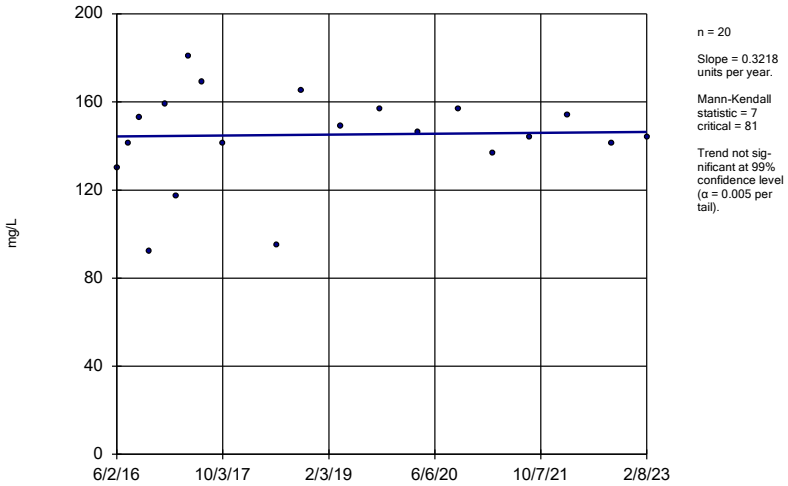
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-3D (bg)



n = 20

Slope = 0.3218 units per year.

Mann-Kendall statistic = 7 critical = 81

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

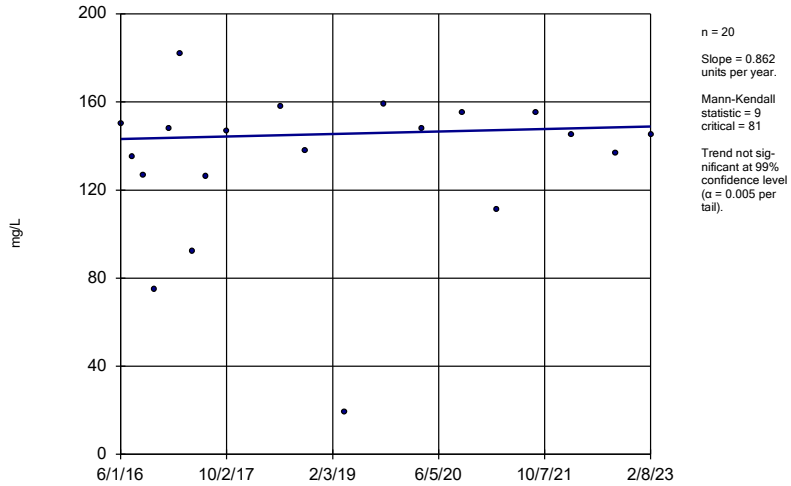
Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3I (bg)



n = 20

Slope = 0.862 units per year.

Mann-Kendall statistic = 9 critical = 81

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

FIGURE F.

Upper Tolerance Limits Summary Table

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/26/2023, 11:28 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.0047	n/a	n/a	n/a	n/a 391	n/a	n/a	87.98	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a 439	n/a	n/a	74.72	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	n/a	0.21	n/a	n/a	n/a	n/a 439	n/a	n/a	2.506	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0011	n/a	n/a	n/a	n/a 423	n/a	n/a	79.43	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.00063	n/a	n/a	n/a	n/a 423	n/a	n/a	94.56	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0093	n/a	n/a	n/a	n/a 391	n/a	n/a	80.05	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.035	n/a	n/a	n/a	n/a 433	n/a	n/a	69.05	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	6.92	n/a	n/a	n/a	n/a 418	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	n/a	0.68	n/a	n/a	n/a	n/a 438	n/a	n/a	64.16	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	n/a	0.0013	n/a	n/a	n/a	n/a 393	n/a	n/a	86.01	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	n/a	0.03	n/a	n/a	n/a	n/a 418	n/a	n/a	25.84	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	n/a	0.00064	n/a	n/a	n/a	n/a 347	n/a	n/a	91.93	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.014	n/a	n/a	n/a	n/a 382	n/a	n/a	60.99	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a 421	n/a	n/a	92.64	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a 357	n/a	n/a	97.2	n/a	n/a	NaN	NP Inter(NDs)

FIGURE G.

YATES AMA-R6 GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.0047	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.21	2
Beryllium, Total (mg/L)	0.004		0.0011	0.004
Cadmium, Total (mg/L)	0.005		0.00063	0.005
Chromium, Total (mg/L)	0.1		0.0093	0.1
Cobalt, Total (mg/L)		0.006	0.035	0.035
Combined Radium, Total (pCi/L)	5		6.92	6.92
Fluoride, Total (mg/L)	4		0.68	4
Lead, Total (mg/L)		0.015	0.0013	0.015
Lithium, Total (mg/L)		0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.00064	0.002
Molybdenum, Total (mg/L)		0.1	0.014	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**Grey cell indicates Background Limit is higher than MCL or CCR Rule Specified Level*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residual*

**GWPS = Groundwater Protection Standard*

FIGURE H.

Confidence Intervals - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/16/2023, 8:25 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	**YGWC-38**	**0.246**	**0.064**	**0.05**	**Yes**	**18**	**0.1496**	**0.08206**	**0**	**None**	**No**	**0.01**	**NP (normality)**
Selenium (mg/L)	**PZ-37**	**0.2801**	**0.2029**	**0.05**	**Yes**	**15**	**0.2415**	**0.05697**	**0**	**None**	**No**	**0.01**	**Param.**

Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/16/2023, 8:25 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	PZ-35	0.003	0.00039	0.006	No	9	0.00271	0.00087	88.89	None	No	0.002	NP (NDs)
Antimony (mg/L)	PZ-37	0.003	0.0014	0.006	No	15	0.002577	0.0008973	80	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-37D	0.003	0.0015	0.006	No	4	0.002625	0.00075	75	None	No	0.0625	NP (NDs)
Antimony (mg/L)	YAMW-1	0.025	0.00037	0.006	No	9	0.00493	0.007581	55.56	None	No	0.002	NP (NDs)
Antimony (mg/L)	YAMW-4	0.003	0.00062	0.006	No	7	0.002053	0.001191	57.14	None	No	0.008	NP (NDs)
Antimony (mg/L)	YAMW-5	0.003	0.00033	0.006	No	7	0.002619	0.001009	85.71	None	No	0.008	NP (NDs)
Antimony (mg/L)	YGWC-23S	0.003	0.00085	0.006	No	20	0.002633	0.000901	85	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-24SB	0.003	0.0009	0.006	No	19	0.002889	0.0004818	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-36A	0.0041	0.0015	0.006	No	20	0.0039	0.00582	50	None	No	0.01	NP (normality)
Antimony (mg/L)	YGWC-38	0.003	0.0015	0.006	No	17	0.002474	0.001003	76.47	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-41	0.003	0.0014	0.006	No	17	0.002906	0.0003881	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-42	0.003	0.00053	0.006	No	17	0.002855	0.0005991	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-43	0.003	0.00031	0.006	No	17	0.002842	0.0006524	94.12	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-49	0.003	0.0011	0.006	No	17	0.002743	0.0007326	88.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-35	0.005	0.00096	0.01	No	10	0.003625	0.001858	60	Kaplan-Meier	No	0.011	NP (NDs)
Arsenic (mg/L)	PZ-37	0.005	0.00094	0.01	No	15	0.002709	0.001955	40	None	No	0.01	NP (normality)
Arsenic (mg/L)	YAMW-1	0.005	0.0034	0.01	No	10	0.00457	0.0009429	80	None	No	0.011	NP (NDs)
Arsenic (mg/L)	YAMW-4	0.005	0.00079	0.01	No	7	0.003299	0.001867	42.86	None	No	0.008	NP (normality)
Arsenic (mg/L)	YAMW-5	0.003443	0.0008822	0.01	No	7	0.003379	0.001754	42.86	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	YGWC-23S	0.005	0.0025	0.01	No	22	0.004714	0.0009483	90.91	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-24SB	0.005	0.0035	0.01	No	21	0.004638	0.000962	85.71	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-36A	0.005	0.0047	0.01	No	22	0.004038	0.001789	72.73	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-38	0.0023	0.00072	0.01	No	18	0.002026	0.001701	22.22	None	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-41	0.005	0.00072	0.01	No	18	0.003062	0.002064	50	None	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-42	0.002295	0.001445	0.01	No	18	0.002471	0.001327	16.67	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	YGWC-43	0.005	0.0022	0.01	No	18	0.004039	0.001695	72.22	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-49	0.005	0.001	0.01	No	17	0.004262	0.001644	82.35	Kaplan-Meier	No	0.01	NP (NDs)
Barium (mg/L)	PZ-35	0.09056	0.03164	2	No	10	0.0611	0.03302	0	None	No	0.01	Param.
Barium (mg/L)	PZ-37	0.05259	0.03422	2	No	15	0.04341	0.01356	0	None	No	0.01	Param.
Barium (mg/L)	PZ-37D	0.033	0.013	2	No	4	0.01975	0.009069	0	None	No	0.0625	NP (selected)
Barium (mg/L)	YAMW-1	0.07559	0.03621	2	No	10	0.0559	0.02207	0	None	No	0.01	Param.
Barium (mg/L)	YAMW-2	0.009272	0.006756	2	No	7	0.008014	0.001059	0	None	No	0.01	Param.
Barium (mg/L)	YAMW-4	0.021	0.003	2	No	7	0.008614	0.008204	0	None	No	0.008	NP (normality)
Barium (mg/L)	YAMW-5	0.057	0.034	2	No	7	0.04014	0.007988	0	None	No	0.008	NP (normality)
Barium (mg/L)	YGWC-23S	0.04724	0.03277	2	No	22	0.04	0.01348	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-24SB	0.025	0.019	2	No	21	0.0215	0.004108	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-36A	0.04891	0.03307	2	No	22	0.04189	0.016	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	YGWC-38	0.02241	0.01731	2	No	18	0.01986	0.00422	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-41	0.02814	0.02032	2	No	18	0.02423	0.006464	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-42	0.04281	0.02937	2	No	18	0.03609	0.01111	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-43	0.03348	0.01907	2	No	18	0.02627	0.01191	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-49	0.07733	0.06751	2	No	17	0.07242	0.007833	0	None	No	0.01	Param.
Beryllium (mg/L)	PZ-35	0.003	0.00025	0.004	No	11	0.00092	0.001041	18.18	None	No	0.006	NP (normality)
Beryllium (mg/L)	PZ-37	0.0008051	0.0002982	0.004	No	15	0.000632	0.0004727	13.33	None	ln(x)	0.01	Param.
Beryllium (mg/L)	YAMW-1	0.0005	0.000095	0.004	No	10	0.0002913	0.000198	40	None	No	0.011	NP (normality)
Beryllium (mg/L)	YAMW-2	0.0005	0.000051	0.004	No	7	0.000186	0.0002146	28.57	None	No	0.008	NP (normality)
Beryllium (mg/L)	YAMW-5	0.0001549	0.0001016	0.004	No	8	0.0001283	0.0000251	0	None	No	0.01	Param.
Beryllium (mg/L)	YGWC-23S	0.00023	0.00009	0.004	No	22	0.0007785	0.001234	22.73	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-24SB	0.00016	0.0001	0.004	No	21	0.000315	0.0004966	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-36A	0.0003907	0.0001957	0.004	No	22	0.0003436	0.000292	4.545	None	ln(x)	0.01	Param.
Beryllium (mg/L)	YGWC-38	0.0056	0.0028	0.004	No	18	0.004228	0.001375	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-41	0.0037	0.0015	0.004	No	18	0.002633	0.001035	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-42	0.0005	0.000067	0.004	No	18	0.0003348	0.0002133	61.11	None	No	0.01	NP (NDs)
Beryllium (mg/L)	YGWC-43	0.003	0.0003	0.004	No	18	0.001234	0.00129	33.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-49	0.00015	0.0001	0.004	No	17	0.0001994	0.0003358	5.882	None	No	0.01	NP (normality)

Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/16/2023, 8:25 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cadmium (mg/L)	PZ-35	0.0005	0.00016	0.005	No	10	0.000402	0.0001613	70	None	No	0.011	NP (NDs)
Cadmium (mg/L)	PZ-37	0.000768	0.000396	0.005	No	15	0.000582	0.0002745	13.33	None	No	0.01	Param.
Cadmium (mg/L)	YAMW-1	0.0005	0.00014	0.005	No	10	0.0003	0.0001742	40	None	No	0.011	NP (normality)
Cadmium (mg/L)	YAMW-2	0.0005	0.00015	0.005	No	7	0.00045	0.0001323	85.71	None	No	0.008	NP (NDs)
Cadmium (mg/L)	YAMW-5	0.00046	0.00018	0.005	No	7	0.0002471	0.00009725	0	None	No	0.008	NP (normality)
Cadmium (mg/L)	YGWC-23S	0.0005	0.00007	0.005	No	22	0.0004805	0.00009168	95.45	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-36A	0.0005	0.00018	0.005	No	22	0.00029	0.0001654	36.36	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-38	0.0029	0.0011	0.005	No	18	0.00204	0.0008076	0	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-41	0.0005	0.00017	0.005	No	18	0.0003144	0.0001576	38.89	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-42	0.0005	0.0002	0.005	No	18	0.0003839	0.0001649	50	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-49	0.0005	0.00007	0.005	No	17	0.0004747	0.0001043	94.12	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-35	0.005	0.0006	0.1	No	8	0.002464	0.002127	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	PZ-37	0.005	0.0019	0.1	No	15	0.004307	0.001446	80	None	No	0.01	NP (NDs)
Chromium (mg/L)	YAMW-1	0.005	0.00058	0.1	No	8	0.002422	0.002145	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	YAMW-2	0.005	0.00071	0.1	No	7	0.003001	0.002004	42.86	None	No	0.008	NP (normality)
Chromium (mg/L)	YAMW-4	0.005	0.00057	0.1	No	7	0.004367	0.001674	85.71	None	No	0.008	NP (NDs)
Chromium (mg/L)	YAMW-5	0.005	0.0016	0.1	No	7	0.004514	0.001285	85.71	None	No	0.008	NP (NDs)
Chromium (mg/L)	YGWC-23S	0.005	0.00086	0.1	No	18	0.003474	0.001985	61.11	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-24SB	0.005	0.0011	0.1	No	17	0.004302	0.001554	82.35	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-36A	0.005	0.0035	0.1	No	18	0.004249	0.001542	77.78	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-38	0.005	0.00065	0.1	No	18	0.004508	0.001431	88.89	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-41	0.005	0.00039	0.1	No	18	0.004744	0.001087	94.44	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-42	0.005	0.0013	0.1	No	18	0.004296	0.001627	83.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-43	0.005	0.00074	0.1	No	18	0.004032	0.001865	77.78	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-49	0.002	0.0016	0.1	No	16	0.001975	0.0008434	6.25	None	No	0.01	NP (normality)
Cobalt (mg/L)	PZ-35	0.005	0.005	0.035	No	10	0.00509	0.0002846	90	None	No	0.011	NP (NDs)
Cobalt (mg/L)	PZ-37	0.01012	0.003723	0.035	No	15	0.007327	0.004972	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YAMW-1	0.0223	0.00592	0.035	No	11	0.01424	0.01018	18.18	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	YAMW-2	0.00446	0.0003166	0.035	No	7	0.002153	0.002202	14.29	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YAMW-4	0.0008857	0.0003514	0.035	No	7	0.0006186	0.0002249	0	None	No	0.01	Param.
Cobalt (mg/L)	YAMW-5	0.005	0.00077	0.035	No	7	0.004396	0.001599	85.71	None	No	0.008	NP (NDs)
Cobalt (mg/L)	YGWC-36A	0.005	0.00086	0.035	No	22	0.003986	0.001915	77.27	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-41	0.005	0.0011	0.035	No	18	0.004022	0.00189	77.78	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-42	0.002174	0.001682	0.035	No	18	0.001928	0.000407	5.556	None	No	0.01	Param.
Cobalt (mg/L)	YGWC-43	0.005	0.0006	0.035	No	18	0.002886	0.00189	38.89	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-49	0.005	0.0008	0.035	No	17	0.003971	0.001914	76.47	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	PZ-35	0.9597	0.2765	6.92	No	9	0.6181	0.3538	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-37	1.896	1.126	6.92	No	15	1.511	0.568	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-37D	3.18	0.815	6.92	No	4	2.226	1.003	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	PZ-52D	1.52	0.218	6.92	No	4	0.671	0.613	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	YAMW-1	0.6923	0.3112	6.92	No	9	0.5018	0.1974	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YAMW-2	0.959	0	6.92	No	7	0.4222	0.3711	0	None	No	0.008	NP (selected)
Combined Radium 226 + 228 (pCi/L)	YAMW-4	1.111	0.1315	6.92	No	7	0.6214	0.4125	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YAMW-5	1.335	0.5175	6.92	No	7	0.9264	0.3443	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-23S	0.7919	0.3878	6.92	No	22	0.5899	0.3764	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-24SB	0.7571	0.4643	6.92	No	21	0.6107	0.2653	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-36A	0.982	0.4999	6.92	No	22	0.741	0.449	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-38	1.163	0.5665	6.92	No	18	0.8648	0.4931	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-41	1.183	0.5318	6.92	No	18	0.9081	0.5677	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-42	2.361	0.9873	6.92	No	18	1.791	1.204	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-43	3.858	1.728	6.92	No	18	2.793	1.76	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-49	1.044	0.4995	6.92	No	17	0.7719	0.4349	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-37	0.26	0.1	4	No	15	0.1567	0.1072	73.33	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-37D	0.4234	0.0116	4	No	4	0.2175	0.09069	0	None	No	0.01	Param.
Fluoride (mg/L)	YAMW-2	0.1	0.061	4	No	7	0.08914	0.01855	71.43	None	No	0.008	NP (NDs)

Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/16/2023, 8:25 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	YAMW-4	0.1107	0.06478	4	No	7	0.1053	0.02559	42.86	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YAMW-5	0.1	0.05	4	No	7	0.08643	0.02322	71.43	Kaplan-Meier	No	0.008	NP (NDs)
Fluoride (mg/L)	YGWC-23S	0.12	0.057	4	No	23	0.09374	0.02005	82.61	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-24SB	0.1	0.098	4	No	22	0.09464	0.01727	86.36	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-36A	0.1	0.094	4	No	23	0.09374	0.02997	69.57	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-38	0.21	0.034	4	No	19	0.1486	0.107	68.42	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-41	0.11	0.1	4	No	19	0.1005	0.002294	89.47	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-42	0.1	0.06	4	No	19	0.08547	0.0247	68.42	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-43	0.1061	0.06255	4	No	19	0.1037	0.04885	21.05	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride (mg/L)	YGWC-49	0.14	0.09	4	No	18	0.09944	0.02363	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Lead (mg/L)	PZ-35	0.001	0.000087	0.015	No	9	0.0008041	0.000389	77.78	None	No	0.002	NP (NDs)
Lead (mg/L)	PZ-37	0.001	0.0001	0.015	No	15	0.0007115	0.0004235	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YAMW-1	0.001	0.00019	0.015	No	9	0.00091	0.00027	88.89	None	No	0.002	NP (NDs)
Lead (mg/L)	YAMW-2	0.001	0.00008	0.015	No	7	0.0007414	0.0004417	71.43	None	No	0.008	NP (NDs)
Lead (mg/L)	YAMW-4	0.001	0.000096	0.015	No	7	0.0007023	0.000393	57.14	None	No	0.008	NP (NDs)
Lead (mg/L)	YAMW-5	0.001	0.000041	0.015	No	7	0.0006034	0.000495	57.14	None	No	0.008	NP (NDs)
Lead (mg/L)	YGWC-23S	0.001	0.00044	0.015	No	20	0.0008413	0.0003325	80	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-24SB	0.001	0.00036	0.015	No	19	0.0009165	0.0002554	89.47	Kaplan-Meier	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-36A	0.0004641	0.0001697	0.015	No	20	0.0005965	0.0004298	30	Kaplan-Meier	sqrt(x)	0.01	Param.
Lead (mg/L)	YGWC-38	0.001	0.0001	0.015	No	18	0.00085	0.0003451	83.33	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-41	0.0011	0.0002	0.015	No	18	0.0008087	0.0003836	72.22	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-42	0.001	0.0002	0.015	No	18	0.0007995	0.0003871	77.78	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-43	0.001	0.00008	0.015	No	18	0.0008975	0.0002983	88.89	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-49	0.001	0.000059	0.015	No	17	0.0009446	0.0002282	94.12	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-35	0.011	0.0011	0.04	No	10	0.00399	0.004873	10	None	No	0.011	NP (normality)
Lithium (mg/L)	PZ-37	0.032	0.017	0.04	No	15	0.03158	0.02645	6.667	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-37D	0.0167	0.0007531	0.04	No	4	0.008725	0.003511	0	None	No	0.01	Param.
Lithium (mg/L)	YAMW-1	0.02048	0.007982	0.04	No	10	0.01423	0.007003	10	None	No	0.01	Param.
Lithium (mg/L)	YAMW-3	0.05992	0.03258	0.04	No	4	0.04625	0.006021	0	None	No	0.01	Param.
Lithium (mg/L)	YAMW-4	0.03625	0.02086	0.04	No	7	0.02886	0.006986	0	None	x^2	0.01	Param.
Lithium (mg/L)	YAMW-5	0.01608	0.01306	0.04	No	7	0.01457	0.001272	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-23S	0.002681	0.002065	0.04	No	22	0.002373	0.0005742	4.545	None	No	0.01	Param.
Lithium (mg/L)	YGWC-36A	0.005916	0.002611	0.04	No	22	0.004649	0.003238	4.545	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	YGWC-38	0.008605	0.007139	0.04	No	18	0.007872	0.001211	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-41	0.0043	0.0021	0.04	No	18	0.004378	0.005232	5.556	None	No	0.01	NP (normality)
Lithium (mg/L)	YGWC-42	0.04908	0.03408	0.04	No	18	0.04158	0.01239	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-43	0.01791	0.01204	0.04	No	18	0.01497	0.00485	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-49	0.003802	0.003463	0.04	No	17	0.003635	0.0002737	0	None	sqrt(x)	0.01	Param.
Mercury (mg/L)	PZ-37	0.0002	0.00019	0.002	No	15	0.00019	0.00003606	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-23S	0.0002	0.00015	0.002	No	17	0.0001911	0.00002686	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-38	0.0002	0.00008	0.002	No	15	0.0001811	0.00005045	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-41	0.0002	0.00006	0.002	No	15	0.0001907	0.00003615	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-42	0.0002	0.000048	0.002	No	15	0.0001899	0.00003925	93.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-43	0.0002	0.00009	0.002	No	15	0.0001828	0.00004596	86.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-49	0.0002	0.00014	0.002	No	14	0.0001858	0.00003931	85.71	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-35	0.01	0.0019	0.1	No	8	0.008987	0.002864	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	PZ-37	0.01	0.0015	0.1	No	15	0.005607	0.004265	46.67	None	No	0.01	NP (normality)
Molybdenum (mg/L)	PZ-37D	0.0059	0.0018	0.1	No	4	0.00345	0.001816	0	None	No	0.0625	NP (selected)
Molybdenum (mg/L)	YAMW-1	0.00368	0.001155	0.1	No	8	0.005249	0.004059	37.5	Kaplan-Meier	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	YAMW-4	0.008272	0.005785	0.1	No	7	0.007029	0.001047	0	None	No	0.01	Param.
Molybdenum (mg/L)	YGWC-36A	0.01	0.0027	0.1	No	18	0.007722	0.003508	66.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-42	0.01	0.00081	0.1	No	18	0.00426	0.004226	33.33	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-43	0.01	0.0012	0.1	No	18	0.005039	0.004227	38.89	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-49	0.01	0.0007	0.1	No	16	0.009419	0.002325	93.75	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-35	0.005	0.003	0.05	No	10	0.0042	0.001195	60	None	No	0.011	NP (NDs)

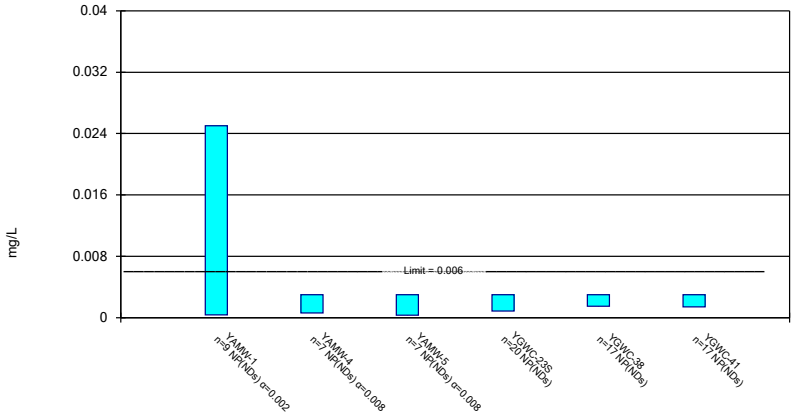
Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/16/2023, 8:25 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	**PZ-37**	**0.2801**	**0.2029**	**0.05**	**Yes**	**15**	**0.2415**	**0.05697**	**0**	**None**	**No**	**0.01**	**Param.**
Selenium (mg/L)	YAMW-1	0.005	0.0027	0.05	No	10	0.00422	0.001164	50	None	No	0.011	NP (normality)
Selenium (mg/L)	YAMW-4	0.02008	0.001939	0.05	No	8	0.01322	0.008018	25	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	YAMW-5	0.06099	0.04008	0.05	No	8	0.0505	0.01135	0	None	x^2	0.01	Param.
Selenium (mg/L)	YGWC-23S	0.03882	0.02843	0.05	No	22	0.03362	0.009677	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-36A	0.005	0.002	0.05	No	22	0.003477	0.001403	40.91	None	No	0.01	NP (normality)
Selenium (mg/L)	**YGWC-38**	**0.246**	**0.064**	**0.05**	**Yes**	**18**	**0.1496**	**0.08206**	**0**	**None**	**No**	**0.01**	**NP (normality)**
Selenium (mg/L)	YGWC-41	0.067	0.031	0.05	No	18	0.04877	0.01783	0	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-42	0.05382	0.04031	0.05	No	18	0.04706	0.01116	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-49	0.008439	0.006573	0.05	No	17	0.007506	0.001489	5.882	None	No	0.01	Param.
Thallium (mg/L)	YGWC-49	0.001	0.00009	0.002	No	15	0.0009393	0.000235	93.33	None	No	0.01	NP (NDs)

Non-Parametric Confidence Interval

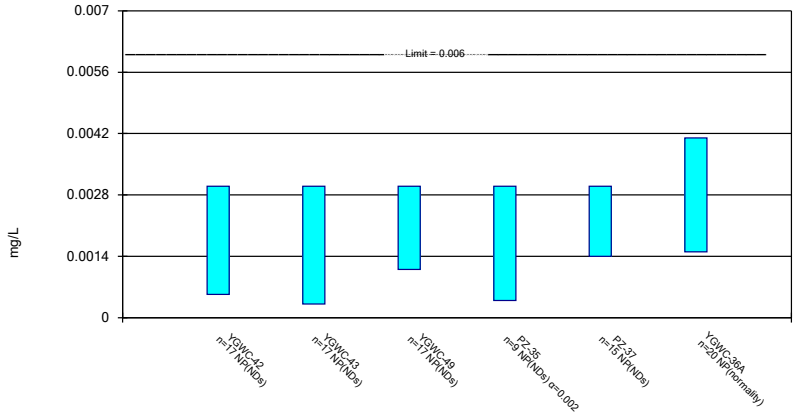
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Antimony Analysis Run 5/16/2023 8:20 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

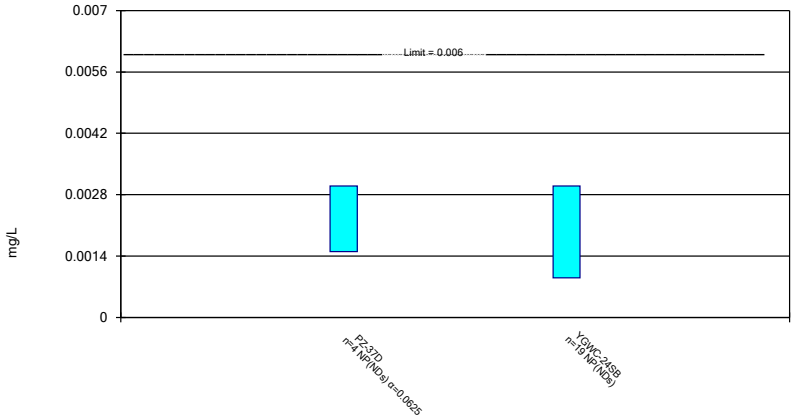
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Antimony Analysis Run 5/16/2023 8:20 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

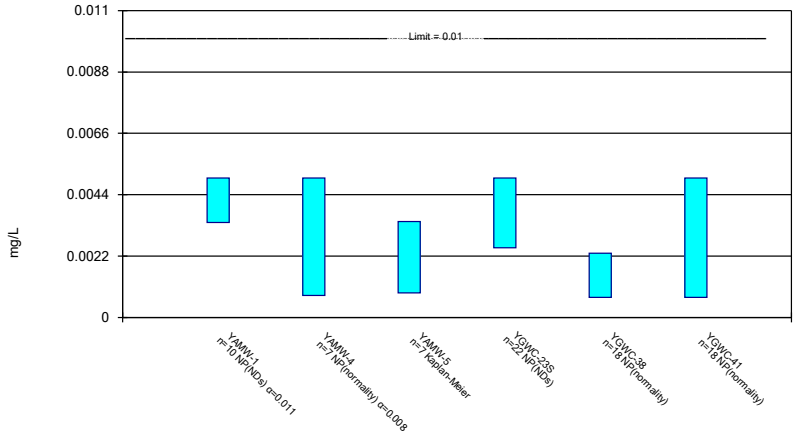
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Antimony Analysis Run 5/16/2023 8:20 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

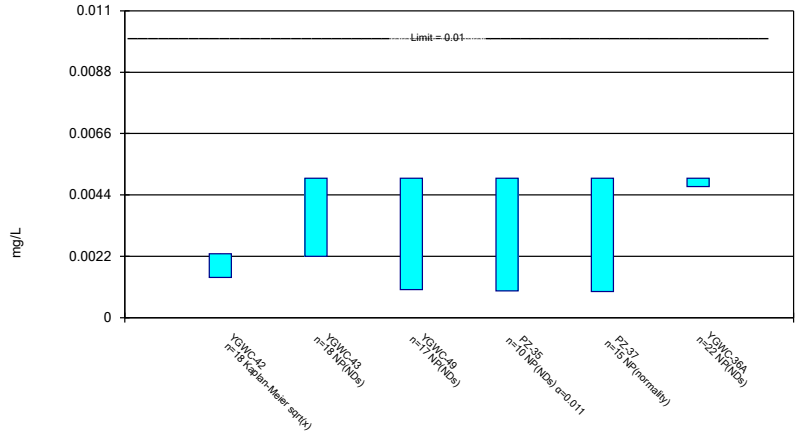
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 5/16/2023 8:20 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

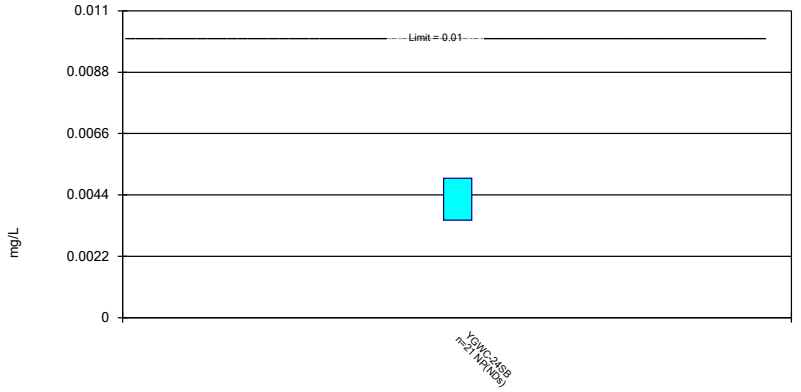


Constituent: Arsenic Analysis Run 5/16/2023 8:20 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

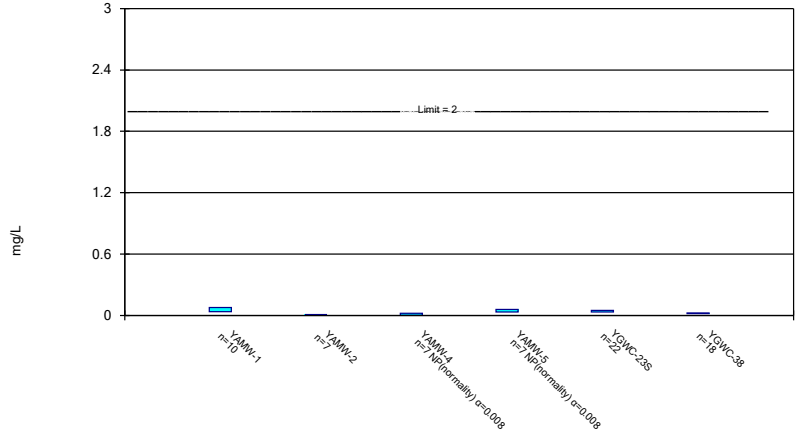


Constituent: Arsenic Analysis Run 5/16/2023 8:20 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

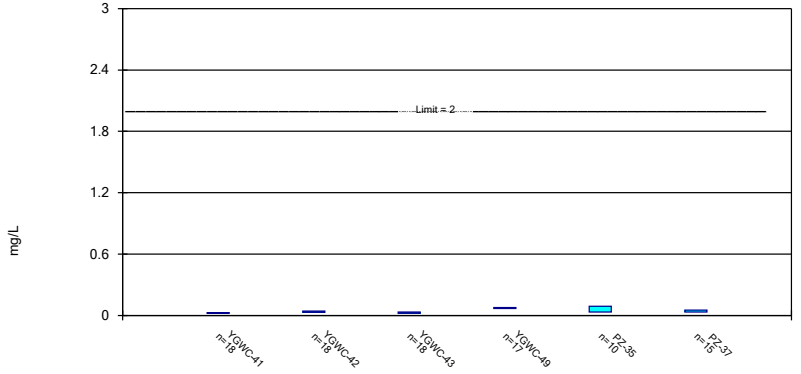


Constituent: Barium Analysis Run 5/16/2023 8:20 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

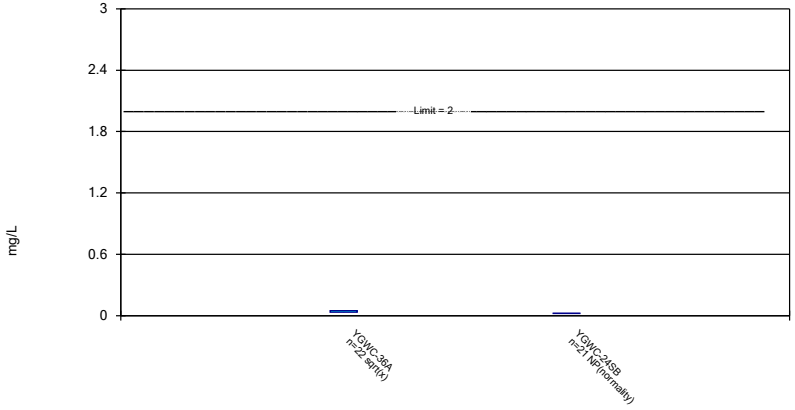


Constituent: Barium Analysis Run 5/16/2023 8:20 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

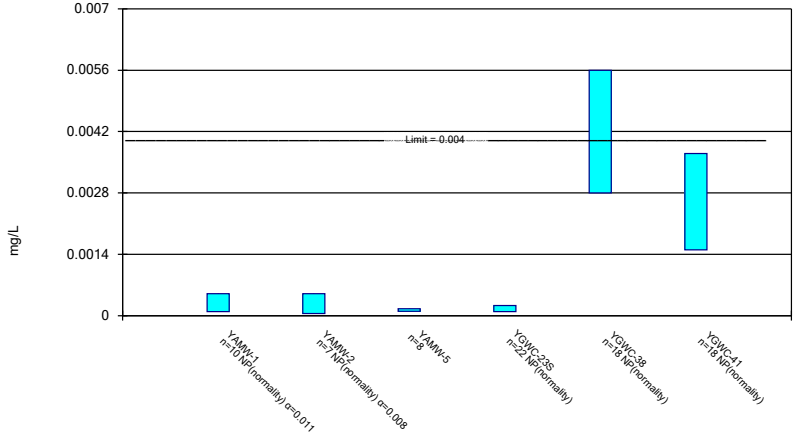
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 5/16/2023 8:20 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

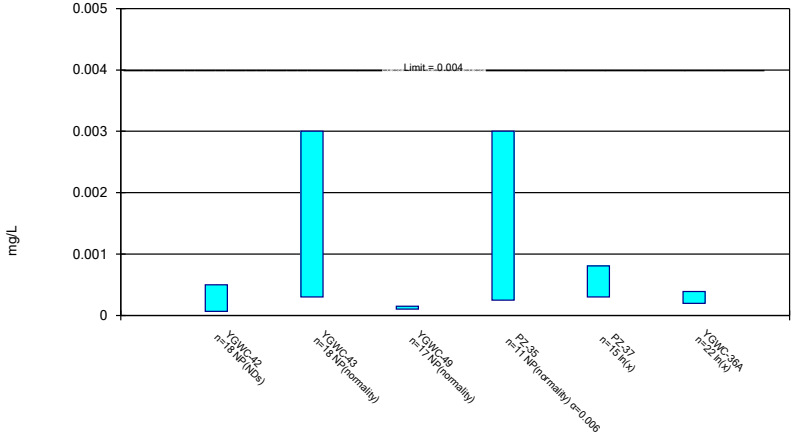
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 5/16/2023 8:21 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

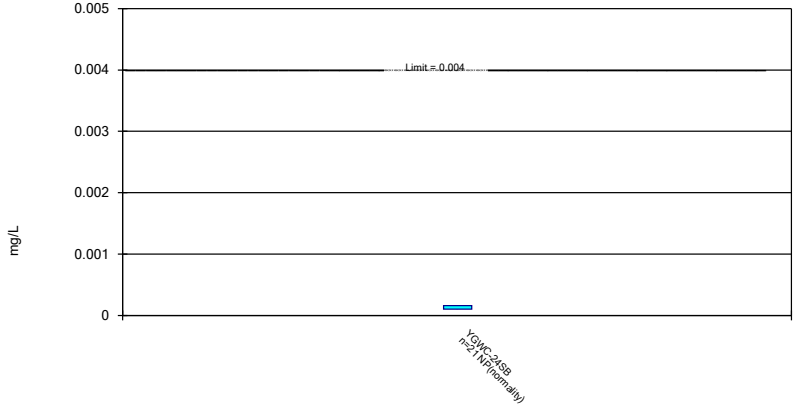
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 5/16/2023 8:21 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

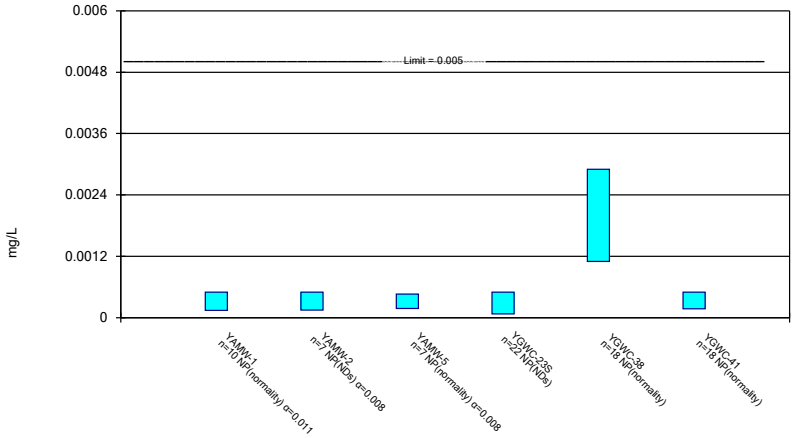
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium Analysis Run 5/16/2023 8:21 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

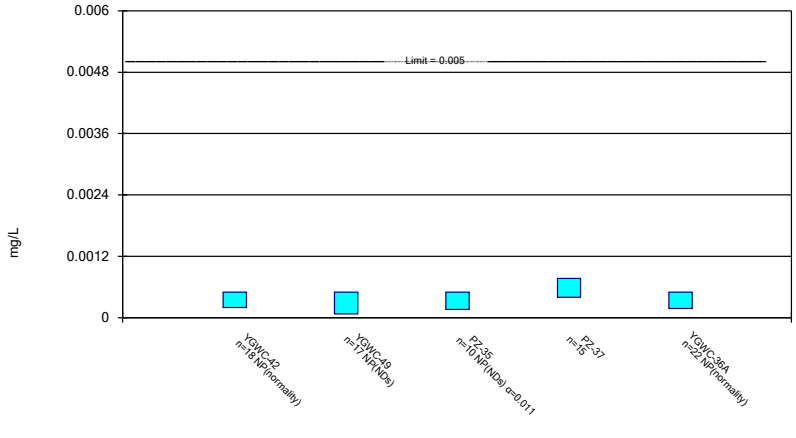


Constituent: Cadmium Analysis Run 5/16/2023 8:21 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 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.

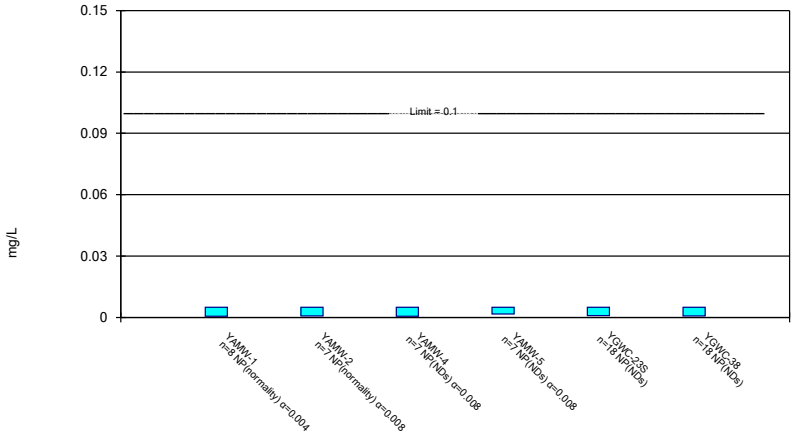


Constituent: Cadmium Analysis Run 5/16/2023 8:21 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

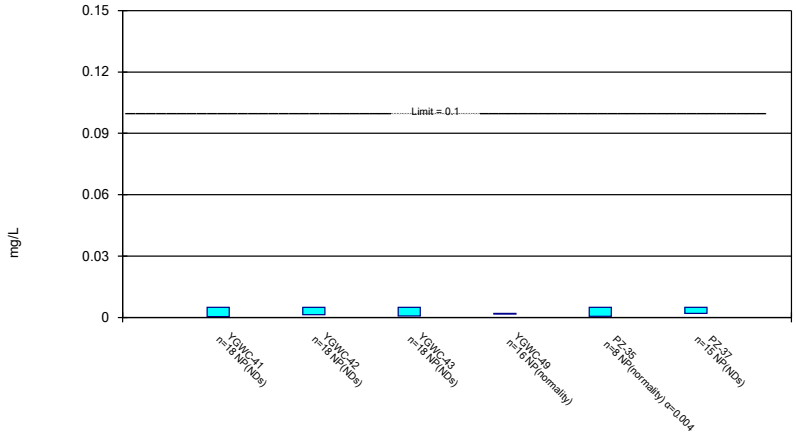


Constituent: Chromium Analysis Run 5/16/2023 8:21 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

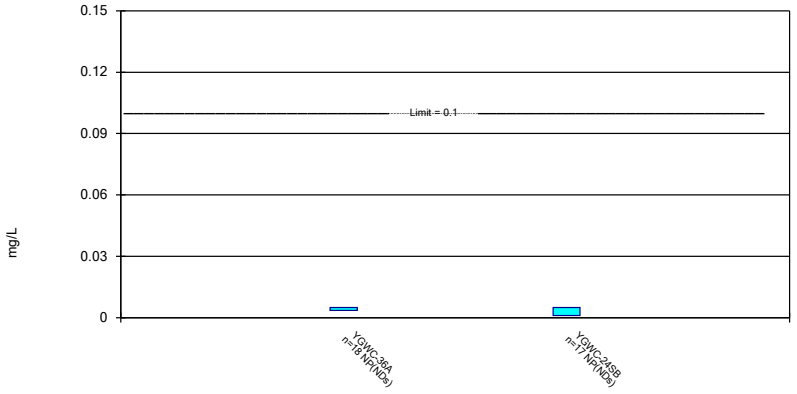
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Chromium Analysis Run 5/16/2023 8:21 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

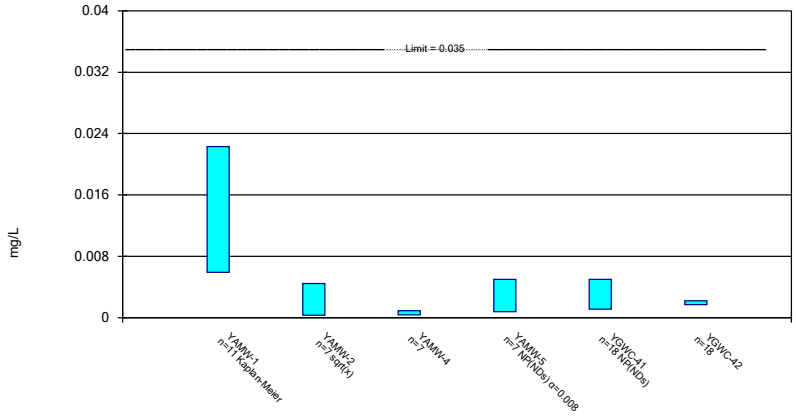
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 5/16/2023 8:21 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

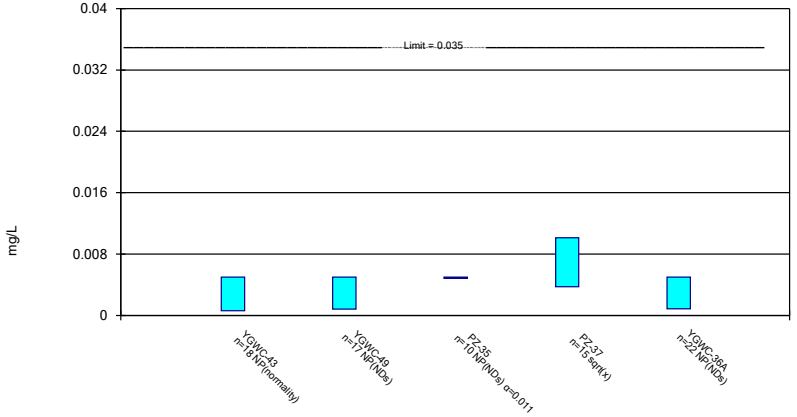
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/16/2023 8:21 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

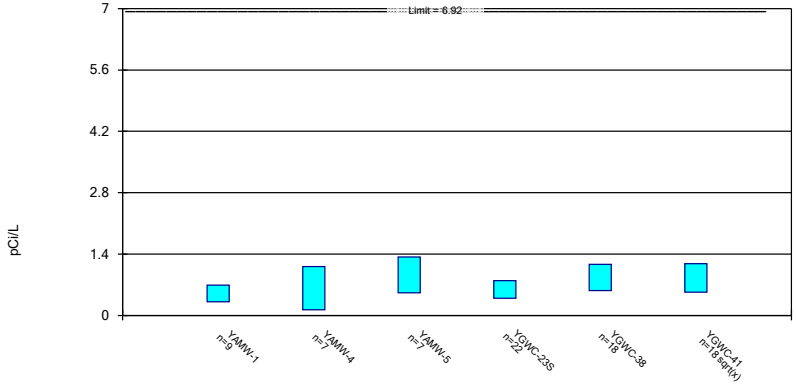
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/16/2023 8:21 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric Confidence Interval

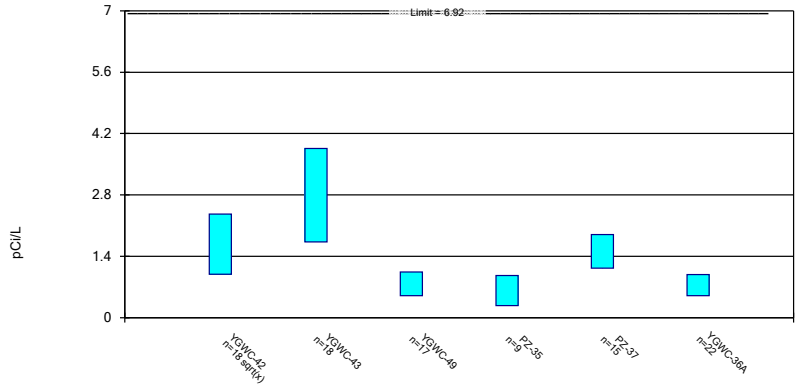
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/16/2023 8:21 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



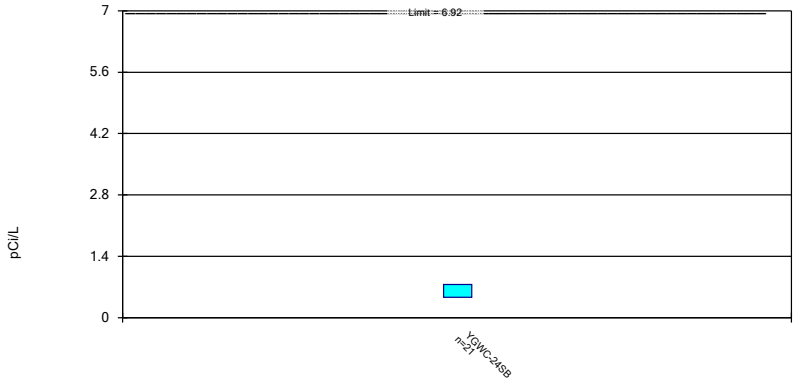
Constituent: Combined Radium 226 + 228 Analysis Run 5/16/2023 8:21 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



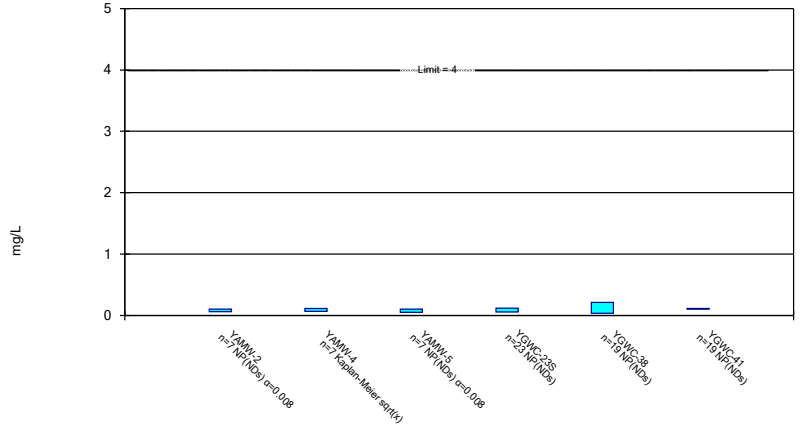
Constituent: Combined Radium 226 + 228 Analysis Run 5/16/2023 8:21 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



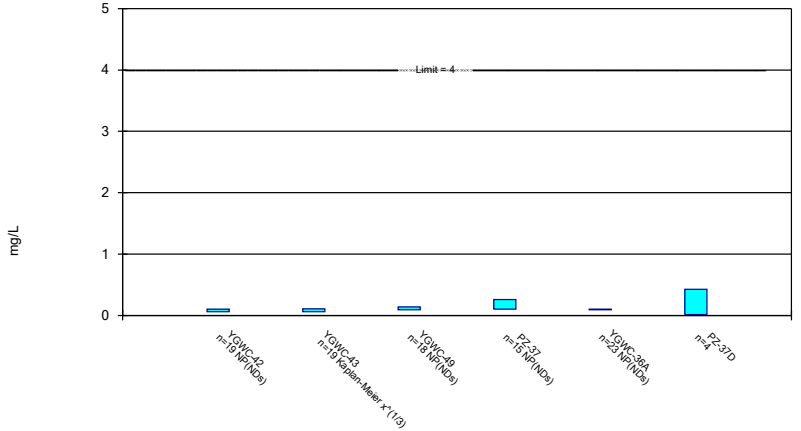
Constituent: Fluoride Analysis Run 5/16/2023 8:21 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

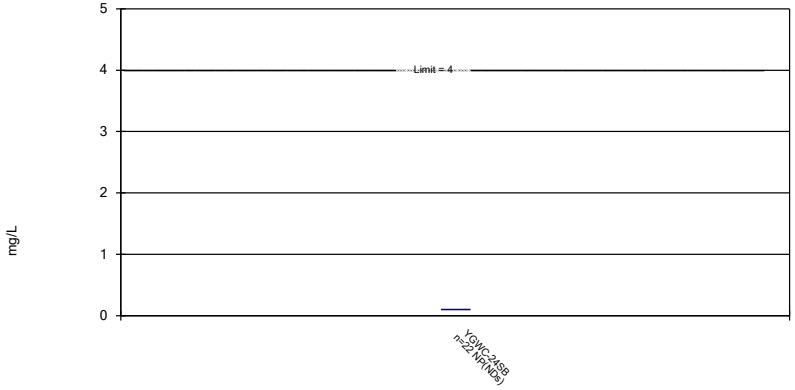


Constituent: Fluoride Analysis Run 5/16/2023 8:21 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

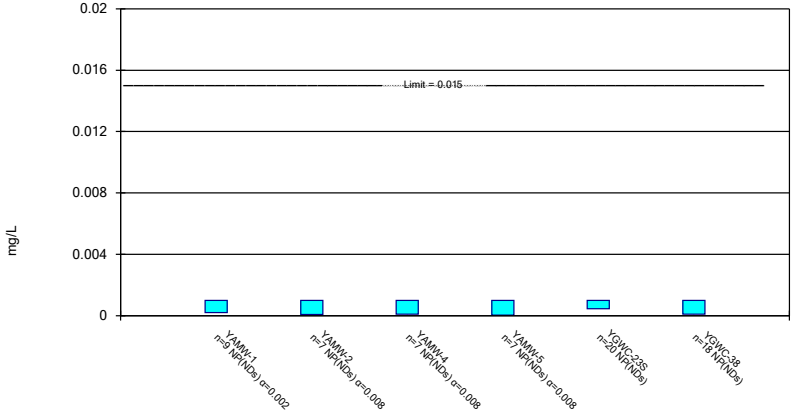
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Fluoride Analysis Run 5/16/2023 8:21 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

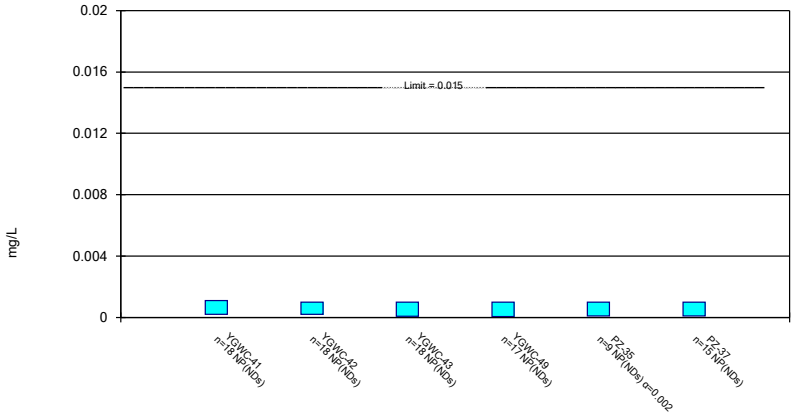
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Lead Analysis Run 5/16/2023 8:21 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

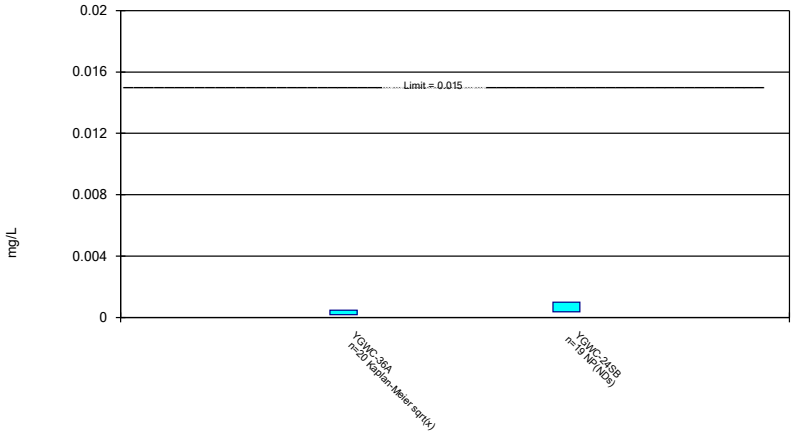
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Lead Analysis Run 5/16/2023 8:21 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

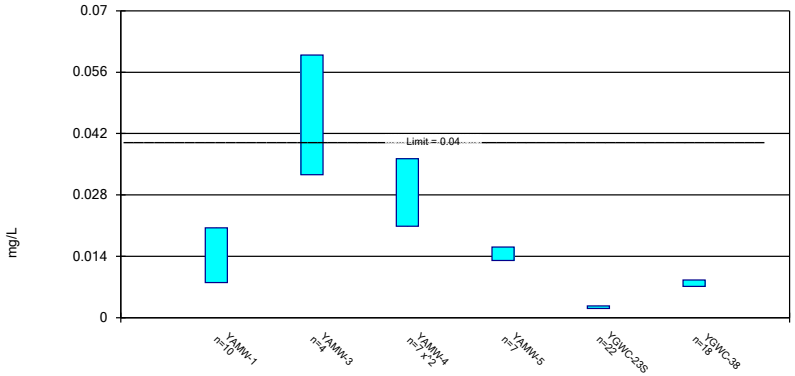
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 5/16/2023 8:21 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric Confidence Interval

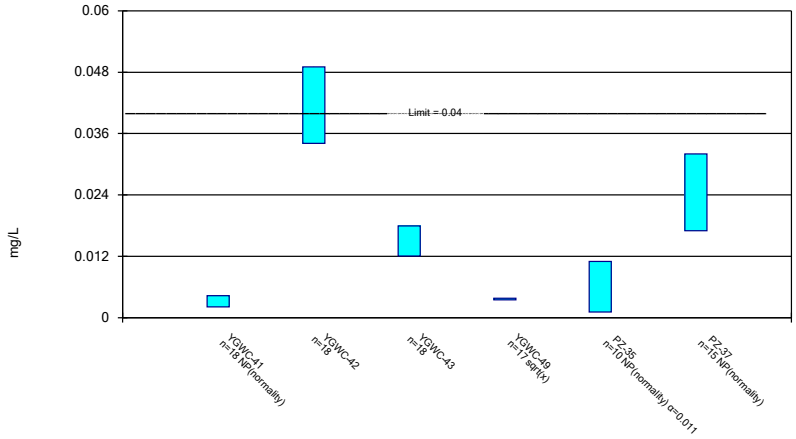
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/16/2023 8:21 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

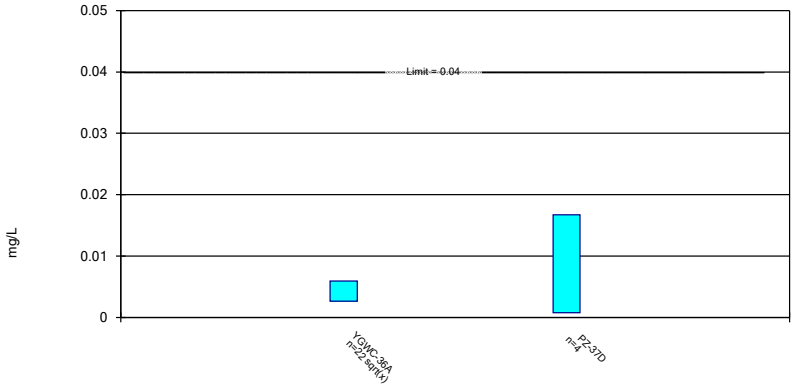
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/16/2023 8:21 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric Confidence Interval

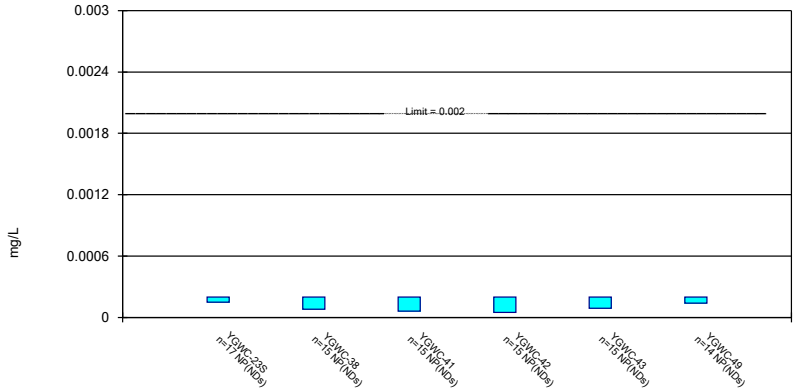
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/16/2023 8:21 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

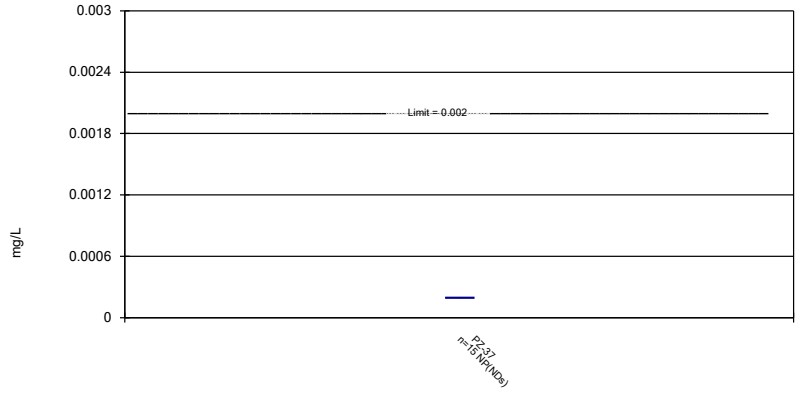
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 5/16/2023 8:21 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

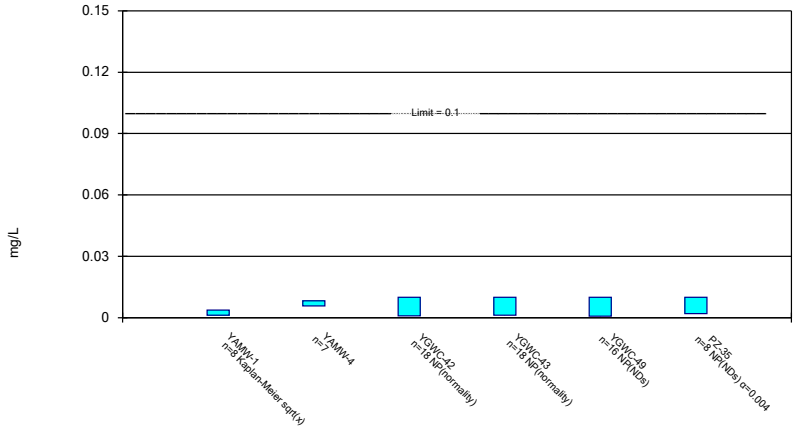
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 5/16/2023 8:21 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

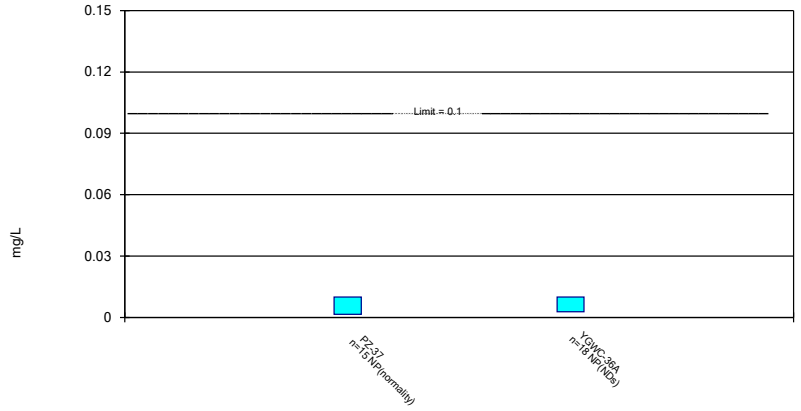
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 5/16/2023 8:21 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

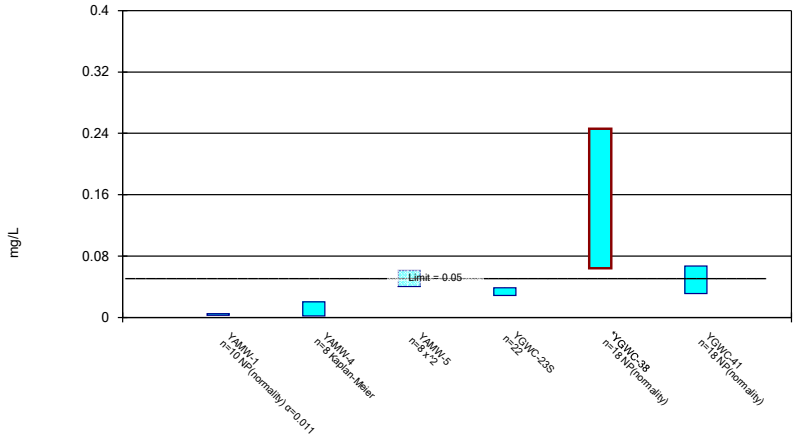
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Molybdenum Analysis Run 5/16/2023 8:21 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

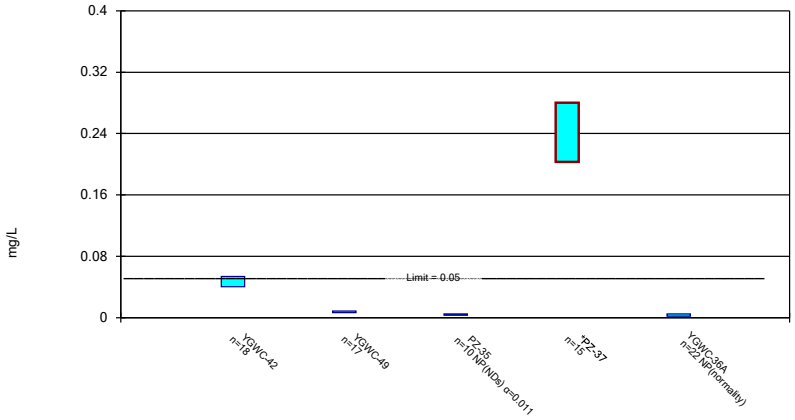
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 5/16/2023 8:21 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

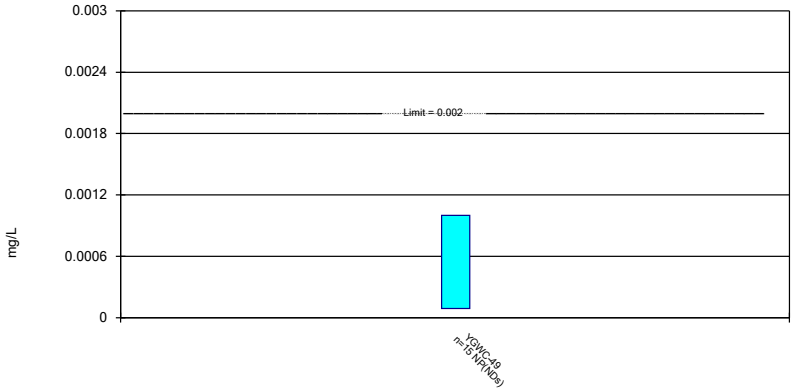


Constituent: Selenium Analysis Run 5/16/2023 8:22 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 5/16/2023 8:22 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-4	YAMW-5	YGWC-23S	YGWC-38	YGWC-41
6/7/2016				<0.003		
7/28/2016				<0.003		
9/20/2016				<0.003		
11/8/2016				<0.003		
1/16/2017				<0.003		
3/9/2017				<0.003		
5/2/2017				<0.003		
7/10/2017				<0.003		
10/12/2017					<0.003	<0.003
11/20/2017					<0.003	
11/21/2017						<0.003
1/11/2018						<0.003
1/12/2018					<0.003	
2/19/2018						<0.003
2/20/2018					<0.003	
3/30/2018				<0.003		
4/3/2018					<0.003	<0.003
6/27/2018						<0.003
6/28/2018					<0.003	
8/7/2018					0.0015 (J)	<0.003
9/24/2018					<0.003	<0.003
3/6/2019				<0.003		
4/4/2019				<0.003		
8/22/2019					<0.003	<0.003
9/26/2019	<0.003					
9/27/2019				0.00029 (J)		
3/25/2020	<0.003				0.00063 (J)	<0.003
3/26/2020				<0.003		
9/23/2020		0.00065 (J)				
9/24/2020	<0.003		0.00033 (J)	0.00085 (J)		
9/25/2020					0.00061 (J)	<0.003
2/9/2021	0.00037 (J)	0.0011 (J)	<0.003	0.00052 (J)	0.00031 (J)	
2/10/2021						0.0014 (J)
3/3/2021	0.025	0.00062 (J)				
3/4/2021			<0.003	<0.003	<0.003	<0.003
8/25/2021		<0.003		<0.003		
8/26/2021			<0.003		<0.003	<0.003
9/1/2021	0.0024 (J)					
2/8/2022						<0.003
2/10/2022	<0.003	<0.003	<0.003	<0.003	<0.003	
8/31/2022	0.0016 (J)					
9/1/2022		<0.003	<0.003	<0.003	<0.003	<0.003
2/8/2023		<0.003	<0.003	<0.003	<0.003	<0.003
2/9/2023	<0.003					
Mean	0.00493	0.002053	0.002619	0.002633	0.002474	0.002906
Std. Dev.	0.007581	0.001191	0.001009	0.000901	0.001003	0.0003881
Upper Lim.	0.025	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.00037	0.00062	0.00033	0.00085	0.0015	0.0014

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37	YGWC-36A
8/30/2016	<0.003					
8/31/2016		<0.003				
9/1/2016			<0.003			
9/2/2016						<0.003
11/14/2016						0.0014 (J)
11/15/2016			<0.003			
11/16/2016	<0.003	<0.003				
2/24/2017		<0.003				
2/27/2017	<0.003		0.0011 (J)			
2/28/2017						0.0004 (J)
5/9/2017			<0.003			<0.003
5/10/2017	<0.003	<0.003				
7/11/2017	<0.003	<0.003				
7/13/2017			<0.003			<0.003
9/22/2017						<0.003
9/29/2017						<0.003
10/6/2017						<0.003
10/11/2017			<0.003			
10/12/2017	<0.003	<0.003			<0.003	
11/21/2017					<0.003	
1/11/2018					<0.003	
2/20/2018					<0.003	
3/30/2018						<0.003
4/3/2018					<0.003	
4/4/2018	<0.003	<0.003	<0.003			
6/29/2018					<0.003	
8/6/2018					<0.003	
9/20/2018	<0.003	<0.003	<0.003			
9/24/2018					<0.003	
3/6/2019						0.0011 (J)
4/4/2019						0.0041
8/21/2019		<0.003				
8/22/2019	<0.003					
9/26/2019			<0.003	<0.003		0.0065
3/25/2020	<0.003	0.00031 (J)	0.00053 (J)	<0.003		0.0011 (J)
9/24/2020	<0.003		<0.003	<0.003		
9/25/2020		<0.003			0.0014 (J)	
10/7/2020						<0.003
2/9/2021		<0.003	<0.003		0.00035 (J)	
2/10/2021	0.00053 (J)			<0.003		0.028
3/4/2021	<0.003	<0.003	<0.003	0.00039 (J)	<0.003	0.0015 (J)
8/25/2021	<0.003				<0.003	
9/1/2021			<0.003	<0.003		
9/3/2021						0.0016 (J)
9/27/2021		<0.003				
2/8/2022		<0.003	<0.003			
2/10/2022	<0.003			<0.003	<0.003	
2/11/2022						0.0023 (J)
8/31/2022			<0.003	<0.003		
9/1/2022	<0.003	<0.003			0.00091 (J)	<0.003
2/8/2023	<0.003	<0.003			<0.003	
2/9/2023			<0.003	<0.003		<0.003

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37	YGWC-36A
Mean	0.002855	0.002842	0.002743	0.00271	0.002577	0.0039
Std. Dev.	0.0005991	0.0006524	0.0007326	0.00087	0.0008973	0.00582
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.0041
Lower Lim.	0.00053	0.00031	0.0011	0.00039	0.0014	0.0015

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-37D	YGWC-24SB
6/8/2016		<0.003
8/1/2016		<0.003
9/20/2016		0.0009 (J)
11/8/2016		<0.003
1/17/2017		<0.003
3/8/2017		<0.003
5/2/2017		<0.003
7/7/2017		<0.003
3/30/2018		<0.003
3/5/2019		<0.003
4/4/2019		<0.003
9/26/2019		<0.003
3/26/2020		<0.003
9/23/2020		<0.003
2/9/2021		<0.003
3/3/2021		<0.003
9/1/2021		<0.003
9/3/2021	<0.003	
2/10/2022		<0.003
2/11/2022	<0.003	
9/1/2022	<0.003	
2/8/2023	0.0015 (J)	
2/10/2023		<0.003
Mean	0.002625	0.002889
Std. Dev.	0.00075	0.0004818
Upper Lim.	0.003	0.003
Lower Lim.	0.0015	0.0009

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-4	YAMW-5	YGWC-23S	YGWC-38	YGWC-41
6/7/2016				<0.005		
7/28/2016				<0.005		
9/20/2016				<0.005		
11/8/2016				<0.005		
1/16/2017				<0.005		
3/9/2017				<0.005		
5/2/2017				<0.005		
7/10/2017				<0.005		
10/12/2017					0.0023 (J)	0.0011 (J)
11/20/2017					0.0008 (J)	
11/21/2017						<0.005
1/11/2018						<0.005
1/12/2018					0.001 (J)	
2/19/2018						<0.005
2/20/2018					0.00096 (J)	
3/30/2018				<0.005		
4/3/2018					0.0015 (J)	0.00072 (J)
6/12/2018				<0.005		
6/27/2018						0.00062 (J)
6/28/2018					0.0017 (J)	
8/7/2018					0.00072 (J)	<0.005
9/24/2018					0.0017 (J)	0.001 (J)
9/27/2018				<0.005		
10/16/2018	<0.005					
3/6/2019				<0.005		
4/4/2019				<0.005		
8/22/2019					0.00055 (J)	0.00036 (J)
9/26/2019	<0.005					
9/27/2019				<0.005		
10/9/2019					0.00057 (J)	0.00052 (J)
3/25/2020	<0.005				0.00068 (J)	0.001 (J)
3/26/2020				0.0012 (J)		
9/23/2020		<0.005				
9/24/2020	<0.005		0.0015 (J)	<0.005		
9/25/2020					<0.005	<0.005
2/9/2021	<0.005	0.001 (J)	0.00095 (J)	<0.005	0.00098 (J)	
2/10/2021						<0.005
3/3/2021	<0.005	0.00079 (J)				
3/4/2021			<0.005	<0.005	<0.005	<0.005
8/25/2021		<0.005		<0.005		
8/26/2021			<0.005		0.0013 (J)	<0.005
9/1/2021	<0.005					
2/8/2022						0.0021 (J)
2/10/2022	0.0023 (J)	0.0026 (J)	0.0024 (J)	0.0025 (J)	0.0017 (J)	
8/31/2022	<0.005					
9/1/2022		<0.005	<0.005	<0.005	<0.005	<0.005
2/8/2023		0.0037 (J)	0.0038 (J)	<0.005	<0.005	0.0027 (J)
2/9/2023	0.0034 (J)					
Mean	0.00457	0.003299	0.003379	0.004714	0.002026	0.003062
Std. Dev.	0.0009429	0.001867	0.001754	0.0009483	0.001701	0.002064
Upper Lim.	0.005	0.005	0.003443	0.005	0.0023	0.005
Lower Lim.	0.0034	0.00079	0.0008822	0.0025	0.00072	0.00072

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37	YGWC-36A
8/30/2016	0.0023 (J)					
8/31/2016		<0.005				
9/1/2016			<0.005			
9/2/2016						<0.005
11/14/2016						<0.005
11/15/2016			<0.005			
11/16/2016	0.0017 (J)	<0.005				
2/24/2017		<0.005				
2/27/2017	0.002 (J)		<0.005			
2/28/2017						0.0006 (J)
5/9/2017			<0.005			0.0006 (J)
5/10/2017	0.0022 (J)	<0.005				
7/11/2017	0.003 (J)	<0.005				
7/13/2017			<0.005			<0.005
9/22/2017						<0.005
9/29/2017						<0.005
10/6/2017						<0.005
10/11/2017			0.0006 (J)			
10/12/2017	0.0031 (J)	<0.005			0.0014 (J)	
11/21/2017					0.0008 (J)	
1/11/2018					0.0006 (J)	
2/20/2018					<0.005	
3/30/2018						<0.005
4/3/2018					0.0012 (J)	
4/4/2018	0.0023 (J)	<0.005	<0.005			
6/13/2018						0.00066 (J)
6/29/2018					0.0011 (J)	
8/6/2018					<0.005	
9/20/2018	0.0018 (J)	0.00099 (J)	0.001 (J)			
9/24/2018					0.00094 (J)	
9/26/2018						<0.005
10/16/2018				0.00069 (J)		
3/6/2019						<0.005
4/4/2019						<0.005
8/21/2019		<0.005				
8/22/2019	0.00089 (J)					
9/26/2019			<0.005	<0.005		<0.005
10/9/2019	0.00078 (J)	0.00051 (J)				
3/25/2020	0.0013 (J)	0.0007 (J)	0.00086 (J)	<0.005		<0.005
9/24/2020	<0.005		<0.005	<0.005		
9/25/2020		<0.005			<0.005	
10/7/2020						<0.005
2/9/2021		<0.005	<0.005		0.0015 (J)	
2/10/2021	0.0016 (J)			0.00096 (J)		0.00088 (J)
3/4/2021	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/25/2021	0.0014 (J)				0.0014 (J)	
9/1/2021			<0.005	<0.005		
9/3/2021						<0.005
9/27/2021		<0.005				
2/8/2022		0.0022 (J)	<0.005			
2/10/2022	0.0026 (J)			0.0018 (J)	0.0017 (J)	
2/11/2022						0.0014 (J)

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37	YGWC-36A
8/31/2022			<0.005	<0.005		
9/1/2022	<0.005	<0.005			<0.005	<0.005
2/8/2023	0.0025 (J)	0.0033 (J)			<0.005	
2/9/2023			<0.005	0.0028 (J)		0.0047 (J)
Mean	0.002471	0.004039	0.004262	0.003625	0.002709	0.004038
Std. Dev.	0.001327	0.001695	0.001644	0.001858	0.001955	0.001789
Upper Lim.	0.002295	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.001445	0.0022	0.001	0.00096	0.00094	0.0047

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-24SB
6/8/2016	<0.005
8/1/2016	<0.005
9/20/2016	<0.005
11/8/2016	<0.005
1/17/2017	<0.005
3/8/2017	<0.005
5/2/2017	<0.005
7/7/2017	<0.005
3/30/2018	<0.005
6/12/2018	<0.005
9/26/2018	<0.005
3/5/2019	<0.005
4/4/2019	<0.005
9/26/2019	<0.005
3/26/2020	0.0015 (J)
9/23/2020	<0.005
2/9/2021	<0.005
3/3/2021	<0.005
9/1/2021	<0.005
2/10/2022	0.0024 (J)
2/10/2023	0.0035 (J)
Mean	0.004638
Std. Dev.	0.000962
Upper Lim.	0.005
Lower Lim.	0.0035

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWC-23S	YGWC-38
6/7/2016					0.045	
7/28/2016					0.0511	
9/20/2016					0.0561	
11/8/2016					0.054	
1/16/2017					0.0528	
3/9/2017					0.0469	
5/2/2017					0.0427	
7/10/2017					0.0395	
10/12/2017						0.0269
11/20/2017						0.0255
1/12/2018						0.0236
2/20/2018						0.0255
3/30/2018					0.03	
4/3/2018						0.023
6/12/2018					0.024	
6/28/2018						0.024
8/7/2018						0.023
9/24/2018						0.021
9/27/2018					0.022	
10/16/2018	0.048					
3/6/2019					0.019	
4/4/2019					0.019	
8/22/2019						0.019
9/26/2019	0.047					
9/27/2019					0.018	
10/9/2019						0.019
3/25/2020	0.04					0.018
3/26/2020					0.027	
9/23/2020		0.0092 (J)	0.0063 (J)			
9/24/2020	0.028			0.057	0.035	
9/25/2020						0.015
2/9/2021	0.039	0.0085 (J)	0.02	0.042	0.042	0.016
3/3/2021	0.035	0.0082	0.021			
3/4/2021				0.039	0.043	0.016
8/25/2021			0.0037 (J)		0.049	
8/26/2021				0.036		0.016
9/1/2021	0.075	0.0072				
2/10/2022	0.084	0.0074	0.0033 (J)	0.034	0.058	0.016
8/31/2022	0.085					
9/1/2022		0.0092	0.003 (J)	0.034	0.053	0.014
2/8/2023		0.0064	0.003 (J)	0.039	0.053	0.016
2/9/2023	0.078					
Mean	0.0559	0.008014	0.008614	0.04014	0.04	0.01986
Std. Dev.	0.02207	0.001059	0.008204	0.007988	0.01348	0.00422
Upper Lim.	0.07559	0.009272	0.021	0.057	0.04724	0.02241
Lower Lim.	0.03621	0.006756	0.003	0.034	0.03277	0.01731

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-41	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37
8/30/2016		0.0455				
8/31/2016			0.0065 (J)			
9/1/2016				0.077		
11/15/2016				0.0772		
11/16/2016		0.0541	0.0092 (J)			
2/24/2017			0.0144			
2/27/2017		0.0573		0.0888		
5/9/2017				0.0792		
5/10/2017		0.0517	0.0173			
7/11/2017		0.0451	0.0183			
7/13/2017				0.0839		
10/11/2017				0.078		
10/12/2017	0.0394	0.0429	0.0205			0.064
11/21/2017	0.032					0.0579
1/11/2018	0.03					0.0549
2/19/2018	0.0308					
2/20/2018						0.0593
4/3/2018	0.03					0.051
4/4/2018		0.041	0.024	0.074		
6/27/2018	0.028					
6/29/2018						0.054
8/6/2018						0.048
8/7/2018	0.027					
9/20/2018		0.038	0.035	0.074		
9/24/2018	0.026					0.047
10/16/2018					0.063	
8/21/2019			0.03			
8/22/2019	0.021	0.031				
9/26/2019				0.065	0.039	
10/9/2019	0.021	0.027	0.04			
3/25/2020	0.021	0.03	0.033	0.071	0.039	
9/24/2020		0.026		0.066	0.034	
9/25/2020	0.016		0.046			0.034
2/9/2021			0.041	0.071		0.036
2/10/2021	0.017	0.031			0.032	
3/4/2021	0.017	0.03	0.039	0.069	0.033	0.036
8/25/2021		0.027				0.035
8/26/2021	0.018					
9/1/2021				0.066	0.067	
9/27/2021			0.0097			
2/8/2022	0.021		0.029	0.07		
2/10/2022		0.026			0.074	0.029
8/31/2022				0.058	0.1	
9/1/2022	0.019	0.023	0.029			0.023
2/8/2023	0.022	0.023	0.031			0.022
2/9/2023				0.063	0.13	
Mean	0.02423	0.03609	0.02627	0.07242	0.0611	0.04341
Std. Dev.	0.006464	0.01111	0.01191	0.007833	0.03302	0.01356
Upper Lim.	0.02814	0.04281	0.03348	0.07733	0.09056	0.05259
Lower Lim.	0.02032	0.02937	0.01907	0.06751	0.03164	0.03422

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-36A	YGWC-24SB
6/8/2016		0.02
8/1/2016		0.02
9/2/2016	0.0409	
9/20/2016		0.0203
11/8/2016		0.0191
11/14/2016	0.0182	
1/17/2017		0.0192
2/28/2017	0.023	
3/8/2017		0.0189
5/2/2017		0.019
5/9/2017	0.0349	
7/7/2017		0.019
7/13/2017	0.0484	
9/22/2017	0.0491	
9/29/2017	0.0452	
10/6/2017	0.0508	
3/30/2018	0.043	0.02
6/12/2018		0.018
6/13/2018	0.046	
9/26/2018	0.048	0.019
3/5/2019		0.019
3/6/2019	0.041	
4/4/2019	0.042	0.02
9/26/2019	0.025	0.017
3/25/2020	0.025	
3/26/2020		0.019
9/23/2020		0.026
10/7/2020	0.04	
2/9/2021		0.031
2/10/2021	0.035	
3/3/2021		0.025
3/4/2021	0.028	
9/1/2021		0.025
9/3/2021	0.038	
2/10/2022		0.026
2/11/2022	0.044	
9/1/2022	0.059	
2/9/2023	0.097	
2/10/2023		0.031
Mean	0.04189	0.0215
Std. Dev.	0.016	0.004108
Upper Lim.	0.04891	0.025
Lower Lim.	0.03307	0.019

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-5	YGWC-23S	YGWC-38	YGWC-41
6/7/2016				<0.003		
7/28/2016				<0.003		
9/20/2016				0.0001 (J)		
11/8/2016				<0.003		
1/16/2017				0.0001 (J)		
3/9/2017				0.0001 (J)		
5/2/2017				9E-05 (J)		
7/10/2017				<0.003		
10/12/2017					0.0057	0.0036
11/20/2017					0.0053	
11/21/2017						0.0036
1/11/2018						0.0037
1/12/2018					0.0053	
2/19/2018						0.0039
2/20/2018					0.0053	
3/30/2018				<0.003		
4/3/2018					0.0056	0.0037
6/12/2018				8.1E-05 (J)		
6/27/2018						0.0038
6/28/2018					0.0059	
8/7/2018					0.0058	0.0037
9/24/2018					0.0051	0.0032
9/27/2018				9E-05 (J)		
10/16/2018	<0.0005					
3/6/2019				6.6E-05 (J)		
4/4/2019				7.2E-05 (J)		
8/22/2019					0.0049	0.0026 (J)
9/26/2019	<0.0005					
9/27/2019				7.7E-05 (J)		
10/9/2019					0.0046	0.0026 (J)
1/15/2020			0.00017 (J)			
3/25/2020	0.00037 (J)				0.0038	0.0026 (J)
3/26/2020				9E-05 (J)		
9/23/2020		<0.0005				
9/24/2020	5.8E-05 (J)		8.6E-05 (J)	0.00015 (J)		
9/25/2020					0.0033	0.002 (J)
2/9/2021	<0.0005	5.1E-05 (J)	0.00015 (J)	0.00015 (J)	0.0029 (J)	
2/10/2021						0.0015 (J)
3/3/2021	<0.0005	<0.0005				
3/4/2021			0.00013 (J)	0.00013 (J)	0.0029	0.0015
8/25/2021				0.00019 (J)		
8/26/2021			0.00012 (J)		0.0028	0.0012
9/1/2021	9.5E-05 (J)	6.5E-05 (J)				
2/8/2022						0.0016
2/10/2022	0.00016 (J)	7.4E-05 (J)	0.00013 (J)	0.00023 (J)	0.0027	
8/31/2022	0.00011 (J)					
9/1/2022		5.7E-05 (J)	0.00011 (J)	0.00019 (J)	0.0022	0.0013
2/8/2023		5.5E-05 (J)	0.00013 (J)	0.00022 (J)	0.002	0.0013
2/9/2023	0.00012 (J)					
Mean	0.0002913	0.000186	0.0001283	0.0007785	0.004228	0.002633
Std. Dev.	0.000198	0.0002146	2.51E-05	0.001234	0.001375	0.001035
Upper Lim.	0.0005	0.0005	0.0001549	0.00023	0.0056	0.0037

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-5	YGWC-23S	YGWC-38	YGWC-41
Lower Lim.	9.5E-05	5.1E-05	0.0001016	9E-05	0.0028	0.0015

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37	YGWC-36A
8/30/2016	9E-05 (J)					
8/31/2016		<0.003				
9/1/2016			0.0001 (J)			
9/2/2016						0.0003 (J)
11/14/2016						9E-05 (J)
11/15/2016			0.0001 (J)			
11/16/2016	<0.0005	<0.003				
2/24/2017		<0.003				
2/27/2017	<0.0005		0.0001 (J)			
2/28/2017						0.0001 (J)
5/9/2017			0.0001 (J)			0.0002 (J)
5/10/2017	9E-05 (J)	<0.003				
7/11/2017	0.0001 (J)	<0.003				
7/13/2017			0.0001 (J)			0.0003 (J)
9/22/2017						0.0003 (J)
9/29/2017						0.0003 (J)
10/6/2017						0.0003 (J)
10/11/2017			0.0001 (J)			
10/12/2017	<0.0005	0.0001 (J)			0.0004 (J)	
11/21/2017					0.0004 (J)	
1/11/2018					0.0003 (J)	
2/20/2018					<0.003	
3/30/2018						<0.003
4/3/2018					<0.003	
4/4/2018	<0.0005	<0.003	<0.003			
6/13/2018						0.00035 (J)
6/29/2018					0.00033 (J)	
8/6/2018					0.0002 (J)	
8/30/2018				0.00052 (J)		
9/20/2018	<0.0005	0.00029 (J)	0.00011 (J)			
9/24/2018					0.00029 (J)	
9/26/2018						0.00032 (J)
10/16/2018				0.00036 (J)		
3/6/2019						0.00029 (J)
4/4/2019						0.00033 (J)
8/21/2019		0.0003 (J)				
8/22/2019	<0.0005					
9/26/2019			0.00013 (J)	<0.003		0.00029 (J)
10/9/2019	<0.0005	0.00034 (J)				
3/25/2020	<0.0005	0.00034 (J)	0.00013 (J)	<0.003		0.00022 (J)
9/24/2020	6.7E-05 (J)		0.00013 (J)	0.00033 (J)		
9/25/2020		0.00054 (J)			0.00031 (J)	
10/7/2020						0.00014 (J)
2/9/2021		0.00053 (J)	0.00013 (J)		0.00029 (J)	
2/10/2021	5.7E-05 (J)			0.00025 (J)		9.9E-05 (J)
3/4/2021	<0.0005	0.00056	0.0001 (J)	0.00025 (J)	0.00017 (J)	0.00016 (J)
8/25/2021	<0.0005				0.00059	
9/1/2021			0.00012 (J)	0.00045 (J)		
9/3/2021						0.00035 (J)
9/27/2021		0.00015 (J)				
2/8/2022		0.00037 (J)	0.00015 (J)			
2/10/2022	6.1E-05 (J)			0.00055	0.001	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37	YGWC-36A
2/11/2022						0.00043 (J)
8/31/2022			0.00017 (J)	0.00061		
9/1/2022	<0.0005	0.00033 (J)			0.0011	0.00053
2/8/2023	6.2E-05 (J)	0.00036 (J)			0.0011	
2/9/2023			0.00012 (J)	0.0008		0.00066
Mean	0.0003348	0.001234	0.0001994	0.00092	0.000632	0.0003436
Std. Dev.	0.0002133	0.00129	0.0003358	0.001041	0.0004727	0.000292
Upper Lim.	0.0005	0.003	0.00015	0.003	0.0008051	0.0003907
Lower Lim.	6.7E-05	0.0003	0.0001	0.00025	0.0002982	0.0001957

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-24SB
6/8/2016	<0.003
8/1/2016	0.0001 (J)
9/20/2016	0.0001 (J)
11/8/2016	<0.003
1/17/2017	0.0001 (J)
3/8/2017	0.0001 (J)
5/2/2017	0.0001 (J)
7/7/2017	0.0001 (J)
3/30/2018	<0.003
6/12/2018	0.00012 (J)
9/26/2018	0.00014 (J)
3/5/2019	0.00016 (J)
4/4/2019	0.00015 (J)
9/26/2019	0.00014 (J)
3/26/2020	0.00016 (J)
9/23/2020	6.1E-05 (J)
2/9/2021	0.00013 (J)
3/3/2021	9.9E-05 (J)
9/1/2021	0.00014 (J)
2/10/2022	0.00016 (J)
2/10/2023	5.4E-05 (J)
Mean	0.000315
Std. Dev.	0.0004966
Upper Lim.	0.00016
Lower Lim.	0.0001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-5	YGWC-23S	YGWC-38	YGWC-41
6/7/2016				<0.0005		
7/28/2016				<0.0005		
9/20/2016				<0.0005		
11/8/2016				7E-05 (J)		
1/16/2017				<0.0005		
3/9/2017				<0.0005		
5/2/2017				<0.0005		
7/10/2017				<0.0005		
10/12/2017					0.003	0.0002 (J)
11/20/2017					0.0027	
11/21/2017						0.0003 (J)
1/11/2018						0.0002 (J)
1/12/2018					0.0029	
2/19/2018						<0.0005
2/20/2018					0.0029	
3/30/2018				<0.0005		
4/3/2018					0.0027	<0.0005
6/12/2018				<0.0005		
6/27/2018						0.00025 (J)
6/28/2018					0.0029	
8/7/2018					0.0027	0.00024 (J)
9/24/2018					0.0027	0.00021 (J)
9/27/2018				<0.0005		
10/16/2018	0.00014 (J)					
3/6/2019				<0.0005		
4/4/2019				<0.0005		
8/22/2019					0.0023 (J)	0.00015 (J)
9/26/2019	<0.0005					
9/27/2019				<0.0005		
10/9/2019					0.0021 (J)	0.00017 (J)
3/25/2020	<0.0005				0.0018 (J)	0.00018 (J)
3/26/2020				<0.0005		
9/23/2020		<0.0005				
9/24/2020	0.00017 (J)		0.00018 (J)	<0.0005		
9/25/2020					0.0015 (J)	0.00014 (J)
2/9/2021	0.00013 (J)	<0.0005	0.00025 (J)	<0.0005	0.0014 (J)	
2/10/2021						<0.0005
3/3/2021	<0.0005	<0.0005				
3/4/2021			0.00018 (J)	<0.0005	0.0013	<0.0005
8/25/2021				<0.0005		
8/26/2021			0.00021 (J)		0.0011	<0.0005
9/1/2021	0.00023 (J)	<0.0005				
2/8/2022						0.00012 (J)
2/10/2022	0.00018 (J)	<0.0005	0.00022 (J)	<0.0005	0.0011	
8/31/2022	0.00015 (J)					
9/1/2022		0.00015 (J)	0.00023 (J)	<0.0005	0.00094	<0.0005
2/8/2023		<0.0005	0.00046 (J)	<0.0005	0.00068	<0.0005
2/9/2023	<0.0005					
Mean	0.0003	0.00045	0.0002471	0.0004805	0.00204	0.0003144
Std. Dev.	0.0001742	0.0001323	9.725E-05	9.168E-05	0.0008076	0.0001576
Upper Lim.	0.0005	0.0005	0.00046	0.0005	0.0029	0.0005
Lower Lim.	0.00014	0.00015	0.00018	7E-05	0.0011	0.00017

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-49	PZ-35	PZ-37	YGWC-36A
8/30/2016	<0.0005				
9/1/2016		<0.0005			
9/2/2016					<0.0005
11/14/2016					9E-05 (J)
11/15/2016		<0.0005			
11/16/2016	<0.0005				
2/27/2017	<0.0005	7E-05 (J)			
2/28/2017					0.0001 (J)
5/9/2017		<0.0005			0.0002 (J)
5/10/2017	0.0002 (J)				
7/11/2017	0.0005 (J)				
7/13/2017		<0.0005			0.0002 (J)
9/22/2017					0.0002 (J)
9/29/2017					0.0002 (J)
10/6/2017					0.0002 (J)
10/11/2017		<0.0005			
10/12/2017	0.0006 (J)			0.0002 (J)	
11/21/2017				0.0002 (J)	
1/11/2018				0.0004 (J)	
2/20/2018				<0.001	
3/30/2018					<0.0005
4/3/2018				<0.001	
4/4/2018	<0.0005	<0.0005			
6/13/2018					0.00019 (J)
6/29/2018				0.00099 (J)	
8/6/2018				0.00063 (J)	
9/20/2018	0.0002 (J)	<0.0005			
9/24/2018				0.00069 (J)	
9/26/2018					0.00018 (J)
10/16/2018			<0.0005		
3/6/2019					0.00015 (J)
4/4/2019					0.00019 (J)
8/22/2019	0.00017 (J)				
9/26/2019		<0.0005	<0.0005		0.00017 (J)
10/9/2019	0.00025 (J)				
3/25/2020	0.00021 (J)	<0.0005	0.00016 (J)		0.00019 (J)
9/24/2020	0.00014 (J)	<0.0005	<0.0005		
9/25/2020				0.00039 (J)	
10/7/2020					0.00012 (J)
2/9/2021		<0.0005		0.00042 (J)	
2/10/2021	<0.0005		<0.0005		<0.0005
3/4/2021	<0.0005	<0.0005	<0.0005	0.00028 (J)	<0.0005
8/25/2021	<0.0005			0.00094	
9/1/2021		<0.0005	<0.0005		
9/3/2021					<0.0005
2/8/2022		<0.0005			
2/10/2022	<0.0005		<0.0005	0.00093	
2/11/2022					<0.0005
8/31/2022		<0.0005	0.00011 (J)		
9/1/2022	<0.0005			0.0009	<0.0005
2/8/2023	0.00014 (J)			0.00076	
2/9/2023		<0.0005	0.00025 (J)		<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-49	PZ-35	PZ-37	YGWC-36A
Mean	0.0003839	0.0004747	0.000402	0.000582	0.00029
Std. Dev.	0.0001649	0.0001043	0.0001613	0.0002745	0.0001654
Upper Lim.	0.0005	0.0005	0.0005	0.000768	0.0005
Lower Lim.	0.0002	7E-05	0.00016	0.000396	0.00018

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWC-23S	YGWC-38
6/7/2016					<0.005	
7/28/2016					0.0008 (J)	
9/20/2016					<0.005	
11/8/2016					<0.005	
1/16/2017					<0.005	
3/9/2017					<0.005	
5/2/2017					0.0007 (J)	
7/10/2017					<0.005	
10/12/2017						0.0005 (J)
11/20/2017						<0.005
1/12/2018						<0.005
2/20/2018						<0.005
3/30/2018					<0.005	
4/3/2018						<0.005
6/28/2018						<0.005
8/7/2018						<0.005
9/24/2018						<0.005
3/6/2019					<0.005	
8/22/2019						<0.005
10/9/2019						<0.005
3/25/2020	0.00058 (J)					0.00065 (J)
3/26/2020					0.0019 (J)	
9/23/2020		0.00071 (J)	<0.005			
9/24/2020	0.00074 (J)			<0.005	0.0011 (J)	
9/25/2020						<0.005
2/9/2021	0.001 (J)	0.0011 (J)	0.00057 (J)	<0.005	0.00086 (J)	<0.005
3/3/2021	0.00076 (J)	0.0012 (J)	<0.005			
3/4/2021				<0.005	0.00078 (J)	<0.005
8/25/2021			<0.005		<0.005	
8/26/2021				<0.005		<0.005
9/1/2021	<0.005	0.003 (J)				
2/10/2022	0.0013 (J)	<0.005	<0.005	0.0016 (J)	<0.005	<0.005
8/31/2022	<0.005					
9/1/2022		<0.005	<0.005	<0.005	<0.005	<0.005
2/8/2023		<0.005	<0.005	<0.005	0.0014 (J)	<0.005
2/9/2023	<0.005					
Mean	0.002422	0.003001	0.004367	0.004514	0.003474	0.004508
Std. Dev.	0.002145	0.002004	0.001674	0.001285	0.001985	0.001431
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.00058	0.00071	0.00057	0.0016	0.00086	0.00065

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-41	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37
8/30/2016		<0.005				
8/31/2016			<0.005			
9/1/2016				0.0013 (J)		
11/15/2016				0.0014 (J)		
11/16/2016		<0.005	<0.005			
2/24/2017			<0.005			
2/27/2017		<0.005		0.0016 (J)		
5/9/2017				0.0017 (J)		
5/10/2017		0.0006 (J)	0.0005 (J)			
7/11/2017		<0.005	<0.005			
7/13/2017				0.0019 (J)		
10/11/2017				0.0014 (J)		
10/12/2017	<0.005	<0.005	<0.005			0.0019 (J)
11/21/2017	<0.005					0.0017 (J)
1/11/2018	<0.005					0.001 (J)
2/19/2018	<0.005					
2/20/2018						<0.005
4/3/2018	<0.005					<0.005
4/4/2018		<0.005	<0.005	<0.01		
6/27/2018	<0.005					
6/29/2018						<0.005
8/6/2018						<0.005
8/7/2018	<0.005					
9/20/2018		<0.005	<0.005	0.0017 (J)		
9/24/2018	<0.005					<0.005
8/21/2019			0.00062 (J)			
8/22/2019	<0.005	<0.005				
10/9/2019	<0.005	0.00043 (J)	0.00074 (J)			
3/25/2020	0.00039 (J)	0.0013 (J)	<0.005	0.0019 (J)	0.0012 (J)	
9/24/2020		<0.005		0.0019 (J)	0.00061 (J)	
9/25/2020	<0.005		0.00071 (J)			<0.005
2/9/2021			<0.005	0.002 (J)		<0.005
2/10/2021	<0.005	<0.005			0.0006 (J)	
3/4/2021	<0.005	<0.005	<0.005	0.0017 (J)	0.0007 (J)	<0.005
8/25/2021		<0.005				<0.005
8/26/2021	<0.005					
9/1/2021				0.002 (J)	<0.005	
9/27/2021			<0.005			
2/8/2022	<0.005		<0.005	0.0021 (J)		
2/10/2022		<0.005			<0.005	<0.005
8/31/2022				0.002 (J)	<0.005	
9/1/2022	<0.005	<0.005	<0.005			<0.005
2/8/2023	<0.005	<0.005	<0.005			<0.005
2/9/2023				0.002 (J)	0.0016 (J)	
Mean	0.004744	0.004296	0.004032	0.001975	0.002464	0.004307
Std. Dev.	0.001087	0.001627	0.001865	0.0008434	0.002127	0.001446
Upper Lim.	0.005	0.005	0.005	0.002	0.005	0.005
Lower Lim.	0.00039	0.0013	0.00074	0.0016	0.0006	0.0019

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-36A	YGWC-24SB
6/8/2016		<0.005
8/1/2016		<0.005
9/2/2016	<0.005	
9/20/2016		<0.005
11/8/2016		<0.005
11/14/2016	0.0035	
1/17/2017		<0.005
2/28/2017	<0.005	
3/8/2017		<0.005
5/2/2017		0.0011 (J)
5/9/2017	<0.005	
7/7/2017		<0.005
7/13/2017	<0.005	
9/22/2017	<0.005	
9/29/2017	<0.005	
10/6/2017	<0.005	
3/30/2018	<0.005	<0.005
3/5/2019		<0.005
3/6/2019	<0.005	
3/25/2020	0.00074 (J)	
3/26/2020		0.00094 (J)
9/23/2020		<0.005
10/7/2020	0.0013 (J)	
2/9/2021		0.0011 (J)
2/10/2021	0.00094 (J)	
3/3/2021		<0.005
3/4/2021	<0.005	
9/1/2021		<0.005
9/3/2021	<0.005	
2/10/2022		<0.005
2/11/2022	<0.005	
9/1/2022	<0.005	
2/9/2023	<0.005	
2/10/2023		<0.005
Mean	0.004249	0.004302
Std. Dev.	0.001542	0.001554
Upper Lim.	0.005	0.005
Lower Lim.	0.0035	0.0011

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWC-41	YGWC-42
8/30/2016						0.0025 (J)
11/16/2016						0.002 (J)
2/27/2017						0.0021 (J)
5/10/2017						0.0021 (J)
7/11/2017						0.0014 (J)
10/12/2017					0.0011 (J)	0.0017 (J)
11/21/2017					0.0003 (J)	
1/11/2018					0.0003 (J)	
2/19/2018					<0.005	
4/3/2018					<0.005	
4/4/2018						<0.005
6/27/2018					0.00069 (J)	
8/7/2018					<0.005	
9/20/2018						0.003 (J)
9/24/2018					<0.005	
10/16/2018	0.032					
8/22/2019					<0.005	0.0019 (J)
9/26/2019	0.015					
10/9/2019					<0.005	0.0019 (J)
1/3/2020	<0.005					
3/25/2020	<0.005				<0.005	0.0018 (J)
9/23/2020		0.0025 (J)	0.00052 (J)			
9/24/2020	0.01			0.00077 (J)		0.0017 (J)
9/25/2020					<0.005	
2/9/2021	0.03	0.001 (J)	0.00063 (J)	<0.005		
2/10/2021					<0.005	0.0019 (J)
3/3/2021	0.018	0.00082 (J)	0.001 (J)			
3/4/2021				<0.005	<0.005	0.0018 (J)
8/25/2021			0.00041 (J)			0.0014 (J)
8/26/2021				<0.005	<0.005	
9/1/2021	0.022	0.00093 (J)				
2/8/2022					<0.005	
2/10/2022	0.011	0.00052 (J)	0.00044 (J)	<0.005		0.0017 (J)
8/31/2022	0.0041 (J)					
9/1/2022		0.0068	0.00048 (J)	<0.005	<0.005	0.0015 (J)
2/8/2023		<0.005	0.00085 (J)	<0.005	<0.005	0.0018 (J)
2/9/2023	0.0045 (J)					
Mean	0.01424	0.002153	0.0006186	0.004396	0.004022	0.001928
Std. Dev.	0.01018	0.002202	0.0002249	0.001599	0.00189	0.000407
Upper Lim.	0.0223	0.00446	0.0008857	0.005	0.005	0.002174
Lower Lim.	0.00592	0.0003166	0.0003514	0.00077	0.0011	0.001682

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	PZ-35	PZ-37	YGWC-36A
8/31/2016	<0.005				
9/1/2016		<0.005			
9/2/2016					0.0006 (J)
11/14/2016					<0.005
11/15/2016		0.0006 (J)			
11/16/2016	<0.005				
2/24/2017	<0.005				
2/27/2017		0.0008 (J)			
2/28/2017					<0.005
5/9/2017		<0.005			<0.005
5/10/2017	<0.005				
7/11/2017	<0.005				
7/13/2017		0.0005 (J)			<0.005
9/22/2017					<0.005
9/29/2017					<0.005
10/6/2017					<0.005
10/11/2017		0.0006 (J)			
10/12/2017	0.0006 (J)			0.0078 (J)	
11/21/2017				0.0097 (J)	
1/11/2018				0.0131	
2/20/2018				0.0162	
3/30/2018					<0.005
4/3/2018				0.015	
4/4/2018	<0.005	<0.005			
6/13/2018					<0.005
6/29/2018				0.013	
8/6/2018				0.0053 (J)	
9/20/2018	0.0034 (J)	<0.005			
9/24/2018				0.0071 (J)	
9/26/2018					<0.005
10/16/2018			<0.005		
3/6/2019					<0.005
4/4/2019					<0.005
8/21/2019	0.0026 (J)				
9/26/2019		<0.005	<0.005		0.00048 (J)
10/9/2019	0.0023 (J)				
3/25/2020	0.0016 (J)	<0.005	0.0059		0.00038 (J)
9/24/2020		<0.005	<0.005		
9/25/2020	0.0018 (J)			0.0023 (J)	
10/7/2020					0.00086 (J)
2/9/2021	0.0017 (J)	<0.005		0.0023 (J)	
2/10/2021			<0.005		0.00038 (J)
3/4/2021	0.0015 (J)	<0.005	<0.005	0.003 (J)	<0.005
8/25/2021				0.0068	
9/1/2021		<0.005	<0.005		
9/3/2021					<0.005
9/27/2021	<0.005				
2/8/2022	0.00045 (J)	<0.005			
2/10/2022			<0.005	0.0036 (J)	
2/11/2022					<0.005
8/31/2022		<0.005	<0.005		
9/1/2022	0.0005 (J)			0.0025 (J)	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	PZ-35	PZ-37	YGWC-36A
2/8/2023	0.00049 (J)			0.0022 (J)	
2/9/2023		<0.005	<0.005		<0.005
Mean	0.002886	0.003971	0.00509	0.007327	0.003986
Std. Dev.	0.00189	0.001914	0.0002846	0.004972	0.001915
Upper Lim.	0.005	0.005	0.005	0.01012	0.005
Lower Lim.	0.0006	0.0008	0.005	0.003723	0.00086

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-4	YAMW-5	YGWC-23S	YGWC-38	YGWC-41
6/7/2016				0.303 (U)		
7/28/2016				0.386 (U)		
9/20/2016				1.47		
11/8/2016				0.22 (U)		
1/16/2017				0.147 (U)		
3/9/2017				0.0892 (U)		
5/2/2017				0.149 (U)		
7/10/2017				0.815 (U)		
10/12/2017					1.24	0.641 (U)
11/20/2017					0.342 (U)	
11/21/2017						2.01
1/11/2018						0.919 (U)
1/12/2018					1.04	
2/19/2018						1.82
2/20/2018					1.6 (U)	
3/30/2018				0.659 (U)		
4/3/2018					0.726 (U)	0.911 (U)
6/12/2018				1.03 (U)		
6/27/2018						0.429 (U)
6/28/2018					1.06 (U)	
8/7/2018					1.21	0.579 (U)
9/24/2018					1.52	1.39
9/27/2018				1.06 (U)		
10/16/2018	0.384 (U)					
3/6/2019				0.736 (U)		
4/4/2019				0.474 (U)		
8/22/2019					1.97	2.03
9/27/2019				0.684 (U)		
10/8/2019					0.751 (U)	0.609 (U)
3/25/2020	0.525 (U)				0.321 (U)	0.568 (U)
3/26/2020				0.281 (U)		
9/23/2020		1.2 (U)				
9/24/2020	0.547 (U)		0.668 (U)	0.788 (U)		
9/25/2020					0.246 (U)	0.769 (U)
2/9/2021	0.866 (U)	0.659 (U)	1.07 (U)	0.464 (U)	0.626 (U)	
2/10/2021						0.548 (U)
3/3/2021	0.377 (U)	1.07				
3/4/2021			1.46	0.771 (U)	0.816 (U)	1.23
8/25/2021		0.0991 (U)		0.624 (U)		
8/26/2021			0.724 (U)		0.427 (U)	0.356 (U)
9/1/2021	0.676 (U)					
2/8/2022						0.594 (U)
2/10/2022	0.233 (U)	0.702 (U)	1.25 (U)	0.197 (U)	0.791 (U)	
8/31/2022	0.313 (U)					
9/1/2022		0.381 (U)	0.811 (U)	1.23 (U)	0.52 (U)	0.0906 (U)
2/8/2023		0.239 (U)	0.502 (U)	0.4 (U)	0.361 (U)	0.852 (U)
2/9/2023	0.595 (U)					
Mean	0.5018	0.6214	0.9264	0.5899	0.8648	0.9081
Std. Dev.	0.1974	0.4125	0.3443	0.3764	0.4931	0.5677
Upper Lim.	0.6923	1.111	1.335	0.7919	1.163	1.183
Lower Lim.	0.3112	0.1315	0.5175	0.3878	0.5665	0.5318

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37	YGWC-36A
8/30/2016	2.99					
8/31/2016		0.926 (U)				
9/1/2016			1.2			
9/2/2016						0.873 (U)
9/22/2016						0.667 (U)
9/29/2016						1.63
10/6/2016						0.641 (U)
11/14/2016						0.0451 (U)
11/15/2016			0.645 (U)			
11/16/2016	4.01	0.773 (U)				
2/24/2017		0.661 (U)				
2/27/2017	2.5		0.244 (U)			
2/28/2017						1.34 (U)
5/9/2017			0.519 (U)			0.309 (U)
5/10/2017	2.55	1.27				
7/11/2017	3.94	1.02				
7/13/2017			0.5 (U)			0.618 (U)
10/11/2017			1.41			
10/12/2017	3.57	1.58			1.83	
11/21/2017					1.33	
1/11/2018					1.53	
2/20/2018					2.75	
3/30/2018						0.721 (U)
4/3/2018					1.47	
4/4/2018	1.9	1.71	0.442 (U)			
6/13/2018						1.04 (U)
6/29/2018					1.69	
8/6/2018					1.69	
9/20/2018	1.94	2.8	1.14 (U)			
9/24/2018					2.26	
9/26/2018						0.604 (U)
10/16/2018				0.363 (U)		
3/6/2019						0.919 (U)
4/4/2019						1.05 (U)
8/21/2019		3.16				
8/22/2019	1.59					
9/26/2019			1.16 (U)			0.979 (U)
10/8/2019	0.995 (U)	3.65				
3/25/2020	1.17 (U)	3.04	1.2 (U)	0.197 (U)		1.22 (U)
9/24/2020	0.751 (U)		1.57 (U)	1.07 (U)		
9/25/2020		4.75			1.68 (U)	
10/7/2020						1.58
2/9/2021		6.38	0.137 (U)		1.52	
2/10/2021	0.612 (U)			0.546 (U)		0.466 (U)
3/4/2021	1.02	6.02	0.579 (U)	0.397 (U)	1.49	0.0671 (U)
8/25/2021	0.978 (U)				1.41	
9/1/2021			0.686 (U)	0.696 (U)		
9/3/2021						0.622 (U)
9/27/2021		1.54				
2/8/2022		3.11	0.201 (U)			
2/10/2022	0.307 (U)			1.25 (U)	0.81 (U)	
2/11/2022						0.395 (U)

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37	YGWC-36A
8/31/2022			0.823 (U)	0.326 (U)		
9/1/2022	0.596 (U)	4.16			0.463 (U)	0.189 (U)
2/8/2023	0.817	3.73			0.742 (U)	
2/9/2023			0.667 (U)	0.718 (U)		0.326 (U)
Mean	1.791	2.793	0.7719	0.6181	1.511	0.741
Std. Dev.	1.204	1.76	0.4349	0.3538	0.568	0.449
Upper Lim.	2.361	3.858	1.044	0.9597	1.896	0.982
Lower Lim.	0.9873	1.728	0.4995	0.2765	1.126	0.4999

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-24SB
6/8/2016	1.06
8/1/2016	0.467 (U)
9/20/2016	0.853 (U)
11/8/2016	0.433 (U)
1/17/2017	0.0759 (U)
3/8/2017	0.479 (U)
5/2/2017	0.506 (U)
7/7/2017	0.713 (U)
3/30/2018	0.409 (U)
6/12/2018	0.728 (U)
9/26/2018	0.981
3/5/2019	0.837 (U)
4/9/2019	0.502 (U)
9/26/2019	0.964 (U)
3/26/2020	0.511 (U)
9/23/2020	0.786 (U)
2/9/2021	0.678 (U)
3/3/2021	0.415 (U)
9/1/2021	0.444 (U)
2/10/2022	0.846 (U)
2/10/2023	0.137 (U)
Mean	0.6107
Std. Dev.	0.2653
Upper Lim.	0.7571
Lower Lim.	0.4643

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-2	YAMW-4	YAMW-5	YGWC-23S	YGWC-38	YGWC-41
6/7/2016				<0.1		
7/28/2016				0.03 (J)		
9/20/2016				<0.1		
11/8/2016				<0.1		
1/16/2017				<0.1		
3/9/2017				<0.1		
5/2/2017				<0.1		
7/10/2017				<0.1		
10/11/2017				<0.1		
10/12/2017					<0.1	<0.1
11/20/2017					0.2 (J)	
11/21/2017						<0.1
1/11/2018						<0.1
1/12/2018					0.21 (J)	
2/19/2018						<0.1
2/20/2018					<0.1	
3/30/2018				<0.1		
4/3/2018					0.41	<0.1
6/12/2018				<0.1		
6/27/2018						<0.1
6/28/2018					0.43	
8/7/2018					<0.1	0.11 (J)
9/24/2018					0.034 (J)	<0.1
9/27/2018				<0.1		
3/6/2019				<0.1		
3/27/2019					0.24 (J)	
3/28/2019						0.1 (J)
4/4/2019				0.049 (J)		
8/22/2019					<0.1	<0.1
9/27/2019				0.12 (J)		
10/9/2019					<0.1	<0.1
3/25/2020					<0.1	<0.1
3/26/2020				<0.1		
9/23/2020	<0.1	<0.1				
9/24/2020			<0.1	<0.1		
9/25/2020					<0.1	<0.1
2/9/2021	<0.1	0.14	<0.1	<0.1	<0.1	
2/10/2021						<0.1
3/3/2021	<0.1	0.14				
3/4/2021			<0.1	<0.1	<0.1	<0.1
8/25/2021		<0.1		<0.1		
8/26/2021			<0.1		<0.1	<0.1
9/1/2021	<0.1					
2/8/2022						<0.1
2/10/2022	<0.1	<0.1	<0.1	<0.1	<0.1	
9/1/2022	0.063 (J)	0.078 (J)	0.055 (J)	0.057 (J)	<0.1	<0.1
2/8/2023	0.061 (J)	0.079 (J)	0.05 (J)	<0.1	<0.1	<0.1
Mean	0.08914	0.1053	0.08643	0.09374	0.1486	0.1005
Std. Dev.	0.01855	0.02559	0.02322	0.02005	0.107	0.002294
Upper Lim.	0.1	0.1107	0.1	0.12	0.21	0.11
Lower Lim.	0.061	0.06478	0.05	0.057	0.034	0.1

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	PZ-37	YGWC-36A	PZ-37D
8/30/2016	0.02 (J)					
8/31/2016		0.12 (J)				
9/1/2016			0.09 (J)			
9/2/2016					0.05 (J)	
11/14/2016					0.18 (J)	
11/15/2016			0.16 (J)			
11/16/2016	0.07 (J)	0.2 (J)				
2/24/2017		0.21 (J)				
2/27/2017	0.06 (J)		0.06 (J)			
2/28/2017					0.09 (J)	
5/9/2017			0.05 (J)		0.009 (J)	
5/10/2017	<0.1	0.04 (J)				
7/11/2017	<0.1	0.2 (J)				
7/13/2017			<0.1		<0.1	
9/22/2017					0.09 (J)	
9/29/2017					<0.1	
10/6/2017					<0.1	
10/11/2017			0.14 (J)		<0.1	
10/12/2017	<0.1	0.1 (J)		<0.1		
11/21/2017				0.26 (J)		
1/11/2018				<0.1		
2/20/2018				0.45		
3/30/2018					<0.1	
4/3/2018				0.31		
4/4/2018	<0.1	<0.1	<0.1			
6/13/2018					<0.1	
6/29/2018				<0.1		
8/6/2018				0.23 (J)		
9/20/2018	0.041 (J)	<0.1	<0.1			
9/24/2018				<0.1		
9/26/2018					<0.1	
3/6/2019					<0.1	
3/27/2019	<0.1					
3/28/2019		0.078 (J)	<0.1			
4/4/2019					0.043 (J)	
8/21/2019		0.062 (J)				
8/22/2019	<0.1					
9/26/2019			0.09 (J)		0.094 (J)	
10/9/2019	<0.1	<0.1				
3/25/2020	<0.1	0.073 (J)	<0.1		<0.1	
9/24/2020	<0.1		<0.1			
9/25/2020		<0.1		<0.1		
10/7/2020					<0.1	
2/9/2021		0.058 (J)	<0.1	<0.1		
2/10/2021	<0.1				<0.1	
3/4/2021	<0.1	0.063 (J)	<0.1	<0.1	<0.1	
8/25/2021	<0.1			<0.1		
9/1/2021			<0.1			
9/3/2021					<0.1	0.15
9/27/2021		0.1				
2/8/2022		0.066 (J)	<0.1			
2/10/2022	<0.1			<0.1		

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	PZ-37	YGWC-36A	PZ-37D
2/11/2022					<0.1	0.17
8/31/2022			<0.1			
9/1/2022	0.053 (J)	0.091 (J)		<0.1	<0.1	0.35
2/8/2023	0.08 (J)	0.11		<0.1		0.2
2/9/2023			<0.1		<0.1	
Mean	0.08547	0.1037	0.09944	0.1567	0.09374	0.2175
Std. Dev.	0.0247	0.04885	0.02363	0.1072	0.02997	0.09069
Upper Lim.	0.1	0.1061	0.14	0.26	0.1	0.4234
Lower Lim.	0.06	0.06255	0.09	0.1	0.094	0.0116

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-24SB
6/8/2016	<0.1
8/1/2016	<0.1
9/20/2016	<0.1
11/8/2016	<0.1
1/17/2017	<0.1
3/8/2017	<0.1
5/2/2017	<0.1
7/7/2017	<0.1
10/5/2017	<0.1
3/30/2018	<0.1
6/12/2018	<0.1
9/26/2018	<0.1
3/5/2019	<0.1
4/4/2019	0.033 (J)
9/26/2019	0.098 (J)
3/26/2020	<0.1
9/23/2020	<0.1
2/9/2021	<0.1
3/3/2021	<0.1
9/1/2021	<0.1
2/10/2022	<0.1
2/10/2023	0.051 (J)
Mean	0.09464
Std. Dev.	0.01727
Upper Lim.	0.1
Lower Lim.	0.098

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWC-23S	YGWC-38
6/7/2016					0.00044 (J)	
7/28/2016					<0.001	
9/20/2016					<0.001	
11/8/2016					<0.001	
1/16/2017					<0.001	
3/9/2017					<0.001	
5/2/2017					<0.001	
7/10/2017					<0.001	
10/12/2017						0.0001 (J)
11/20/2017						0.0001 (J)
1/12/2018						0.0001 (J)
2/20/2018						<0.001
3/30/2018					<0.001	
4/3/2018						<0.001
6/28/2018						<0.001
8/7/2018						<0.001
9/24/2018						<0.001
3/6/2019					<0.001	
4/4/2019					<0.001	
8/22/2019						<0.001
9/26/2019	<0.001					
9/27/2019					0.00013 (J)	
10/9/2019						<0.001
3/25/2020	<0.001					<0.001
3/26/2020					<0.001	
9/23/2020		<0.001	0.00028 (J)			
9/24/2020	<0.001			0.00011 (J)	4.6E-05 (J)	
9/25/2020						<0.001
2/9/2021	0.00019 (J)	0.00011 (J)	0.00054 (J)	7.3E-05 (J)	<0.001	<0.001
3/3/2021	<0.001	8E-05 (J)	9.6E-05 (J)			
3/4/2021				4.1E-05 (J)	0.00021 (J)	<0.001
8/25/2021			<0.001		<0.001	
8/26/2021				<0.001		<0.001
9/1/2021	<0.001	<0.001				
2/10/2022	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/31/2022	<0.001					
9/1/2022		<0.001	<0.001	<0.001	<0.001	<0.001
2/8/2023		<0.001	<0.001	<0.001	<0.001	<0.001
2/9/2023	<0.001					
Mean	0.00091	0.0007414	0.0007023	0.0006034	0.0008413	0.00085
Std. Dev.	0.00027	0.0004417	0.000393	0.000495	0.0003325	0.0003451
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.00019	8E-05	9.6E-05	4.1E-05	0.00044	0.0001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-41	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37
8/30/2016		<0.001				
8/31/2016			<0.001			
9/1/2016				<0.001		
11/15/2016				<0.001		
11/16/2016		0.0002 (J)	<0.001			
2/24/2017			<0.001			
2/27/2017		<0.001		<0.001		
5/9/2017				<0.001		
5/10/2017		9E-05 (J)	8E-05 (J)			
7/11/2017		<0.001	<0.001			
7/13/2017				<0.001		
10/11/2017				<0.001		
10/12/2017	<0.001	<0.001	<0.001			0.0002 (J)
11/21/2017	<0.001					0.0002 (J)
1/11/2018	7E-05 (J)					0.0001 (J)
2/19/2018	<0.001					
2/20/2018						<0.001
4/3/2018	<0.001					<0.001
4/4/2018		<0.001	<0.001	<0.001		
6/27/2018	0.0011 (J)					
6/29/2018						<0.001
8/6/2018						<0.001
8/7/2018	<0.001					
9/20/2018		<0.001	<0.001	<0.001		
9/24/2018	<0.001					<0.001
8/21/2019			<0.001			
8/22/2019	6.7E-05 (J)	<0.001				
9/26/2019				<0.001	<0.001	
10/9/2019	0.00012 (J)	<0.001	<0.001			
3/25/2020	<0.001	4.7E-05 (J)	7.5E-05 (J)	5.9E-05 (J)	<0.001	
9/24/2020		<0.001		<0.001	<0.001	
9/25/2020	<0.001		<0.001			8.5E-05 (J)
2/9/2021			<0.001	<0.001		8.8E-05 (J)
2/10/2021	0.0002 (J)	5.4E-05 (J)			8.7E-05 (J)	
3/4/2021	<0.001	<0.001	<0.001	<0.001	0.00015 (J)	<0.001
8/25/2021		<0.001				<0.001
8/26/2021	<0.001					
9/1/2021				<0.001	<0.001	
9/27/2021			<0.001			
2/8/2022	<0.001		<0.001	<0.001		
2/10/2022		<0.001			<0.001	<0.001
8/31/2022				<0.001	<0.001	
9/1/2022	<0.001	<0.001	<0.001			<0.001
2/8/2023	<0.001	<0.001	<0.001			<0.001
2/9/2023				<0.001	<0.001	
Mean	0.0008087	0.0007995	0.0008975	0.0009446	0.0008041	0.0007115
Std. Dev.	0.0003836	0.0003871	0.0002983	0.0002282	0.000389	0.0004235
Upper Lim.	0.0011	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.0002	0.0002	8E-05	5.9E-05	8.7E-05	0.0001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-36A	YGWC-24SB
6/8/2016		<0.001
8/1/2016		<0.001
9/2/2016	0.0017 (J)	
9/20/2016		<0.001
11/8/2016		<0.001
11/14/2016	0.0002 (J)	
1/17/2017		<0.001
2/28/2017	0.0003 (J)	
3/8/2017		<0.001
5/2/2017		<0.001
5/9/2017	0.0004 (J)	
7/7/2017		<0.001
7/13/2017	0.0004 (J)	
9/22/2017	0.0003 (J)	
9/29/2017	0.0002 (J)	
10/6/2017	0.0002 (J)	
3/30/2018	<0.001	<0.001
3/5/2019		<0.001
3/6/2019	<0.001	
4/4/2019	0.00037 (J)	<0.001
9/26/2019	0.00023 (J)	<0.001
3/25/2020	0.0001 (J)	
3/26/2020		5.3E-05 (J)
9/23/2020		<0.001
10/7/2020	0.00077 (J)	
2/9/2021		0.00036 (J)
2/10/2021	0.00051 (J)	
3/3/2021		<0.001
3/4/2021	0.00025 (J)	
9/1/2021		<0.001
9/3/2021	<0.001	
2/10/2022		<0.001
2/11/2022	<0.001	
9/1/2022	<0.001	
2/9/2023	<0.001	
2/10/2023		<0.001
Mean	0.0005965	0.0009165
Std. Dev.	0.0004298	0.0002554
Upper Lim.	0.0004641	0.001
Lower Lim.	0.0001697	0.00036

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-3	YAMW-4	YAMW-5	YGWC-23S	YGWC-38
6/7/2016					<0.005	
7/28/2016					0.0019 (J)	
9/20/2016					0.0021 (J)	
11/8/2016					0.0024 (J)	
1/16/2017					0.0022 (J)	
3/9/2017					0.0025 (J)	
5/2/2017					0.0019 (J)	
7/10/2017					0.0018 (J)	
10/12/2017						0.0095 (J)
11/20/2017						0.0083 (J)
1/12/2018						0.0089 (J)
2/20/2018						0.0082 (J)
3/30/2018					0.0039 (J)	
4/3/2018						0.0097 (J)
6/12/2018					0.0017 (J)	
6/28/2018						0.0093 (J)
8/7/2018						0.0092 (J)
9/24/2018						0.0083 (J)
9/27/2018					0.0017 (J)	
10/16/2018	0.0052 (J)					
3/6/2019					0.0025 (J)	
4/4/2019					0.0018 (J)	
8/22/2019						0.0082 (J)
9/26/2019	<0.03					
9/27/2019					0.0017 (J)	
10/9/2019						0.0081 (J)
3/25/2020	0.0011 (J)					0.0081 (J)
3/26/2020					0.0021 (J)	
9/23/2020			0.03 (J)			
9/24/2020	0.011 (J)			0.013 (J)	0.0035 (J)	
9/25/2020						0.0069 (J)
2/9/2021	0.021 (J)		0.018 (J)	0.016 (J)	0.0026 (J)	0.0067 (J)
3/3/2021	0.022 (J)		0.02 (J)			
3/4/2021				0.016 (J)	0.0026 (J)	0.0067 (J)
8/25/2021			0.033		0.0026 (J)	
8/26/2021				0.015 (J)		0.007 (J)
9/1/2021	0.013 (J)					
12/9/2021		0.042				
2/10/2022	0.014 (J)	0.054	0.036	0.015 (J)	0.0029 (J)	0.0068 (J)
8/31/2022	0.021 (J)					
9/1/2022		0.041	0.032	0.013 (J)	0.0025 (J)	0.006 (J)
2/8/2023			0.033	0.014 (J)	0.0028 (J)	0.0058 (J)
2/9/2023	0.019 (J)	0.048				
Mean	0.01423	0.04625	0.02886	0.01457	0.002373	0.007872
Std. Dev.	0.007003	0.006021	0.006986	0.001272	0.0005742	0.001211
Upper Lim.	0.02048	0.05992	0.03625	0.01608	0.002681	0.008605
Lower Lim.	0.007982	0.03258	0.02086	0.01306	0.002065	0.007139

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-41	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37
8/30/2016		0.0257 (J)				
8/31/2016			0.006 (J)			
9/1/2016				0.0034 (J)		
11/15/2016				0.0044 (J)		
11/16/2016		0.0221 (J)	0.0095 (J)			
2/24/2017			0.0104 (J)			
2/27/2017		0.0208 (J)		0.0036 (J)		
5/9/2017				0.0038 (J)		
5/10/2017		0.0316 (J)	0.0123 (J)			
7/11/2017		0.0281 (J)	0.0131 (J)			
7/13/2017				0.0036 (J)		
10/11/2017				0.0036 (J)		
10/12/2017	0.004 (J)	0.0331 (J)	0.013 (J)			0.0271 (J)
11/21/2017	0.0043 (J)					0.0255 (J)
1/11/2018	0.0044 (J)					0.0271 (J)
2/19/2018	<0.05					
2/20/2018						<0.25
4/3/2018	0.0047 (J)					0.027 (J)
4/4/2018		0.037 (J)	0.016 (J)	0.0039 (J)		
6/27/2018	0.0042 (J)					
6/29/2018						0.032 (J)
8/6/2018						0.033 (J)
8/7/2018	0.0038 (J)					
9/20/2018		0.049 (J)	0.019 (J)	0.0036 (J)		
9/24/2018	0.0037 (J)					0.028 (J)
10/16/2018					0.0011 (J)	
8/21/2019			0.015 (J)			
8/22/2019	0.0035 (J)	0.047				
9/26/2019				0.0036 (J)	<0.03	
10/9/2019	0.0032 (J)	0.037	0.018 (J)			
3/25/2020	0.0029 (J)	0.045	0.016 (J)	0.0037 (J)	0.011 (J)	
9/24/2020		0.05		0.0037 (J)	0.001 (J)	
9/25/2020	0.0025 (J)		0.018 (J)			0.028 (J)
2/9/2021			0.024 (J)	0.0038 (J)		0.024 (J)
2/10/2021	0.0021 (J)	0.058			0.0012 (J)	
3/4/2021	0.0021 (J)	0.059	0.025 (J)	0.0035 (J)	0.0015 (J)	0.028 (J)
8/25/2021		0.053				0.023 (J)
8/26/2021	0.0021 (J)					
9/1/2021				0.0036 (J)	0.0019 (J)	
9/27/2021			0.0092 (J)			
2/8/2022	0.0023 (J)		0.016 (J)	0.0036 (J)		
2/10/2022		0.052			0.0021 (J)	0.017 (J)
8/31/2022				0.0031 (J)	0.0025 (J)	
9/1/2022	0.0019 (J)	0.054	0.014 (J)			0.016 (J)
2/8/2023	0.0021 (J)	0.046	0.015 (J)			0.013 (J)
2/9/2023				0.0033 (J)	0.0026 (J)	
Mean	0.004378	0.04158	0.01497	0.003635	0.00399	0.03158
Std. Dev.	0.005232	0.01239	0.00485	0.0002737	0.004873	0.02645
Upper Lim.	0.0043	0.04908	0.01791	0.003802	0.011	0.032
Lower Lim.	0.0021	0.03408	0.01204	0.003463	0.0011	0.017

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-36A	PZ-37D
9/2/2016	0.0029 (J)	
11/14/2016	0.0044 (J)	
2/28/2017	0.0038 (J)	
5/9/2017	0.0057 (J)	
7/13/2017	0.007 (J)	
9/22/2017	0.0067 (J)	
9/29/2017	0.0064 (J)	
10/6/2017	0.0065 (J)	
3/30/2018	0.0061 (J)	
6/13/2018	0.0065 (J)	
9/26/2018	0.0063 (J)	
3/6/2019	0.0057 (J)	
4/4/2019	0.0058 (J)	
9/26/2019	0.0041 (J)	
3/25/2020	0.0032 (J)	
10/7/2020	0.0014 (J)	
2/10/2021	0.0011 (J)	
3/4/2021	<0.03	
9/3/2021	0.00086 (J)	0.013 (J)
2/11/2022	0.00093 (J)	0.0087 (J)
9/1/2022	0.00089 (J)	0.0044 (J)
2/8/2023		0.0088 (J)
2/9/2023	0.001 (J)	
Mean	0.004649	0.008725
Std. Dev.	0.003238	0.003511
Upper Lim.	0.005916	0.0167
Lower Lim.	0.002611	0.0007531

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-23S	YGWC-38	YGWC-41	YGWC-42	YGWC-43	YGWC-49
6/7/2016	9.8E-05 (J)					
7/28/2016	<0.0002					
8/30/2016				<0.0002		
8/31/2016					<0.0002	
9/1/2016						<0.0002
9/20/2016	<0.0002					
11/8/2016	<0.0002					
11/15/2016						<0.0002
11/16/2016				<0.0002	<0.0002	
1/16/2017	<0.0002					
2/24/2017					<0.0002	
2/27/2017				<0.0002		<0.0002
3/9/2017	<0.0002					
5/2/2017	<0.0002					
5/9/2017						<0.0002
5/10/2017				<0.0002	<0.0002	
7/10/2017	<0.0002					
7/11/2017				<0.0002	<0.0002	
7/13/2017						<0.0002
10/11/2017						<0.0002
10/12/2017		<0.0002	<0.0002	<0.0002	<0.0002	
11/20/2017		8E-05 (J)				
11/21/2017			6E-05 (J)			
1/11/2018			<0.0002			
1/12/2018		<0.0002				
2/19/2018			<0.0002			
2/20/2018		<0.0002				
3/30/2018	<0.0002					
4/3/2018		<0.0002	<0.0002			
4/4/2018				<0.0002	<0.0002	<0.0002
6/27/2018			<0.0002			
6/28/2018		3.7E-05 (J)				
8/7/2018		<0.0002	<0.0002			
9/20/2018				4.8E-05 (J)	5.2E-05 (J)	6.1E-05 (J)
9/24/2018		<0.0002	<0.0002			
9/27/2018	<0.0002					
3/6/2019	<0.0002					
8/21/2019					<0.0002	
8/22/2019		<0.0002	<0.0002	<0.0002		
2/9/2021	0.00015 (J)	<0.0002			<0.0002	0.00014 (J)
2/10/2021			<0.0002	<0.0002		
3/4/2021	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/25/2021	<0.0002			<0.0002		
8/26/2021		<0.0002	<0.0002			
9/1/2021						<0.0002
9/27/2021					9E-05 (JB)	
2/8/2022			<0.0002		<0.0002	<0.0002
2/10/2022	<0.0002	<0.0002		<0.0002		
8/31/2022						<0.0002
9/1/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
2/8/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
2/9/2023						<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-23S	YGWC-38	YGWC-41	YGWC-42	YGWC-43	YGWC-49
Mean	0.0001911	0.0001811	0.0001907	0.0001899	0.0001828	0.0001858
Std. Dev.	2.686E-05	5.045E-05	3.615E-05	3.925E-05	4.596E-05	3.931E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	0.00015	8E-05	6E-05	4.8E-05	9E-05	0.00014

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-37
10/12/2017	<0.0002
11/21/2017	6E-05 (J)
1/11/2018	<0.0002
2/20/2018	<0.0002
4/3/2018	<0.0002
6/29/2018	<0.0002
8/6/2018	<0.0002
9/24/2018	<0.0002
9/25/2020	<0.0002
2/9/2021	<0.0002
3/4/2021	<0.0002
8/25/2021	<0.0002
2/10/2022	<0.0002
9/1/2022	0.00019 (J)
2/8/2023	<0.0002
Mean	0.00019
Std. Dev.	3.606E-05
Upper Lim.	0.0002
Lower Lim.	0.00019

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-4	YGWC-42	YGWC-43	YGWC-49	PZ-35
8/30/2016			0.0019 (J)			
8/31/2016				0.0022 (J)		
9/1/2016					<0.01	
11/15/2016					<0.01	
11/16/2016			0.0027 (J)	<0.01		
2/24/2017				<0.01		
2/27/2017			0.0031 (J)		0.0007 (J)	
5/9/2017					<0.01	
5/10/2017			0.0017 (J)	<0.01		
7/11/2017			0.0014 (J)	<0.01		
7/13/2017					<0.01	
10/11/2017					<0.01	
10/12/2017			<0.01	<0.01		
4/4/2018			<0.01	<0.01	<0.01	
9/20/2018			<0.01	<0.01	<0.01	
8/21/2019				0.0012 (J)		
8/22/2019			<0.01			
10/9/2019			<0.01	0.0012 (J)		
3/25/2020	<0.01		<0.01	0.0015 (J)	<0.01	0.0019 (J)
9/23/2020		0.0068 (J)				
9/24/2020	0.0022 (J)		0.00091 (J)		<0.01	<0.01
9/25/2020				0.0011 (J)		
2/9/2021	0.0038 (J)	0.0068 (J)		0.0012 (J)	<0.01	
2/10/2021			0.00094 (J)			<0.01
3/3/2021	0.0037 (J)	0.0049 (J)				
3/4/2021			0.00085 (J)	0.0011 (J)	<0.01	<0.01
8/25/2021		0.0081 (J)	0.00078 (J)			
9/1/2021	0.0014 (J)				<0.01	<0.01
9/27/2021				0.0062 (J)		
2/8/2022				0.002 (J)	<0.01	
2/10/2022	0.00089 (J)	0.0076 (J)	0.0008 (J)			<0.01
8/31/2022	<0.01				<0.01	<0.01
9/1/2022		0.0074 (J)	0.00079 (J)	0.0014 (J)		
2/8/2023		0.0076 (J)	0.00081 (J)	0.0016 (J)		
2/9/2023	<0.01				<0.01	<0.01
Mean	0.005249	0.007029	0.00426	0.005039	0.009419	0.008987
Std. Dev.	0.004059	0.001047	0.004226	0.004227	0.002325	0.002864
Upper Lim.	0.00368	0.008272	0.01	0.01	0.01	0.01
Lower Lim.	0.001155	0.005785	0.00081	0.0012	0.0007	0.0019

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-37	YGWC-36A
9/2/2016		0.0027 (J)
11/14/2016		0.0071 (J)
2/28/2017		0.0038 (J)
5/9/2017		0.0025 (J)
7/13/2017		0.0014 (J)
9/22/2017		<0.01
9/29/2017		<0.01
10/6/2017		<0.01
10/12/2017	0.0022 (J)	
11/21/2017	0.0016 (J)	
1/11/2018	0.0015 (J)	
2/20/2018	<0.01	
3/30/2018		<0.01
4/3/2018	<0.01	
6/29/2018	0.0021 (J)	
8/6/2018	<0.01	
9/24/2018	<0.01	
3/6/2019		<0.01
3/25/2020		<0.01
9/25/2020	0.0016 (J)	
10/7/2020		0.0015 (J)
2/9/2021	0.0016 (J)	
2/10/2021		<0.01
3/4/2021	0.0024 (J)	<0.01
8/25/2021	0.0011 (J)	
9/3/2021		<0.01
2/10/2022	<0.01	
2/11/2022		<0.01
9/1/2022	<0.01	<0.01
2/8/2023	<0.01	
2/9/2023		<0.01
Mean	0.005607	0.007722
Std. Dev.	0.004265	0.003508
Upper Lim.	0.01	0.01
Lower Lim.	0.0015	0.0027

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-4	YAMW-5	YGWC-23S	YGWC-38	YGWC-41
6/7/2016				0.037		
7/28/2016				0.0385		
9/20/2016				0.0464		
11/8/2016				0.0521		
1/16/2017				0.0469		
3/9/2017				0.0437		
5/2/2017				0.0395		
7/10/2017				0.0386		
10/12/2017					0.265	0.0191
11/20/2017					0.246	
11/21/2017						0.0687
1/11/2018						0.069
1/12/2018					0.249	
2/19/2018						0.071
2/20/2018					0.253	
3/30/2018				0.028		
4/3/2018					0.23	0.067
6/12/2018				0.026		
6/27/2018						0.066
6/28/2018					0.23	
8/7/2018					0.2	0.061
9/24/2018					0.2	0.061
9/27/2018				0.023		
10/16/2018	0.0019 (J)					
3/6/2019				0.019		
4/4/2019				0.017		
8/22/2019					0.14	0.058
9/26/2019	<0.005					
9/27/2019				0.018		
10/9/2019					0.12	0.052
1/15/2020			0.045			
1/16/2020		0.0018 (J)				
3/25/2020	<0.005				0.099	0.057
3/26/2020				0.024		
9/23/2020		0.016				
9/24/2020	<0.005		0.026	0.031		
9/25/2020					0.076	0.046
2/9/2021	<0.005	<0.005	0.06	0.032	0.073	
2/10/2021						0.033
3/3/2021	<0.005	<0.005				
3/4/2021			0.061	0.037	0.076	0.037
8/25/2021		0.019		0.032		
8/26/2021			0.055		0.06	0.027
9/1/2021	0.0027 (J)					
2/8/2022						0.031
2/10/2022	0.0034 (J)	0.019	0.057	0.039	0.064	
8/31/2022	0.0041 (J)					
9/1/2022		0.023	0.048	0.036	0.055	0.027
2/8/2023		0.017	0.052	0.035	0.056	0.027
2/9/2023	0.0051					
Mean	0.00422	0.01322	0.0505	0.03362	0.1496	0.04877
Std. Dev.	0.001164	0.008018	0.01135	0.009677	0.08206	0.01783

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-4	YAMW-5	YGWC-23S	YGWC-38	YGWC-41
Upper Lim.	0.005	0.02008	0.06099	0.03882	0.246	0.067
Lower Lim.	0.0027	0.001939	0.04008	0.02843	0.064	0.031

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-49	PZ-35	PZ-37	YGWC-36A
8/30/2016	0.0711				
9/1/2016		0.0086 (J)			
9/2/2016					0.0012 (J)
11/14/2016					<0.005
11/15/2016		0.0056 (J)			
11/16/2016	0.0313				
2/27/2017	0.0316	0.0098 (J)			
2/28/2017					0.0017 (J)
5/9/2017		0.0076 (J)			0.0018 (J)
5/10/2017	0.053				
7/11/2017	0.0697				
7/13/2017		0.0093 (J)			0.0031 (J)
9/22/2017					0.0024 (J)
9/29/2017					0.002 (J)
10/6/2017					<0.005
10/11/2017		0.0089 (J)			
10/12/2017	0.0594			0.234	
11/21/2017				0.225	
1/11/2018				0.168	
2/20/2018				0.315	
3/30/2018					<0.005
4/3/2018				0.28	
4/4/2018	0.055	<0.01			
6/13/2018					0.0024 (J)
6/29/2018				0.26	
8/6/2018				0.21	
9/20/2018	0.041	0.0081 (J)			
9/24/2018				0.33	
9/26/2018					0.0037 (J)
10/16/2018			<0.005		
3/6/2019					0.0033 (J)
4/4/2019					0.0029 (J)
8/22/2019	0.047				
9/26/2019		0.0077 (J)	<0.005		0.0019 (J)
10/9/2019	0.042				
3/25/2020	0.046	0.0085 (J)	<0.005		0.0024 (J)
9/24/2020	0.046	0.0091 (J)	<0.005		
9/25/2020				0.32	
10/7/2020					<0.005
2/9/2021		0.0079 (J)		0.28	
2/10/2021	0.043		<0.005		<0.005
3/4/2021	0.048	0.0058	<0.005	0.27	<0.005
8/25/2021	0.043			0.2	
9/1/2021		0.0066	0.0016 (J)		
9/3/2021					<0.005
2/8/2022		0.0075			
2/10/2022	0.044		0.003 (J)	0.2	
2/11/2022					<0.005
8/31/2022		0.0062	0.0033 (J)		
9/1/2022	0.035			0.17	<0.005
2/8/2023	0.041			0.16	
2/9/2023		0.0054	0.0041 (J)		0.0027 (J)

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-49	PZ-35	PZ-37	YGWC-36A
Mean	0.04706	0.007506	0.0042	0.2415	0.003477
Std. Dev.	0.01116	0.001489	0.001195	0.05697	0.001403
Upper Lim.	0.05382	0.008439	0.005	0.2801	0.005
Lower Lim.	0.04031	0.006573	0.003	0.2029	0.002

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV

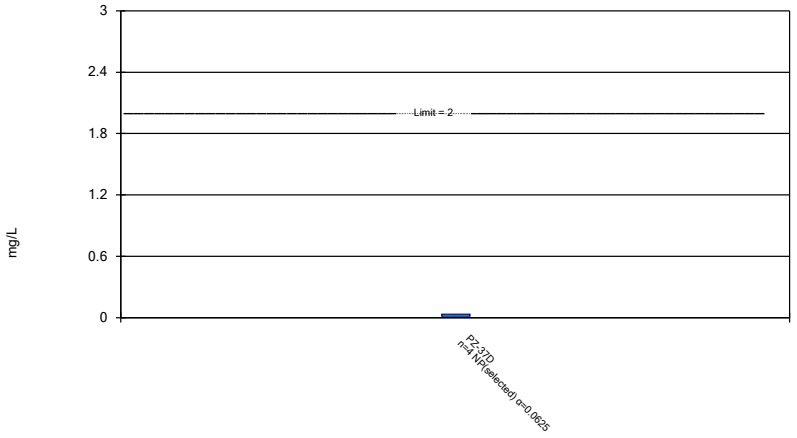
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49
9/1/2016	<0.001
11/15/2016	<0.001
2/27/2017	9E-05 (J)
5/9/2017	<0.001
7/13/2017	<0.001
10/11/2017	<0.001
4/4/2018	<0.001
9/20/2018	<0.001
9/26/2019	<0.001
3/25/2020	<0.001
9/24/2020	<0.001
2/9/2021	<0.001
2/8/2022	<0.001
8/31/2022	<0.001
2/9/2023	<0.001
Mean	0.0009393
Std. Dev.	0.000235
Upper Lim.	0.001
Lower Lim.	9E-05

ND substitution: RL or RL/2 if <15% NDs.

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



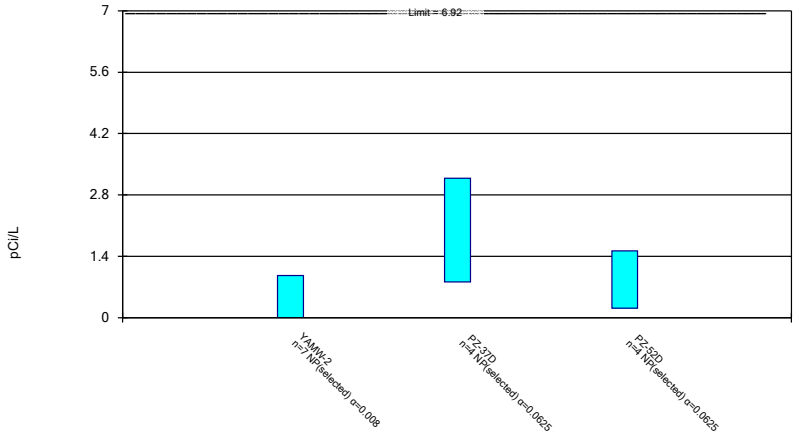
Normality testing disabled.

Constituent: Barium Analysis Run 5/16/2023 8:22 AM View: Appendix IV Nonparametric

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



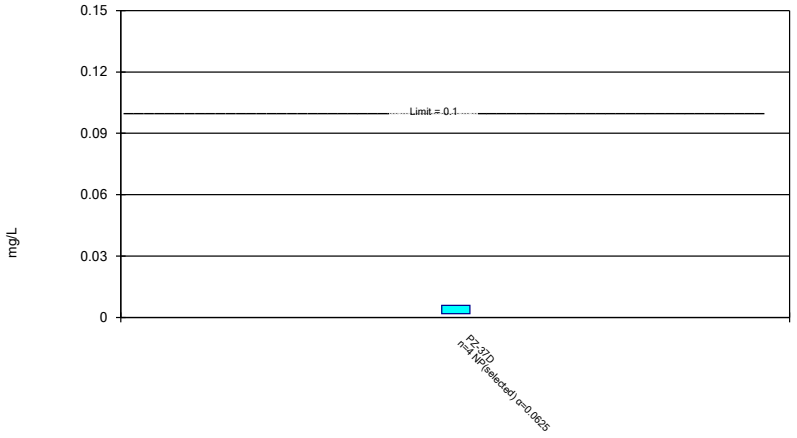
Normality testing disabled.

Constituent: Combined Radium 226 + 228 Analysis Run 5/16/2023 8:22 AM View: Appendix IV Nonparam

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Molybdenum Analysis Run 5/16/2023 8:22 AM View: Appendix IV Nonparametric

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV Nonparametric
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-37D
9/3/2021	0.015
2/11/2022	0.013
9/1/2022	0.033
2/8/2023	0.018
Mean	0.01975
Std. Dev.	0.009069
Upper Lim.	0.033
Lower Lim.	0.013

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV Nonparametric
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-2	PZ-37D	PZ-52D
9/23/2020	0.0813 (U)		
2/9/2021	0.492 (U)		
3/3/2021	0.563 (U)		
9/1/2021	0.761 (U)		
9/3/2021		3.18	
11/4/2021			0.721 (U)
2/10/2022	0 (U)		
2/11/2022		0.815 (U)	1.52
9/1/2022	0.959 (U)	2.54	0.225 (U)
2/8/2023	0.0994 (U)	2.37	0.218 (U)
Mean	0.4222	2.226	0.671
Std. Dev.	0.3711	1.003	0.613
Upper Lim.	0.959	3.18	1.52
Lower Lim.	0	0.815	0.218

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 5/16/2023 8:25 AM View: Appendix IV Nonparametric

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-37D
9/3/2021	0.0018 (J)
2/11/2022	0.0037 (J)
9/1/2022	0.0059 (J)
2/8/2023	0.0024 (J)
Mean	0.00345
Std. Dev.	0.001816
Upper Lim.	0.0059
Lower Lim.	0.0018

FIGURE I.

Appendix IV Trend Tests - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/26/2023, 11:42 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Selenium (mg/L)	**YGWA-17S (bg)**	**0**	**106**	**92**	**Yes**	**22**	**72.73**	**n/a**	**n/a**	**0.01**	**NP**
Selenium (mg/L)	**YGWC-38**	**-0.04789**	**-138**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix IV Trend Tests - All Results

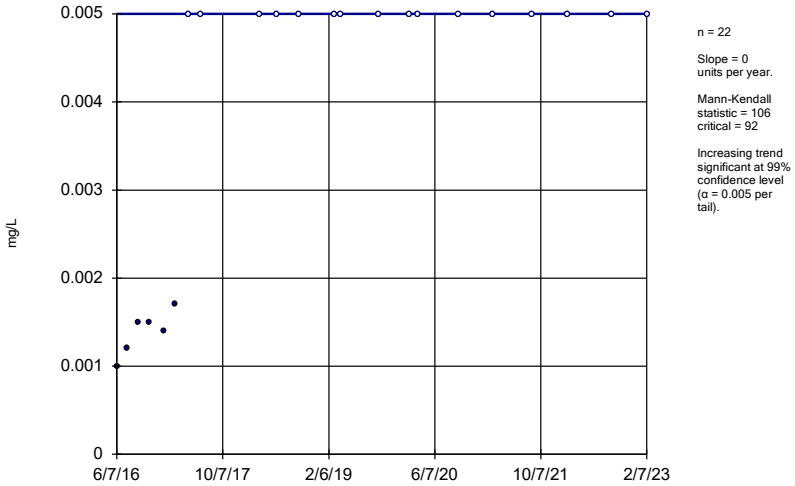
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/26/2023, 11:42 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Selenium (mg/L)	**YGWA-17S (bg)**	**0**	**106**	**92**	**Yes**	**22**	**72.73**	**n/a**	**n/a**	**0.01**	**NP**
Selenium (mg/L)	YGWA-18I (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-18S (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-20S (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-21I (bg)	0	41	98	No	23	91.3	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-39 (bg)	0	4	74	No	19	94.74	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-40 (bg)	0	-25	-74	No	19	42.11	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-4I (bg)	0	7	98	No	23	91.3	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-5D (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-5I (bg)	0	20	98	No	23	95.65	n/a	n/a	0.01	NP
Selenium (mg/L)	**YGWC-38**	**-0.04789**	**-138**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Selenium (mg/L)	YGWA-47 (bg)	0	21	48	No	14	85.71	n/a	n/a	0.01	NP
Selenium (mg/L)	GWA-2 (bg)	0	0	214	No	39	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-14S (bg)	0	54	87	No	21	71.43	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-1D (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-1I (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-2I (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-30I (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-3D (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-3I (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	PZ-37	-0.01245	-29	-53	No	15	0	n/a	n/a	0.01	NP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-17S (bg)



n = 22

Slope = 0
units per year.

Mann-Kendall
statistic = 106
critical = 92

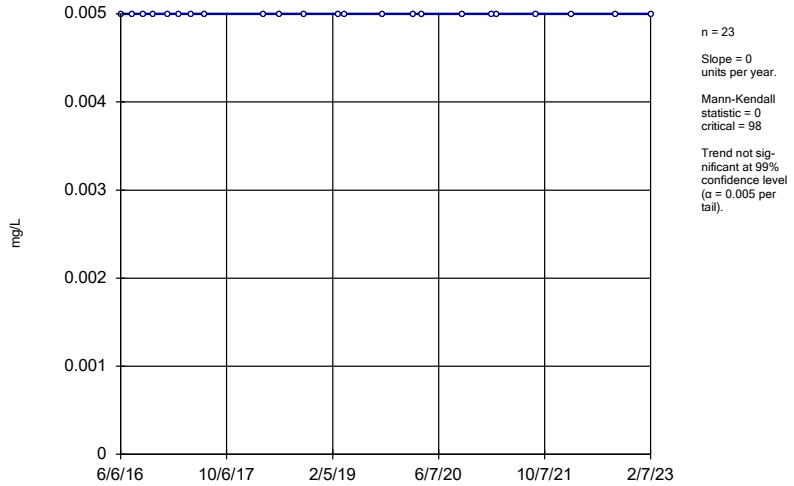
Increasing trend
significant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Selenium Analysis Run 4/26/2023 11:41 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 23

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 98

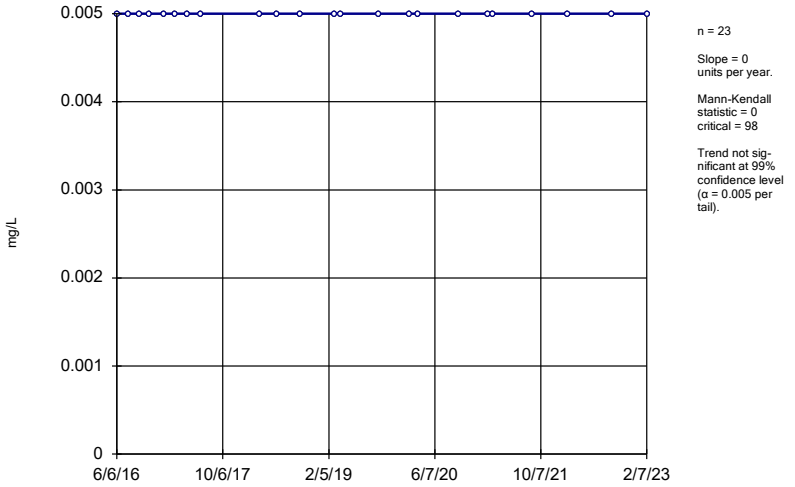
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Selenium Analysis Run 4/26/2023 11:41 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18S (bg)



n = 23

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 98

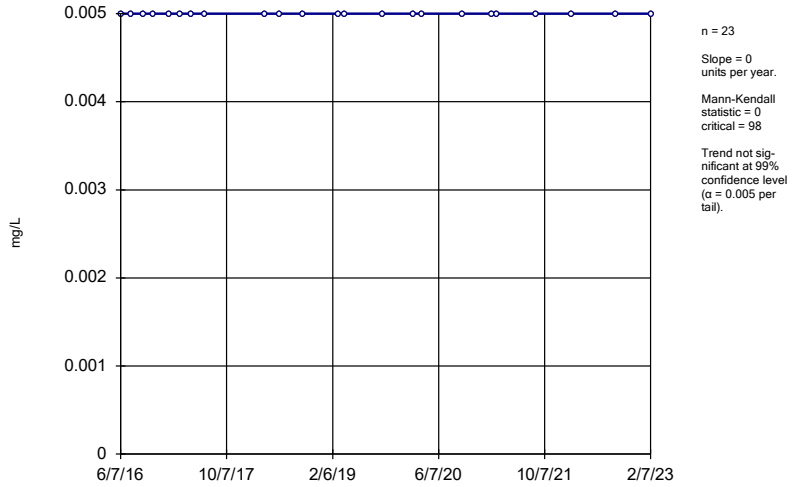
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Selenium Analysis Run 4/26/2023 11:41 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-20S (bg)



n = 23

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 98

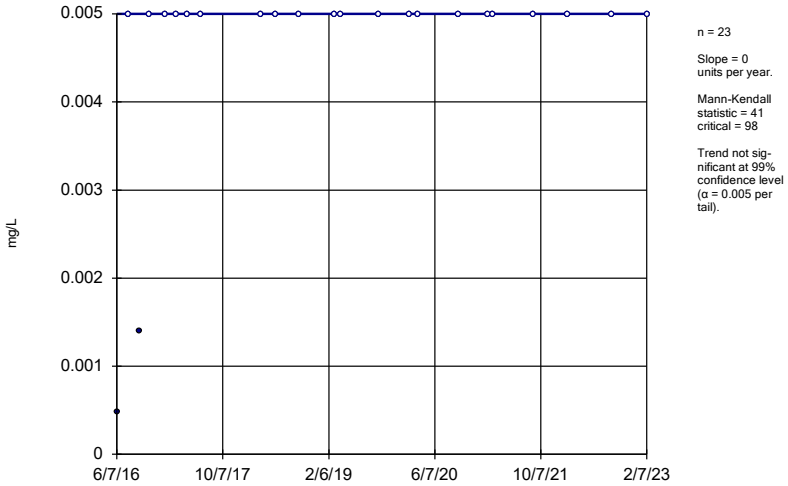
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Selenium Analysis Run 4/26/2023 11:41 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-21I (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 41
critical = 98

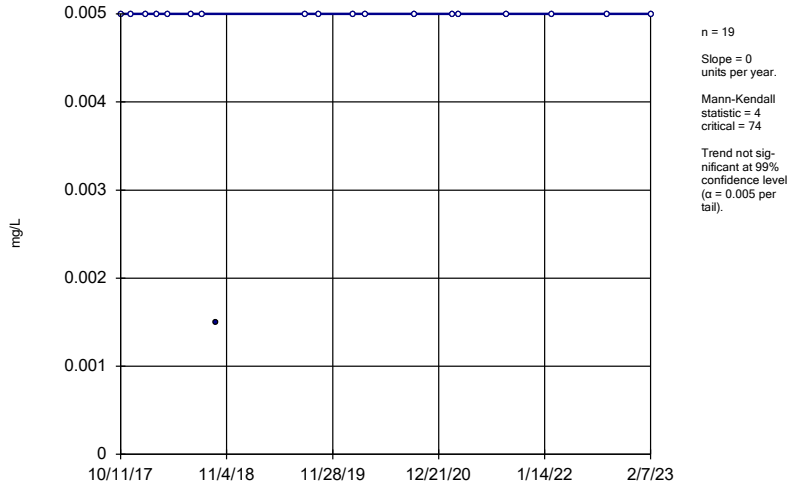
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/26/2023 11:41 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 4
critical = 74

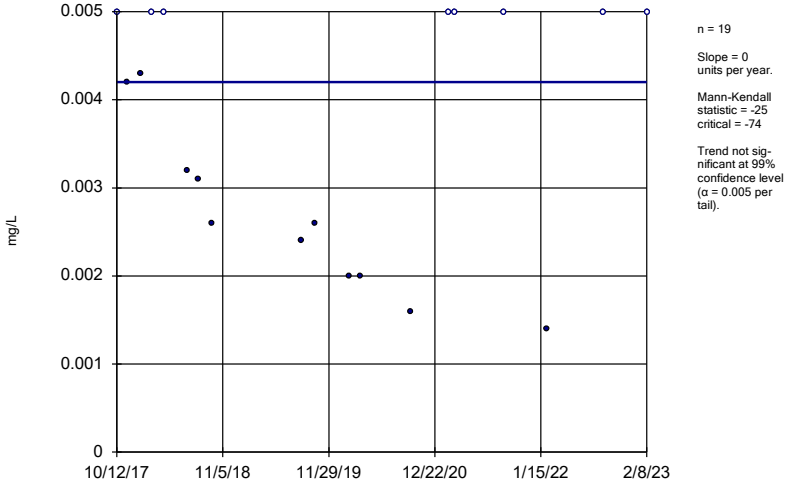
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/26/2023 11:41 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-40 (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = -25
critical = -74

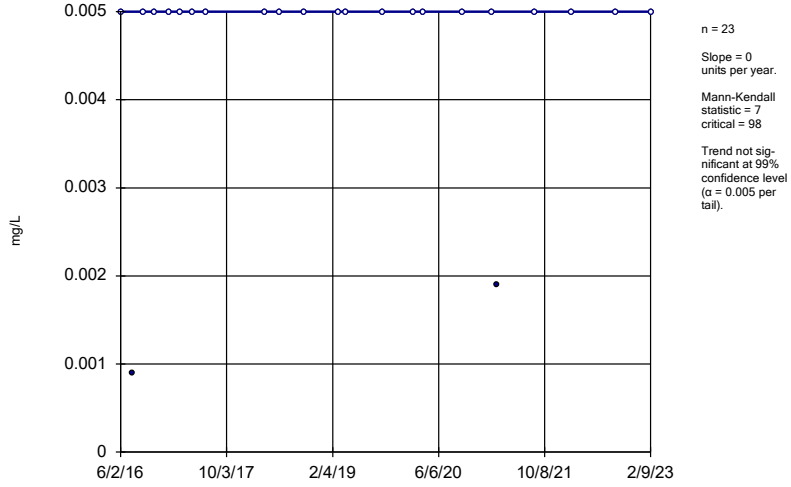
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/26/2023 11:41 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-4I (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 7
critical = 98

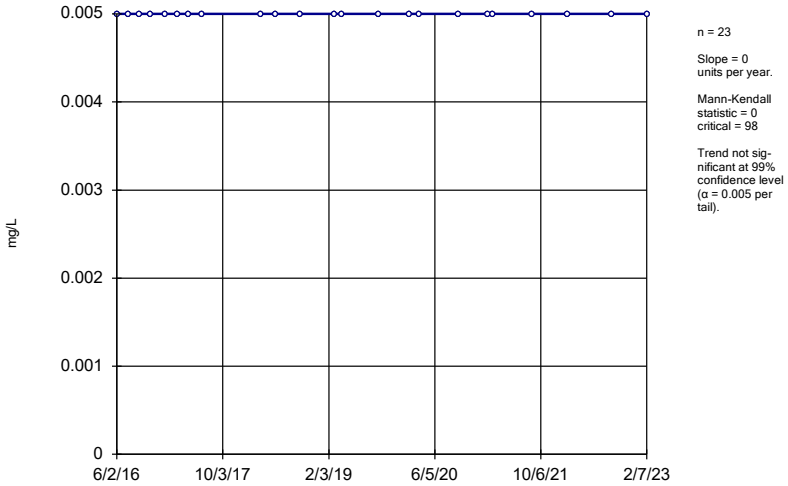
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/26/2023 11:41 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5D (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 98

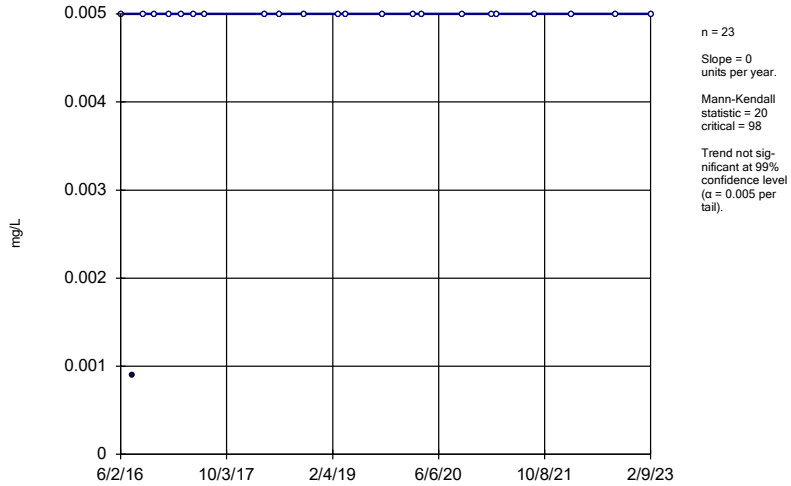
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/26/2023 11:41 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5I (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 20 critical = 98

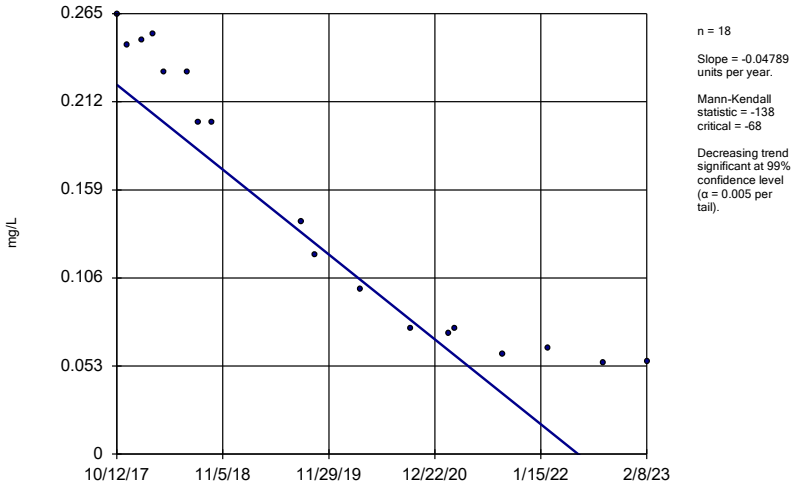
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/26/2023 11:41 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-38



n = 18

Slope = -0.04789 units per year.

Mann-Kendall statistic = -138 critical = -68

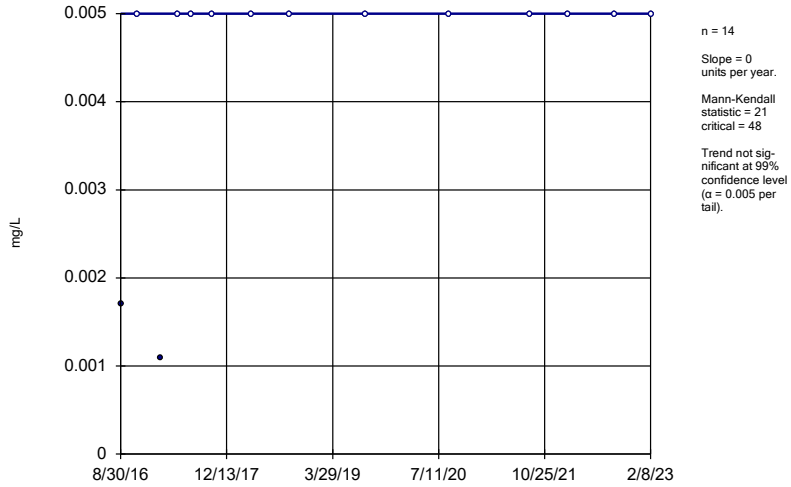
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/26/2023 11:41 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-47 (bg)



n = 14

Slope = 0 units per year.

Mann-Kendall statistic = 21 critical = 48

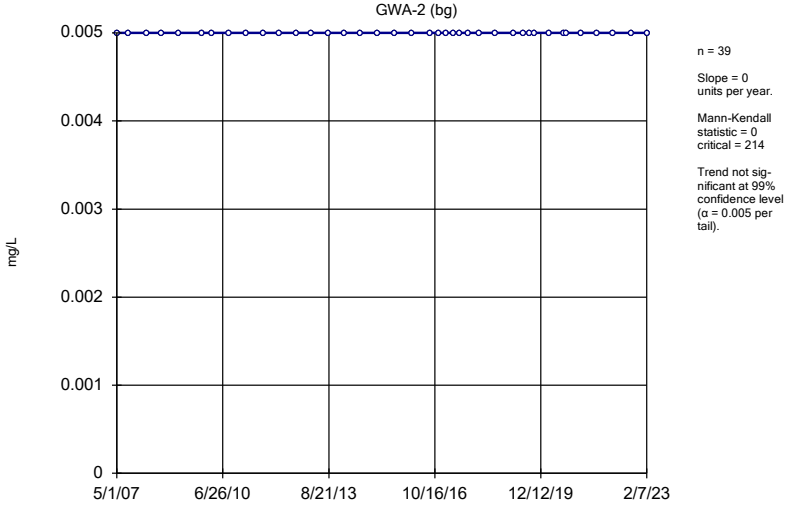
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/26/2023 11:41 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 39

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 214

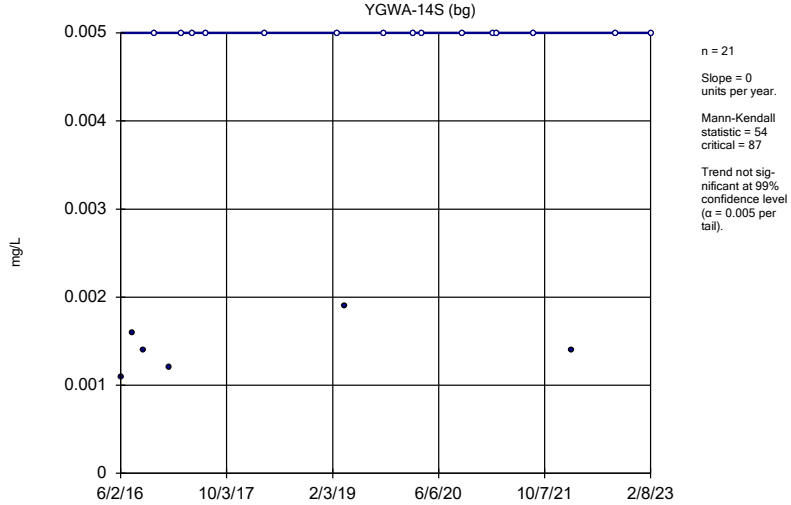
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/26/2023 11:41 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-14S (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 54
critical = 87

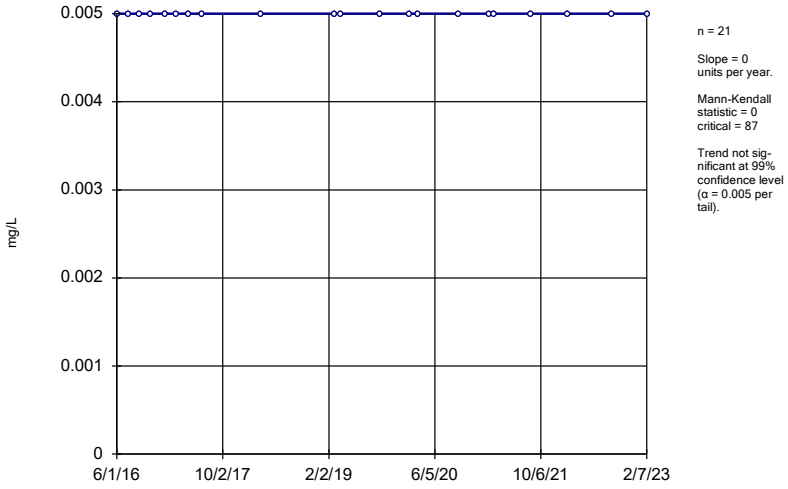
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/26/2023 11:41 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1D (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 87

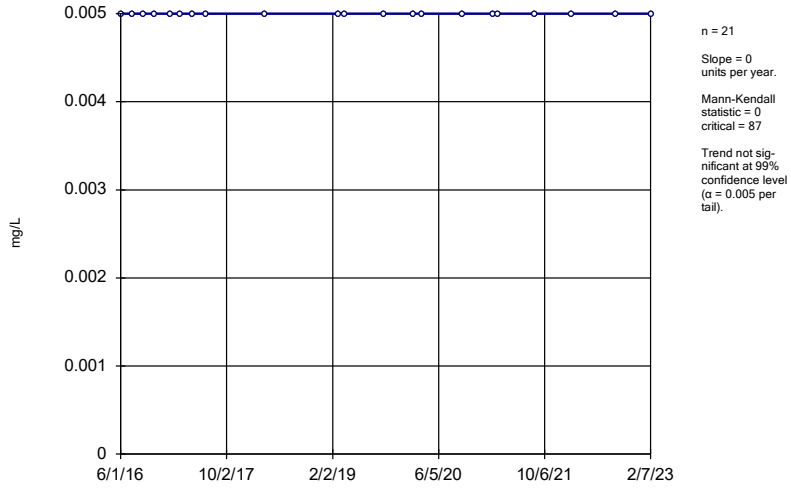
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/26/2023 11:41 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1I (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 87

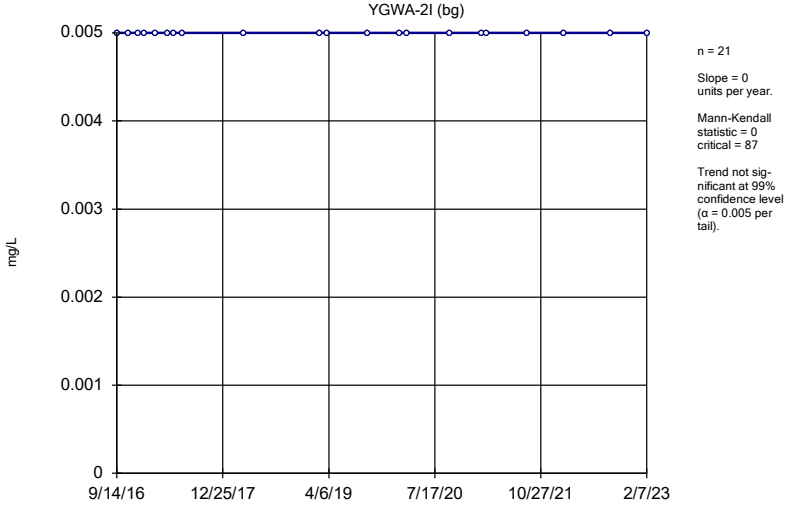
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/26/2023 11:41 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-2I (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 87

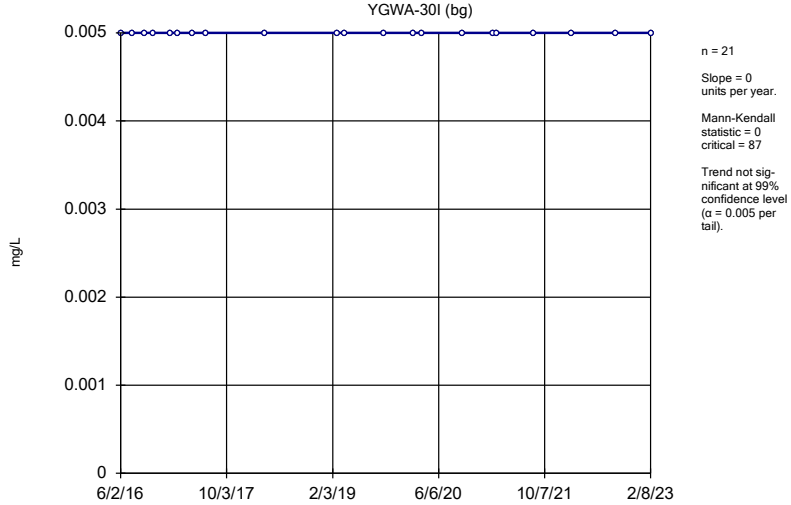
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/26/2023 11:41 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 87

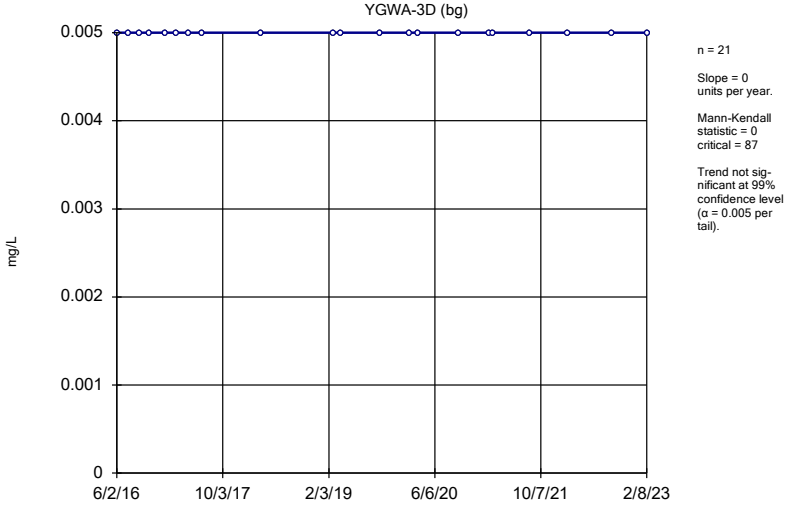
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/26/2023 11:41 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3D (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 87

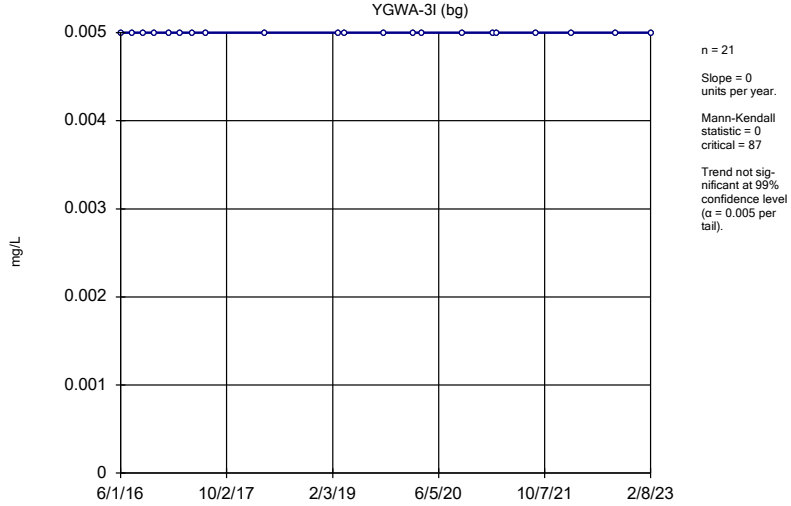
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/26/2023 11:41 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3I (bg)



n = 21

Slope = 0 units per year.

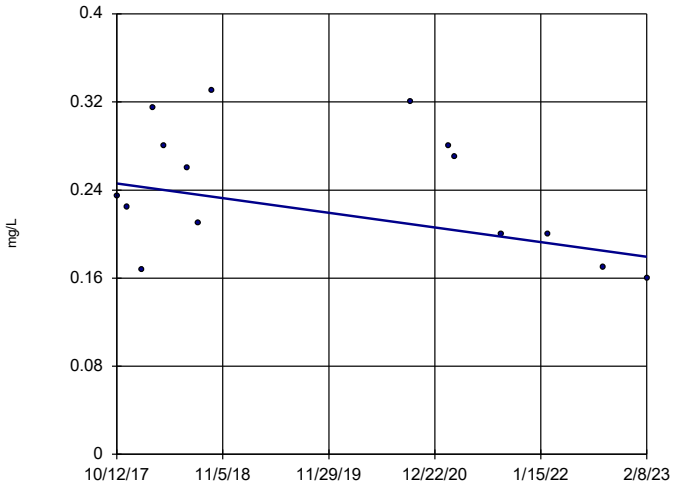
Mann-Kendall statistic = 0
critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/26/2023 11:41 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

PZ-37



n = 15

Slope = -0.01245 units per year.

Mann-Kendall statistic = -29 critical = -53

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 4/26/2023 11:41 AM View: Appendix IV Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

August 2023

GROUNDWATER STATS CONSULTING

January 31, 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
August 2023 Statistical Analysis

Dear Ms. Hartley,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the August 2023 semi-annual Groundwater Detection and Assessment Monitoring statistical analysis for Georgia Power Company's Plant Yates Ash Management Area (AMA) and R6 CCR Landfill. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10, and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling for the Appendix III parameters began in 2016, and at least 8 background samples were collected at each of the groundwater monitoring wells. Semi-annual sampling of the majority of Appendix IV constituents has been performed for several years in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations. A list of all parameters is provided below.

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:**
  - **AP-1:** YGWA-47
  - **AP-2:** YGWA-1D, YGWA-1I, YGWA-2I, YGWA-3D, YGWA-3I, YGWA-14S and, YGWA-30I
  - **Gypsum Landfill:** GWA-2
  - **AMA-R6:** YGWA-17S, YGWA-18I, YGWA-18S, YGWA-20S, YGWA-21I, YGWA-39, YGWA-40, YGWA-4I, YGWA-5D, and YGWA-5I
- **Downgradient wells:** YGWC-23S, YGWC-24SB, YGWC-36A, YGWC-38, YGWC-41, YGWC-42, YGWC-43, YGWC-49, 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. 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.

Well YGWC-24SA was installed in June 2020 as a replacement well for YGWC-24S. Note that downgradient well YGWC-24SA was abandoned and replacement well YGWC-24SB was installed in late 2022. YGWC-24SB was first sampled in February 2023. Well YGWC-36A was installed in September 2020 as a replacement well for YGWC-36 to supplement existing data for each constituent.

In the current analysis, reported observations from the August 2023 sample event for Appendix III constituents at YGWC-24SB and YGWC-36A are compared to interwell prediction limits and are treated the same as Appendix III data from the other downgradient wells. Data from wells YGWC-24, YGWC-24SA, and YGWC-24SB are plotted under YGWC-24SB and data from wells YGWC-36 and YGWC-36A are plotted under well YGWC-36A. Throughout this report, wells YGWC-24SB and YGWC-36A refer to the respective combined data from the aforementioned wells.

When a minimum of 8 samples have been collected from new wells YGWC-24SB and YGWC-36A, the Mann-Whitney test of medians will be used to evaluate whether the medians of data from both wells are statistically similar. In cases where statistically significant differences are identified at the 99% confidence level, the historical record is truncated so that only data from the new wells, which may be more representative of present-day groundwater quality, are evaluated for the Appendix IV constituents in the confidence interval comparisons to respective Groundwater Protection Standards.

All data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed 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 – August 2023

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were re-assessed for potential outliers during this analysis. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. No new values were flagged for Appendix III parameters, and a summary of flagged outliers follows this report (Figure C).

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through August 2023 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The August 2023 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When a resample confirms the initial exceedance, a statistically significant increase is identified and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the

resample falls within the statistical limit, the initial exceedance is considered to be a false positive result and, therefore, no exceedance is noted and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. A summary table of the interwell prediction limits follows this letter (Figure D). Prediction limit exceedances were noted for the following Appendix III well/constituent pairs:

- Boron: YGWC-23S, YGWC-38, YGWC-41, YGWC-42, and YGWC-43
- Calcium: YGWC-38 and YGWC-42
- Sulfate: YGWC-38 and YGWC-42
- TDS: YGWC-38, YGWC-41, YGWC-42, and YGWC-43

Trend Test Evaluation – Appendix III

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable at the 99% confidence level (Figure E). Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site. Upgradient trends are an indication of variability in groundwater unrelated to practices at the site. Both a summary and complete graphical results of the trend tests follow this report. Statistically significant trends were identified for the following well/constituent pairs:

Increasing trends

- Boron: YGWA-39 (upgradient) and YGWC-43
- Calcium: GWA-2, YGWA-1D, YGWA-5I, YGWA-17S, YGWA-21I, and YGWA-39 (all upgradient)
- Sulfate: GWA-2, YGWA-1D, YGWA-2I, YGWA-3D, YGWA-3I, and YGWA-5I (all upgradient)
- TDS: YGWA-21I (upgradient), YGWA-39 (upgradient), and YGWC-43

Decreasing

- Boron: YGWA-40 (upgradient), YGWC-38, YGWC-41, and YGWC-42
- Calcium: YGWA-1I (upgradient), YGWA-5D (upgradient), YGWA-18S (upgradient), YGWA-47 (upgradient), YGWC-38, and YGWC-42
- Sulfate: YGWA-5D (upgradient), YGWA-18I (upgradient), YGWA-39 (upgradient), YGWA-40 (upgradient), YGWA-47 (upgradient), YGWC-38, and YGWC-42
- TDS: YGWA-47 (upgradient), YGWC-38, YGWC-41, and YGWC-42

Statistical Analysis of Appendix IV Parameters – August 2023

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 natural variation in groundwater quality, the values will be re-evaluated for construction of interwell prediction limits. No additional values were flagged as outliers and a summary of flagged outliers follows this report (Figure C).

Mann-Whitney Test of Medians

During this 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, when available, for each Appendix IV parameter (Figure F). 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 August 2023 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 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 tolerance limits and the confidence intervals, either parametric or nonparametric, depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the appropriate order statistics, depending on the sample size, as interval limits, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The lower confidence limit, which is constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS prepared as described above. The

achievable confidence level associated with nonparametric confidence intervals is dependent upon the number samples available.

Due to the sample size for some well/constituent pairs (beryllium at YAMW-3, cobalt at YAMW-3 and PZ-51, combined radium at YAMW-3 and PZ-52D, molybdenum at PZ-52D, and selenium at PZ-52D), the parametric lower confidence limit resulted in a negative number. Therefore, nonparametric confidence intervals were constructed for these well/constituent pairs and may be found at the end of Figure H. This is a more conservative approach in that the lower confidence limit reflects the lowest measurement in the data set for a given well rather than a negative number.

Only when the entire confidence interval is above a GWPS is the 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
- Selenium: PZ-37 and YGWC-38

Trend Test Evaluation – Appendix IV

Assessment monitoring well/constituent pairs identified with confidence interval exceedances (which evaluate the average concentration of a group of measurements) 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 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
- Selenium: YGWA-17S (upgradient)

Decreasing trends
- Cobalt: YGWA-30I, YGWA-39, and YGWA-47 (all upgradient)
- Selenium: YGWC-38

Note that for selenium at upgradient well YGWA-17S, a statistically significant increasing trend was identified. The slope, however, is zero at this well which represents the median slope of all the possible pairwise slopes of the data evaluated.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Yates Ash Management Area (AMA) and R6 CCR Landfill. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

Andrew T. Collins
Project Manager

Kristina L. Rayner
Senior Statistician

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100% Non-Detects: Appendix IV Downgradient & Assessment

Analysis Run 10/18/2023 9:14 AM 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, PZ-37D

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

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Date Ranges

Date: 10/18/2023 9:08 AM

Plant Yates Data: Plant Yates AMA-R6

Cadmium (mg/L)

YGWC-36A overall:10/7/2020-8/16/2023

Lithium (mg/L)

YGWC-36A overall:10/7/2020-8/16/2023

Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 10/20/2023, 11:07 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	YGWC-23S	0.16	n/a	8/16/2023	1.2	Yes	388	n/a	n/a	51.03	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-38	0.16	n/a	8/16/2023	3.7	Yes	388	n/a	n/a	51.03	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-41	0.16	n/a	8/16/2023	3.1	Yes	388	n/a	n/a	51.03	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-42	0.16	n/a	8/16/2023	7.1	Yes	388	n/a	n/a	51.03	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-43	0.16	n/a	8/16/2023	2.8	Yes	388	n/a	n/a	51.03	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Calcium (mg/L)	YGWC-38	37	n/a	8/16/2023	50.9	Yes	388	n/a	n/a	0.7732	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-42	37	n/a	8/16/2023	69.2	Yes	388	n/a	n/a	0.7732	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-38	160	n/a	8/16/2023	227	Yes	388	n/a	n/a	5.928	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-42	160	n/a	8/16/2023	451	Yes	388	n/a	n/a	5.928	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-38	235.4	n/a	8/16/2023	460	Yes	388	4.653	0.8034	0.5155	None	x^(1/3)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-41	235.4	n/a	8/16/2023	266	Yes	388	4.653	0.8034	0.5155	None	x^(1/3)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-42	235.4	n/a	8/16/2023	904	Yes	388	4.653	0.8034	0.5155	None	x^(1/3)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-43	235.4	n/a	8/16/2023	356	Yes	388	4.653	0.8034	0.5155	None	x^(1/3)	0.0009403	Param Inter 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 10/20/2023, 11:07 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**YGWC-23S**	**0.16**	**n/a**	**8/16/2023**	**1.2**	**Yes**	**388**	**n/a**	**n/a**	**51.03**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-38**	**0.16**	**n/a**	**8/16/2023**	**3.7**	**Yes**	**388**	**n/a**	**n/a**	**51.03**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-41**	**0.16**	**n/a**	**8/16/2023**	**3.1**	**Yes**	**388**	**n/a**	**n/a**	**51.03**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-42**	**0.16**	**n/a**	**8/16/2023**	**7.1**	**Yes**	**388**	**n/a**	**n/a**	**51.03**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-43**	**0.16**	**n/a**	**8/16/2023**	**2.8**	**Yes**	**388**	**n/a**	**n/a**	**51.03**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	YGWC-49	0.16	n/a	8/16/2023	0.012J	No	388	n/a	n/a	51.03	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-36A	0.16	n/a	8/16/2023	0.058	No	388	n/a	n/a	51.03	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-24SB	0.16	n/a	8/16/2023	0.04ND	No	388	n/a	n/a	51.03	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Calcium (mg/L)	YGWC-23S	37	n/a	8/16/2023	11.2	No	388	n/a	n/a	0.7732	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	**YGWC-38**	**37**	**n/a**	**8/16/2023**	**50.9**	**Yes**	**388**	**n/a**	**n/a**	**0.7732**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	YGWC-41	37	n/a	8/16/2023	13.5	No	388	n/a	n/a	0.7732	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	**YGWC-42**	**37**	**n/a**	**8/16/2023**	**69.2**	**Yes**	**388**	**n/a**	**n/a**	**0.7732**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	YGWC-43	37	n/a	8/16/2023	10.7	No	388	n/a	n/a	0.7732	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-49	37	n/a	8/16/2023	11.1	No	388	n/a	n/a	0.7732	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-36A	37	n/a	8/16/2023	20	No	388	n/a	n/a	0.7732	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-24SB	37	n/a	8/16/2023	2.2	No	388	n/a	n/a	0.7732	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-23S	12	n/a	8/16/2023	2.7	No	388	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-38	12	n/a	8/16/2023	3.7	No	388	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-41	12	n/a	8/16/2023	3.7	No	388	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-42	12	n/a	8/16/2023	2.8	No	388	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-43	12	n/a	8/16/2023	2.3	No	388	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-49	12	n/a	8/16/2023	3.8	No	388	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-36A	12	n/a	8/16/2023	4.9	No	388	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-24SB	12	n/a	8/16/2023	8.1	No	388	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	8/16/2023	0.1ND	No	457	n/a	n/a	64.33	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-38	0.68	n/a	8/16/2023	0.1ND	No	457	n/a	n/a	64.33	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-41	0.68	n/a	8/16/2023	0.1ND	No	457	n/a	n/a	64.33	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-42	0.68	n/a	8/16/2023	0.1ND	No	457	n/a	n/a	64.33	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-43	0.68	n/a	8/16/2023	0.062J	No	457	n/a	n/a	64.33	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-49	0.68	n/a	8/16/2023	0.1ND	No	457	n/a	n/a	64.33	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-36A	0.68	n/a	8/16/2023	0.1ND	No	457	n/a	n/a	64.33	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-24SB	0.68	n/a	8/16/2023	0.1ND	No	457	n/a	n/a	64.33	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
pH (S.U.)	YGWC-23S	8.39	4.4	8/16/2023	5.36	No	467	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	8/16/2023	4.83	No	467	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	8/16/2023	5.01	No	467	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	8/16/2023	5.53	No	467	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	8/16/2023	5.58	No	467	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	8/16/2023	5.04	No	467	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	8/16/2023	5.36	No	467	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	8/16/2023	5.89	No	467	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	8/16/2023	69.3	No	388	n/a	n/a	5.928	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**YGWC-38**	**160**	**n/a**	**8/16/2023**	**227**	**Yes**	**388**	**n/a**	**n/a**	**5.928**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	YGWC-41	160	n/a	8/16/2023	104	No	388	n/a	n/a	5.928	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**YGWC-42**	**160**	**n/a**	**8/16/2023**	**451**	**Yes**	**388**	**n/a**	**n/a**	**5.928**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	YGWC-43	160	n/a	8/16/2023	151	No	388	n/a	n/a	5.928	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-49	160	n/a	8/16/2023	63.8	No	388	n/a	n/a	5.928	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-36A	160	n/a	8/16/2023	93.9	No	388	n/a	n/a	5.928	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-24SB	160	n/a	8/16/2023	0.5ND	No	388	n/a	n/a	5.928	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-23S	235.4	n/a	8/16/2023	170	No	388	4.653	0.8034	0.5155	None	x^(1/3)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	**YGWC-38**	**235.4**	**n/a**	**8/16/2023**	**460**	**Yes**	**388**	**4.653**	**0.8034**	**0.5155**	**None**	**x^(1/3)**	**0.0009403**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**YGWC-41**	**235.4**	**n/a**	**8/16/2023**	**266**	**Yes**	**388**	**4.653**	**0.8034**	**0.5155**	**None**	**x^(1/3)**	**0.0009403**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**YGWC-42**	**235.4**	**n/a**	**8/16/2023**	**904**	**Yes**	**388**	**4.653**	**0.8034**	**0.5155**	**None**	**x^(1/3)**	**0.0009403**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**YGWC-43**	**235.4**	**n/a**	**8/16/2023**	**356**	**Yes**	**388**	**4.653**	**0.8034**	**0.5155**	**None**	**x^(1/3)**	**0.0009403**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	YGWC-49	235.4	n/a	8/16/2023	159	No	388	4.653	0.8034	0.5155	None	x^(1/3)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-36A	235.4	n/a	8/16/2023	234	No	388	4.653	0.8034	0.5155	None	x^(1/3)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-24SB	235.4	n/a	8/16/2023	68	No	388	4.653	0.8034	0.5155	None	x^(1/3)	0.0009403	Param Inter 1 of 2

Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Yates Data: Plant Yates AMA-R6 Printed 10/18/2023, 8:52 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	YGWA-39 (bg)	0.02058	92	68	Yes	18	5.556	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)	-0.01353	-106	-68	Yes	18	0	n/a	0.01	NP
Boron (mg/L)	YGWC-38	-3.39	-131	-68	Yes	18	0	n/a	0.01	NP
Boron (mg/L)	YGWC-41	-2.039	-113	-68	Yes	18	0	n/a	0.01	NP
Boron (mg/L)	YGWC-42	-1.582	-104	-68	Yes	18	0	n/a	0.01	NP
Boron (mg/L)	YGWC-43	0.4048	99	68	Yes	18	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.134	143	87	Yes	21	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.0757	-147	-87	Yes	21	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-21I (bg)	0.6806	92	87	Yes	21	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-39 (bg)	2.124	86	68	Yes	18	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-1.349	-113	-87	Yes	21	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-5I (bg)	0.06491	106	87	Yes	21	0	n/a	0.01	NP
Calcium (mg/L)	YGWC-38	-26.92	-139	-68	Yes	18	0	n/a	0.01	NP
Calcium (mg/L)	YGWC-42	-10.82	-113	-68	Yes	18	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-1.099	-122	-68	Yes	18	5.556	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	2.437	87	74	Yes	19	5.263	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.4931	94	87	Yes	21	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.08927	-112	-87	Yes	21	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18I (bg)	-0.1191	-112	-87	Yes	21	19.05	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-2.62	-107	-68	Yes	18	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-7.156	-120	-68	Yes	18	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-2.402	-162	-87	Yes	21	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.08787	138	87	Yes	21	0	n/a	0.01	NP
Sulfate (mg/L)	YGWC-38	-134.8	-142	-68	Yes	18	0	n/a	0.01	NP
Sulfate (mg/L)	YGWC-42	-95.74	-118	-68	Yes	18	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-13.93	-138	-68	Yes	18	0	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)	12.89	88	74	Yes	19	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	0.8971	154	87	Yes	21	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-2I (bg)	1.209	91	87	Yes	21	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.2566	105	87	Yes	21	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3I (bg)	1.155	119	87	Yes	21	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-21I (bg)	9.895	91	87	Yes	21	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-39 (bg)	27.52	85	68	Yes	18	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-38	-176.1	-117	-68	Yes	18	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-41	-97.21	-113	-68	Yes	18	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-42	-128.1	-111	-68	Yes	18	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-43	39.67	83	68	Yes	18	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-47 (bg)	-12.84	-95	-68	Yes	18	0	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limit Exceedances - All Results

Plant Yates Data: Plant Yates AMA-R6 Printed 10/18/2023, 8:52 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	YGWA-17S (bg)	0.0004386	55	87	No	21	14.29	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-14	-87	No	21	80.95	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	0.0006414	54	87	No	21	28.57	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-5	-87	No	21	90.48	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	0	-28	-87	No	21	57.14	n/a	0.01	NP
Boron (mg/L)	**YGWA-39 (bg)**	**0.02058**	**92**	**68**	**Yes**	**18**	**5.556**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWA-40 (bg)**	**-0.01353**	**-106**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-4I (bg)	0	13	87	No	21	71.43	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0006284	65	87	No	21	19.05	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	0	-11	-87	No	21	66.67	n/a	0.01	NP
Boron (mg/L)	YGWC-23S	0.01435	17	87	No	21	0	n/a	0.01	NP
Boron (mg/L)	**YGWC-38**	**-3.39**	**-131**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-41**	**-2.039**	**-113**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-42**	**-1.582**	**-104**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-43**	**0.4048**	**99**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-47 (bg)	-0.0005874	-51	-68	No	18	5.556	n/a	0.01	NP
Boron (mg/L)	GWA-2 (bg)	0	35	74	No	19	68.42	n/a	0.01	NP
Boron (mg/L)	YGWA-14S (bg)	-0.0004045	-54	-87	No	21	9.524	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0.001652	58	87	No	21	42.86	n/a	0.01	NP
Boron (mg/L)	YGWA-1I (bg)	0	-13	-87	No	21	71.43	n/a	0.01	NP
Boron (mg/L)	YGWA-2I (bg)	0	2	87	No	21	80.95	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-13	-87	No	21	85.71	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	16	87	No	21	61.9	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	-13	-87	No	21	90.48	n/a	0.01	NP
Calcium (mg/L)	**YGWA-17S (bg)**	**0.134**	**143**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-18I (bg)	0.05034	39	87	No	21	0	n/a	0.01	NP
Calcium (mg/L)	**YGWA-18S (bg)**	**-0.0757**	**-147**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-20S (bg)	0.02165	43	87	No	21	0	n/a	0.01	NP
Calcium (mg/L)	**YGWA-21I (bg)**	**0.6806**	**92**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-39 (bg)**	**2.124**	**86**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-40 (bg)	-0.3452	-49	-68	No	18	5.556	n/a	0.01	NP
Calcium (mg/L)	YGWA-4I (bg)	0.02012	12	87	No	21	0	n/a	0.01	NP
Calcium (mg/L)	**YGWA-5D (bg)**	**-1.349**	**-113**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-5I (bg)**	**0.06491**	**106**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWC-38**	**-26.92**	**-139**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWC-42**	**-10.82**	**-113**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-47 (bg)**	**-1.099**	**-122**	**-68**	**Yes**	**18**	**5.556**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GWA-2 (bg)**	**2.437**	**87**	**74**	**Yes**	**19**	**5.263**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-14S (bg)	0	18	87	No	21	0	n/a	0.01	NP
Calcium (mg/L)	**YGWA-1D (bg)**	**0.4931**	**94**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-1I (bg)**	**-0.08927**	**-112**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-2I (bg)	0	1	87	No	21	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-30I (bg)	0.02343	63	87	No	21	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-3D (bg)	0.2668	48	87	No	21	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-3I (bg)	0.5543	85	87	No	21	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-17S (bg)	0	5	87	No	21	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-18I (bg)**	**-0.1191**	**-112**	**-87**	**Yes**	**21**	**19.05**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-18S (bg)	-0.112	-71	-87	No	21	9.524	n/a	0.01	NP
Sulfate (mg/L)	YGWA-20S (bg)	0	54	87	No	21	71.43	n/a	0.01	NP
Sulfate (mg/L)	YGWA-21I (bg)	-0.1972	-61	-87	No	21	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-39 (bg)**	**-2.62**	**-107**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-40 (bg)**	**-7.156**	**-120**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-4I (bg)	0.0251	16	87	No	21	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-5D (bg)**	**-2.402**	**-162**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-5I (bg)**	**0.08787**	**138**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests - Prediction Limit Exceedances - All Results

Plant Yates Data: Plant Yates AMA-R6 Printed 10/18/2023, 8:52 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Sulfate (mg/L)	**YGWC-38**	**-134.8**	**-142**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWC-42**	**-95.74**	**-118**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-47 (bg)**	**-13.93**	**-138**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GWA-2 (bg)**	**12.89**	**88**	**74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-14S (bg)	-0.04669	-29	-87	No	21	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-1D (bg)**	**0.8971**	**154**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-1I (bg)	-0.06392	-13	-87	No	21	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-2I (bg)**	**1.209**	**91**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-30I (bg)	-0.03548	-33	-87	No	21	9.524	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-3D (bg)**	**0.2566**	**105**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-3I (bg)**	**1.155**	**119**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	YGWA-17S (bg)	2.283	46	87	No	21	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18I (bg)	-1.363	-33	-87	No	21	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18S (bg)	1.344	26	87	No	21	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-20S (bg)	2.575	48	87	No	21	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**YGWA-21I (bg)**	**9.895**	**91**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWA-39 (bg)**	**27.52**	**85**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	YGWA-40 (bg)	-6.016	-59	-68	No	18	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-4I (bg)	0.6864	14	87	No	21	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)	-0.77	-20	-87	No	21	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**YGWC-38**	**-176.1**	**-117**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWC-41**	**-97.21**	**-113**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWC-42**	**-128.1**	**-111**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWC-43**	**39.67**	**83**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWA-47 (bg)**	**-12.84**	**-95**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	GWA-2 (bg)	14.49	72	74	No	19	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-14S (bg)	0.8282	30	87	No	21	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-1D (bg)	2.147	46	87	No	21	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-1I (bg)	-0.3083	-7	-87	No	21	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-2I (bg)	-0.5892	-11	-87	No	21	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-30I (bg)	1.322	26	87	No	21	9.524	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3D (bg)	1.819	27	87	No	21	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3I (bg)	1.056	15	87	No	21	0	n/a	0.01	NP

Welch's t-test/Mann-Whitney - Significant Results

Plant Yates Data: Plant Yates AMA-R6 Printed 10/18/2023, 9:01 AM

Constituent	Well	Calc.	0.01	Alpha	Sig.	Method
Cadmium (mg/L)	**YGWC-36A**	**2.646**	**Yes**	**0.01**	**Yes**	**Mann-W**
Lithium (mg/L)	**YGWC-36A**	**-2.939**	**Yes**	**0.01**	**Yes**	**Mann-W**

Welch's t-test/Mann-Whitney - All Results

Plant Yates Data: Plant Yates AMA-R6 Printed 10/18/2023, 9:01 AM

Constituent	Well	Calc.	0.01	Alpha	Sig.	Method
Antimony (mg/L)	YGWC-36A	0.1956	No	0.01	No	Mann-W
Arsenic (mg/L)	YGWC-36A	-0.5433	No	0.01	No	Mann-W
Barium (mg/L)	YGWC-36A	0.8071	No	0.01	No	Mann-W
Beryllium (mg/L)	YGWC-36A	1.233	No	0.01	No	Mann-W
Cadmium (mg/L)	**YGWC-36A**	**2.646**	**Yes**	**0.01**	**Yes**	**Mann-W**
Chromium (mg/L)	YGWC-36A	-0.4052	No	0.01	No	Mann-W
Cobalt (mg/L)	YGWC-36A	-0.2683	No	0.01	No	Mann-W
Combined Radium 226 + 228 (pCi/L)	YGWC-36A	-2.098	No	0.01	No	Mann-W
Fluoride (mg/L)	YGWC-36A	1.487	No	0.01	No	Mann-W
Lead (mg/L)	YGWC-36A	2.033	No	0.01	No	Mann-W
Lithium (mg/L)	**YGWC-36A**	**-2.939**	**Yes**	**0.01**	**Yes**	**Mann-W**
Molybdenum (mg/L)	YGWC-36A	1.251	No	0.01	No	Mann-W
Selenium (mg/L)	YGWC-36A	2.565	No	0.01	No	Mann-W

Upper Tolerance Limits Summary Table

Plant Yates Data: Plant Yates AMA-R6 Printed 10/18/2023, 9:11 AM

Constituent	Upper Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.0047	n/a	n/a	n/a	410	88.54	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	0.005	n/a	n/a	n/a	458	75.76	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	0.21	n/a	n/a	n/a	458	2.402	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	0.0011	n/a	n/a	n/a	442	79.86	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	0.00063	n/a	n/a	n/a	442	94.8	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	0.0093	n/a	n/a	n/a	410	80.73	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	0.035	n/a	n/a	n/a	452	69.03	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	6.92	n/a	n/a	n/a	437	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	0.68	n/a	n/a	n/a	457	64.33	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	0.0013	n/a	n/a	n/a	412	86.65	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	0.03	n/a	n/a	n/a	437	26.77	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	0.00064	n/a	n/a	n/a	366	89.07	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	0.014	n/a	n/a	n/a	401	61.1	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	0.005	n/a	n/a	n/a	440	92.73	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	n/a	n/a	376	97.34	n/a	n/a	NaN	NP Inter(NDs)

YATES AMA-R6 GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.0047	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.21	2
Beryllium, Total (mg/L)	0.004		0.0011	0.004
Cadmium, Total (mg/L)	0.005		0.00063	0.005
Chromium, Total (mg/L)	0.1		0.0093	0.1
Cobalt, Total (mg/L)		0.006	0.035	0.035
Combined Radium, Total (pCi/L)	5		6.92	6.92
Fluoride, Total (mg/L)	4		0.68	4
Lead, Total (mg/L)		0.015	0.0013	0.015
Lithium, Total (mg/L)		0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.00064	0.002
Molybdenum, Total (mg/L)		0.1	0.014	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**Grey cell indicates Background Limit is higher than MCL or CCR Rule Specified Level*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residual*

**GWPS = Groundwater Protection Standard*

Appendix IV Confidence Intervals - Significant Results

Plant Yates Data: Plant Yates AMA-R6 Printed 10/18/2023, 9:30 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	**YAMW-3**	**0.16**	**0.058**	**0.035**	**Yes**	**4**	**0**	**None**	**No**	**0.0625**	**NP (selected)**
Selenium (mg/L)	**PZ-37**	**0.2745**	**0.197**	**0.05**	**Yes**	**16**	**0**	**None**	**No**	**0.01**	**Param.**
Selenium (mg/L)	**YGWC-38**	**0.246**	**0.06**	**0.05**	**Yes**	**19**	**0**	**None**	**No**	**0.01**	**NP (normality)**

Appendix IV Confidence Intervals - All Results

Plant Yates Data: Plant Yates AMA-R6 Printed 10/18/2023, 9:30 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	PZ-35	0.003	0.003	0.006	No	10	90	None	No	0.011	NP (NDs)
Antimony (mg/L)	PZ-37	0.003	0.0014	0.006	No	16	81.25	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-37D	0.003	0.0015	0.006	No	5	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	YAMW-1	0.003	0.0016	0.006	No	10	60	None	No	0.011	NP (NDs)
Antimony (mg/L)	YAMW-4	0.003	0.00062	0.006	No	8	62.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	YAMW-5	0.003	0.00033	0.006	No	8	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	YGWC-23S	0.003	0.00085	0.006	No	21	85.71	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-24SB	0.003	0.0009	0.006	No	20	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-36A	0.0041	0.0015	0.006	No	21	52.38	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-38	0.003	0.0015	0.006	No	18	77.78	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-41	0.003	0.0014	0.006	No	18	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-42	0.003	0.00053	0.006	No	18	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-43	0.003	0.0026	0.006	No	18	88.89	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-49	0.003	0.0011	0.006	No	18	88.89	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-35	0.005	0.00096	0.01	No	11	63.64	None	No	0.006	NP (NDs)
Arsenic (mg/L)	PZ-37	0.005	0.00094	0.01	No	16	43.75	None	No	0.01	NP (normality)
Arsenic (mg/L)	PZ-51	0.005	0.0013	0.01	No	4	75	Kaplan-Meier	No	0.0625	NP (NDs)
Arsenic (mg/L)	PZ-52D	0.004343	0.0002567	0.01	No	4	50	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	YAMW-1	0.005	0.0034	0.01	No	11	81.82	None	No	0.006	NP (NDs)
Arsenic (mg/L)	YAMW-3	0.005	0.0038	0.01	No	4	75	None	No	0.0625	NP (NDs)
Arsenic (mg/L)	YAMW-4	0.005	0.00079	0.01	No	8	50	None	No	0.004	NP (normality)
Arsenic (mg/L)	YAMW-5	0.005	0.00095	0.01	No	8	50	None	No	0.004	NP (normality)
Arsenic (mg/L)	YGWC-23S	0.005	0.0025	0.01	No	23	91.3	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-24SB	0.005	0.0035	0.01	No	22	86.36	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-36A	0.005	0.0047	0.01	No	23	73.91	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-38	0.005	0.00072	0.01	No	19	26.32	None	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-41	0.005	0.00072	0.01	No	19	52.63	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-42	0.00228	0.001457	0.01	No	19	21.05	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	YGWC-43	0.005	0.0022	0.01	No	19	73.68	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-49	0.005	0.001	0.01	No	18	83.33	Kaplan-Meier	No	0.01	NP (NDs)
Barium (mg/L)	PZ-35	0.1054	0.03557	2	No	11	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	PZ-37	0.05128	0.03299	2	No	16	0	None	No	0.01	Param.
Barium (mg/L)	PZ-37D	0.03319	0.006806	2	No	5	0	None	No	0.01	Param.
Barium (mg/L)	PZ-51	0.01863	0.01087	2	No	4	0	None	No	0.01	Param.
Barium (mg/L)	PZ-52D	0.0426	0.002652	2	No	4	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	YAMW-1	0.07885	0.03952	2	No	11	0	None	No	0.01	Param.
Barium (mg/L)	YAMW-2	0.009293	0.007032	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	YAMW-3	0.05591	0.01059	2	No	4	0	None	No	0.01	Param.
Barium (mg/L)	YAMW-4	0.021	0.003	2	No	8	0	None	No	0.004	NP (normality)
Barium (mg/L)	YAMW-5	0.057	0.034	2	No	8	0	None	No	0.004	NP (normality)
Barium (mg/L)	YGWC-23S	0.04754	0.03351	2	No	23	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-24SB	0.025	0.019	2	No	22	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-36A	0.0484	0.0349	2	No	23	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-38	0.02175	0.01691	2	No	19	0	None	ln(x)	0.01	Param.
Barium (mg/L)	YGWC-41	0.02773	0.02029	2	No	19	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-42	0.04124	0.02866	2	No	19	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	YGWC-43	0.0332	0.01963	2	No	19	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-49	0.07665	0.06658	2	No	18	0	None	No	0.01	Param.
Beryllium (mg/L)	PZ-35	0.0006805	0.0002988	0.004	No	12	16.67	Kaplan-Meier	No	0.01	Param.
Beryllium (mg/L)	PZ-37	0.001	0.00025	0.004	No	16	12.5	None	No	0.01	NP (normality)
Beryllium (mg/L)	PZ-51	0.003789	0.002011	0.004	No	4	0	None	No	0.01	Param.
Beryllium (mg/L)	PZ-52D	0.0001093	0.00004644	0.004	No	4	50	Kaplan-Meier	ln(x)	0.01	Param.
Beryllium (mg/L)	YAMW-1	0.0002411	0.00008725	0.004	No	11	36.36	Kaplan-Meier	x^(1/3)	0.01	Param.
Beryllium (mg/L)	YAMW-2	0.0005	0.000051	0.004	No	8	25	None	No	0.004	NP (normality)
Beryllium (mg/L)	YAMW-3	0.00017	0.000062	0.004	No	4	0	None	No	0.0625	NP (selected)

Appendix IV Confidence Intervals - All Results

Plant Yates Data: Plant Yates AMA-R6 Printed 10/18/2023, 9:30 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	YAMW-5	0.0001496	0.0001028	0.004	No	9	0	None	No	0.01	Param.
Beryllium (mg/L)	YGWC-23S	0.00023	0.00009	0.004	No	23	21.74	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-24SB	0.000159	0.000103	0.004	No	22	13.64	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	YGWC-36A	0.0003979	0.0002085	0.004	No	23	4.348	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	YGWC-38	0.0056	0.0027	0.004	No	19	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-41	0.0037	0.0013	0.004	No	19	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-42	0.0005	0.000062	0.004	No	19	57.89	None	No	0.01	NP (NDs)
Beryllium (mg/L)	YGWC-43	0.00053	0.0003	0.004	No	19	31.58	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-49	0.00015	0.0001	0.004	No	18	5.556	None	No	0.01	NP (normality)
Cadmium (mg/L)	PZ-35	0.0005	0.00016	0.005	No	11	63.64	None	No	0.006	NP (NDs)
Cadmium (mg/L)	PZ-37	0.0007767	0.0004208	0.005	No	16	12.5	None	No	0.01	Param.
Cadmium (mg/L)	PZ-51	0.001992	0.001558	0.005	No	4	0	None	No	0.01	Param.
Cadmium (mg/L)	YAMW-1	0.0005	0.00014	0.005	No	11	36.36	None	No	0.006	NP (normality)
Cadmium (mg/L)	YAMW-2	0.0005	0.00015	0.005	No	8	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	YAMW-3	0.0005	0.00048	0.005	No	4	75	None	No	0.0625	NP (NDs)
Cadmium (mg/L)	YAMW-5	0.00046	0.00018	0.005	No	8	0	None	No	0.004	NP (normality)
Cadmium (mg/L)	YGWC-23S	0.0005	0.00007	0.005	No	23	95.65	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-36A	0.0005	0.00012	0.005	No	8	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	YGWC-38	0.0029	0.0011	0.005	No	19	0	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-41	0.0005	0.00017	0.005	No	19	42.11	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-42	0.0005	0.0002	0.005	No	19	52.63	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-49	0.0005	0.00007	0.005	No	18	94.44	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-35	0.005	0.0006	0.1	No	9	44.44	None	No	0.002	NP (normality)
Chromium (mg/L)	PZ-37	0.005	0.0019	0.1	No	16	81.25	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-52D	0.005	0.0011	0.1	No	4	75	None	No	0.0625	NP (NDs)
Chromium (mg/L)	YAMW-1	0.005	0.00058	0.1	No	9	44.44	None	No	0.002	NP (normality)
Chromium (mg/L)	YAMW-2	0.005	0.00071	0.1	No	8	50	None	No	0.004	NP (normality)
Chromium (mg/L)	YAMW-3	0.005	0.0011	0.1	No	4	75	None	No	0.0625	NP (NDs)
Chromium (mg/L)	YAMW-4	0.005	0.00057	0.1	No	8	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	YAMW-5	0.005	0.0016	0.1	No	8	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	YGWC-23S	0.005	0.00086	0.1	No	19	63.16	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-24SB	0.005	0.0011	0.1	No	18	83.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-36A	0.005	0.0035	0.1	No	19	78.95	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-38	0.005	0.00065	0.1	No	19	89.47	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-41	0.005	0.00039	0.1	No	19	94.74	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-42	0.005	0.0013	0.1	No	19	84.21	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-43	0.005	0.00074	0.1	No	19	78.95	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-49	0.002	0.0016	0.1	No	17	5.882	None	No	0.01	NP (normality)
Cobalt (mg/L)	PZ-35	0.005	0.005	0.035	No	11	90.91	None	No	0.006	NP (NDs)
Cobalt (mg/L)	PZ-37	0.009365	0.003532	0.035	No	16	0	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	PZ-51	0.033	0.0056	0.035	No	4	0	None	No	0.0625	NP (selected)
Cobalt (mg/L)	PZ-52D	0.004173	0.00002746	0.035	No	4	0	None	No	0.01	Param.
Cobalt (mg/L)	YAMW-1	0.02092	0.005216	0.035	No	12	16.67	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	YAMW-2	0.004809	0.0005225	0.035	No	8	12.5	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	**YAMW-3**	**0.16**	**0.058**	**0.035**	**Yes**	**4**	**0**	**None**	**No**	**0.0625**	**NP (selected)**
Cobalt (mg/L)	YAMW-4	0.0025	0.00041	0.035	No	8	12.5	None	No	0.004	NP (normality)
Cobalt (mg/L)	YAMW-5	0.005	0.00077	0.035	No	8	87.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	YGWC-36A	0.005	0.00086	0.035	No	23	78.26	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-41	0.005	0.0011	0.035	No	19	78.95	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-42	0.00212	0.001655	0.035	No	19	5.263	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YGWC-43	0.005	0.0005	0.035	No	19	36.84	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-49	0.005	0.0008	0.035	No	18	77.78	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	PZ-35	0.9183	0.3229	6.92	No	10	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-37	1.898	1.173	6.92	No	16	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-37D	3.653	0.7289	6.92	No	5	0	None	No	0.01	Param.

Appendix IV Confidence Intervals - All Results

Plant Yates Data: Plant Yates AMA-R6 Printed 10/18/2023, 9:30 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	PZ-51	1.367	0.004771	6.92	No	4	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-52D	1.88	0.218	6.92	No	5	0	None	No	0.031	NP (selected)
Combined Radium 226 + 228 (pCi/L)	YAMW-1	0.6764	0.3418	6.92	No	10	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YAMW-2	0.8326	0.07787	6.92	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YAMW-3	2.77	0.975	6.92	No	4	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	YAMW-4	1.009	0.1866	6.92	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YAMW-5	1.257	0.579	6.92	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-23S	0.7786	0.3935	6.92	No	23	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-24SB	0.766	0.4808	6.92	No	22	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-36A	0.9566	0.4886	6.92	No	23	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-38	1.134	0.5692	6.92	No	19	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-41	1.251	0.5991	6.92	No	19	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-42	2.282	0.9922	6.92	No	19	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-43	3.947	1.864	6.92	No	19	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-49	1.041	0.5266	6.92	No	18	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-37	0.26	0.1	4	No	16	75	None	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-37D	0.3519	0.08806	4	No	5	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-51	0.13	0.097	4	No	4	0	None	No	0.0625	NP (normality)
Fluoride (mg/L)	PZ-52D	0.1396	0.0299	4	No	4	0	None	No	0.01	Param.
Fluoride (mg/L)	YAMW-2	0.1	0.061	4	No	8	75	None	No	0.004	NP (NDs)
Fluoride (mg/L)	YAMW-3	0.09558	0.07175	4	No	4	25	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	YAMW-4	0.14	0.078	4	No	8	50	None	No	0.004	NP (normality)
Fluoride (mg/L)	YAMW-5	0.1	0.05	4	No	8	75	None	No	0.004	NP (NDs)
Fluoride (mg/L)	YGWC-23S	0.1	0.057	4	No	24	83.33	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-24SB	0.1	0.098	4	No	23	86.96	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-36A	0.1	0.094	4	No	24	70.83	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-38	0.2	0.1	4	No	20	70	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-41	0.11	0.1	4	No	20	90	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-42	0.1	0.07	4	No	20	70	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-43	0.1046	0.0606	4	No	20	20	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-49	0.14	0.09	4	No	19	68.42	Kaplan-Meier	No	0.01	NP (NDs)
Lead (mg/L)	PZ-35	0.001	0.00015	0.015	No	10	80	None	No	0.011	NP (NDs)
Lead (mg/L)	PZ-37	0.001	0.0001	0.015	No	16	68.75	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-52D	0.003871	0.0003706	0.015	No	4	50	Kaplan-Meier	x^(1/3)	0.01	Param.
Lead (mg/L)	YAMW-1	0.001	0.001	0.015	No	10	90	None	No	0.011	NP (NDs)
Lead (mg/L)	YAMW-2	0.001	0.00008	0.015	No	8	75	None	No	0.004	NP (NDs)
Lead (mg/L)	YAMW-4	0.001	0.000096	0.015	No	8	62.5	None	No	0.004	NP (NDs)
Lead (mg/L)	YAMW-5	0.001	0.000041	0.015	No	8	62.5	None	No	0.004	NP (NDs)
Lead (mg/L)	YGWC-23S	0.001	0.00044	0.015	No	21	80.95	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-24SB	0.001	0.00036	0.015	No	20	90	Kaplan-Meier	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-36A	0.0004543	0.0001726	0.015	No	21	33.33	Kaplan-Meier	sqrt(x)	0.01	Param.
Lead (mg/L)	YGWC-38	0.001	0.0001	0.015	No	19	84.21	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-41	0.0011	0.0002	0.015	No	19	73.68	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-42	0.001	0.0002	0.015	No	19	78.95	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-43	0.001	0.00008	0.015	No	19	89.47	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-49	0.001	0.000059	0.015	No	18	94.44	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-35	0.011	0.0011	0.04	No	11	9.091	None	No	0.006	NP (normality)
Lithium (mg/L)	PZ-37	0.02785	0.01961	0.04	No	16	6.25	None	No	0.01	Param.
Lithium (mg/L)	PZ-37D	0.01401	0.003751	0.04	No	5	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-51	0.006571	0.003629	0.04	No	4	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-52D	0.03637	0.009633	0.04	No	4	0	None	No	0.01	Param.
Lithium (mg/L)	YAMW-1	0.01994	0.008837	0.04	No	11	9.091	None	No	0.01	Param.
Lithium (mg/L)	YAMW-3	0.05491	0.03509	0.04	No	5	0	None	No	0.01	Param.
Lithium (mg/L)	YAMW-4	0.03524	0.02366	0.04	No	8	0	None	x^3	0.01	Param.
Lithium (mg/L)	YAMW-5	0.01577	0.01323	0.04	No	8	0	None	No	0.01	Param.

Appendix IV Confidence Intervals - All Results

Plant Yates Data: Plant Yates AMA-R6 Printed 10/18/2023, 9:30 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	YGWC-23S	0.0028	0.0019	0.04	No	23	4.348	None	No	0.01	NP (normality)
Lithium (mg/L)	YGWC-36A	0.015	0.00086	0.04	No	8	12.5	None	No	0.004	NP (normality)
Lithium (mg/L)	YGWC-38	0.008506	0.00702	0.04	No	19	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-41	0.0043	0.0021	0.04	No	19	5.263	None	No	0.01	NP (normality)
Lithium (mg/L)	YGWC-42	0.04948	0.03498	0.04	No	19	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-43	0.01773	0.01221	0.04	No	19	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-49	0.003784	0.003416	0.04	No	18	0	None	No	0.01	Param.
Mercury (mg/L)	PZ-37	0.0002	0.00019	0.002	No	16	87.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	YAMW-3	0.0002	0.00016	0.002	No	4	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	YGWC-23S	0.0002	0.00015	0.002	No	18	88.89	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-38	0.0002	0.00008	0.002	No	16	87.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-41	0.0002	0.00006	0.002	No	16	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-42	0.0002	0.000048	0.002	No	16	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-43	0.0002	0.00009	0.002	No	16	87.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-49	0.0002	0.00014	0.002	No	15	86.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-35	0.01	0.0019	0.1	No	9	88.89	None	No	0.002	NP (NDs)
Molybdenum (mg/L)	PZ-37	0.01	0.0016	0.1	No	16	50	None	No	0.01	NP (normality)
Molybdenum (mg/L)	PZ-37D	0.006227	0.0008931	0.1	No	5	0	None	No	0.01	Param.
Molybdenum (mg/L)	PZ-52D	0.011	0.003	0.1	No	4	0	None	No	0.0625	NP (selected)
Molybdenum (mg/L)	YAMW-1	0.01	0.00089	0.1	No	9	44.44	None	No	0.002	NP (normality)
Molybdenum (mg/L)	YAMW-3	0.01065	0.001548	0.1	No	4	0	None	No	0.01	Param.
Molybdenum (mg/L)	YAMW-4	0.008014	0.006129	0.1	No	8	0	None	x^2	0.01	Param.
Molybdenum (mg/L)	YGWC-36A	0.01	0.0027	0.1	No	19	68.42	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-42	0.01	0.00081	0.1	No	19	31.58	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-43	0.01	0.0012	0.1	No	19	36.84	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-49	0.01	0.0007	0.1	No	17	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-35	0.005	0.003	0.05	No	11	54.55	None	No	0.006	NP (NDs)
Selenium (mg/L)	**PZ-37**	**0.2745**	**0.197**	**0.05**	**Yes**	**16**	**0**	**None**	**No**	**0.01**	**Param.**
Selenium (mg/L)	PZ-51	0.03178	0.02172	0.05	No	4	0	None	No	0.01	Param.
Selenium (mg/L)	PZ-52D	0.011	0.0025	0.05	No	4	0	None	No	0.0625	NP (selected)
Selenium (mg/L)	YAMW-1	0.005	0.0027	0.05	No	11	45.45	None	No	0.006	NP (normality)
Selenium (mg/L)	YAMW-3	0.0075	0.005	0.05	No	5	80	None	No	0.031	NP (NDs)
Selenium (mg/L)	YAMW-4	0.01909	0.002432	0.05	No	9	22.22	Kaplan-Meier	x^2	0.01	Param.
Selenium (mg/L)	YAMW-5	0.05996	0.04227	0.05	No	9	0	None	x^2	0.01	Param.
Selenium (mg/L)	YGWC-23S	0.03843	0.0285	0.05	No	23	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-36A	0.005	0.002	0.05	No	23	39.13	None	No	0.01	NP (normality)
Selenium (mg/L)	**YGWC-38**	**0.246**	**0.06**	**0.05**	**Yes**	**19**	**0**	**None**	**No**	**0.01**	**NP (normality)**
Selenium (mg/L)	YGWC-41	0.067	0.027	0.05	No	19	0	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-42	0.05297	0.0382	0.05	No	19	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-49	0.008327	0.00654	0.05	No	18	5.556	None	No	0.01	Param.
Thallium (mg/L)	YGWC-49	0.001	0.00009	0.002	No	16	93.75	None	No	0.01	NP (NDs)

Appendix IV Trend Tests - Confidence Interval Exceedances - Significant Results

Plant Yates Data: Plant Yates AMA-R6 Printed 10/18/2023, 9:39 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Cobalt (mg/L)	**YGWA-39 (bg)**	**-0.0007887**	**-71**	**-62**	**Yes**	**20**	**45**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**YGWA-47 (bg)**	**-0.001062**	**-119**	**-58**	**Yes**	**19**	**5.263**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**YGWA-30I (bg)**	**-0.004294**	**-263**	**-81**	**Yes**	**24**	**0**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	**YGWA-17S (bg)**	**0**	**112**	**76**	**Yes**	**23**	**73.91**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	**YGWC-38**	**-0.04532**	**-156**	**-58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**

Appendix IV Trend Tests - Confidence Interval Exceedances - All Results

Plant Yates Data: Plant Yates AMA-R6 Printed 10/18/2023, 9:39 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Cobalt (mg/L)	YAMW-3	0.002456	0	8	No	4	0	n/a	0.05	NP
Cobalt (mg/L)	YGWA-17S (bg)	0	0	76	No	23	100	n/a	0.05	NP
Cobalt (mg/L)	YGWA-18I (bg)	0	0	81	No	24	100	n/a	0.05	NP
Cobalt (mg/L)	YGWA-18S (bg)	0	64	81	No	24	87.5	n/a	0.05	NP
Cobalt (mg/L)	YGWA-20S (bg)	0	0	81	No	24	100	n/a	0.05	NP
Cobalt (mg/L)	YGWA-21I (bg)	0.0004012	34	81	No	24	4.167	n/a	0.05	NP
Cobalt (mg/L)	**YGWA-39 (bg)**	**-0.0007887**	**-71**	**-62**	**Yes**	**20**	**45**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	YGWA-40 (bg)	0	0	62	No	20	100	n/a	0.05	NP
Cobalt (mg/L)	YGWA-4I (bg)	0	60	81	No	24	58.33	n/a	0.05	NP
Cobalt (mg/L)	YGWA-5D (bg)	0	-13	-81	No	24	91.67	n/a	0.05	NP
Cobalt (mg/L)	YGWA-5I (bg)	0	0	81	No	24	100	n/a	0.05	NP
Cobalt (mg/L)	**YGWA-47 (bg)**	**-0.001062**	**-119**	**-58**	**Yes**	**19**	**5.263**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	GWA-2 (bg)	-0.00005218	-98	-134	No	34	32.35	n/a	0.05	NP
Cobalt (mg/L)	YGWA-14S (bg)	0	0	81	No	24	100	n/a	0.05	NP
Cobalt (mg/L)	YGWA-1D (bg)	0	-62	-81	No	24	83.33	n/a	0.05	NP
Cobalt (mg/L)	YGWA-1I (bg)	0.00003652	25	81	No	24	8.333	n/a	0.05	NP
Cobalt (mg/L)	YGWA-2I (bg)	0	0	81	No	24	100	n/a	0.05	NP
Cobalt (mg/L)	**YGWA-30I (bg)**	**-0.004294**	**-263**	**-81**	**Yes**	**24**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	YGWA-3D (bg)	0	0	81	No	24	100	n/a	0.05	NP
Cobalt (mg/L)	YGWA-3I (bg)	0	0	81	No	24	100	n/a	0.05	NP
Selenium (mg/L)	**YGWA-17S (bg)**	**0**	**112**	**76**	**Yes**	**23**	**73.91**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	YGWA-18I (bg)	0	0	81	No	24	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-18S (bg)	0	0	81	No	24	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-20S (bg)	0	0	81	No	24	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-21I (bg)	0	43	81	No	24	91.67	n/a	0.05	NP
Selenium (mg/L)	YGWA-39 (bg)	0	5	62	No	20	95	n/a	0.05	NP
Selenium (mg/L)	YGWA-40 (bg)	0	-14	-62	No	20	45	n/a	0.05	NP
Selenium (mg/L)	YGWA-4I (bg)	0	9	81	No	24	91.67	n/a	0.05	NP
Selenium (mg/L)	YGWA-5D (bg)	0	0	81	No	24	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-5I (bg)	0	21	81	No	24	95.83	n/a	0.05	NP
Selenium (mg/L)	**YGWC-38**	**-0.04532**	**-156**	**-58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	YGWA-47 (bg)	0	23	41	No	15	86.67	n/a	0.05	NP
Selenium (mg/L)	GWA-2 (bg)	0	0	170	No	40	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-14S (bg)	0	39	71	No	22	68.18	n/a	0.05	NP
Selenium (mg/L)	YGWA-1D (bg)	0	0	71	No	22	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-1I (bg)	0	0	71	No	22	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-2I (bg)	0	0	71	No	22	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-30I (bg)	0	0	71	No	22	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-3D (bg)	0	0	71	No	22	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-3I (bg)	0	0	71	No	22	100	n/a	0.05	NP
Selenium (mg/L)	PZ-37	-0.01569	-44	-45	No	16	0	n/a	0.05	NP

Table of Contents

FIGURE A.

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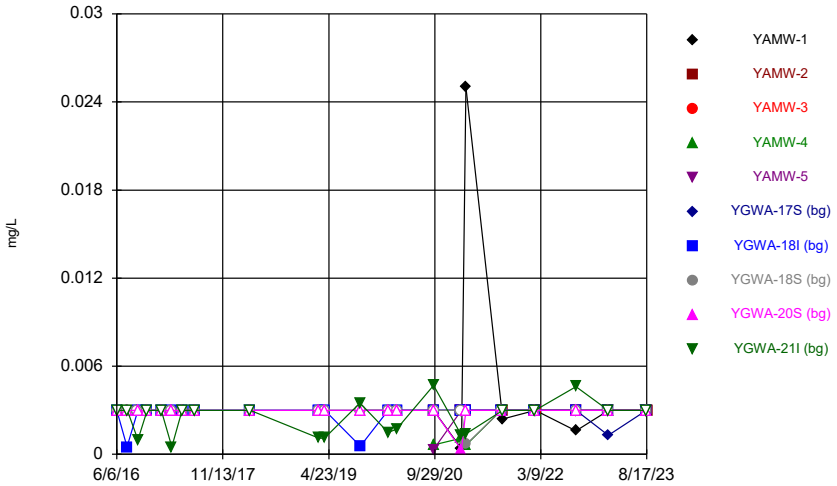
Time Series



Constituent: Antimony Analysis Run 10/18/2023 8:28 AM
Plant Yates Data: Plant Yates AMA-R6

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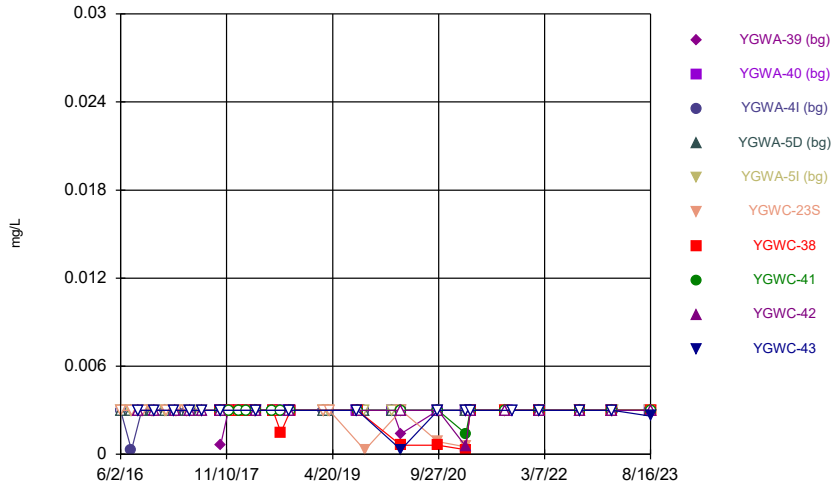

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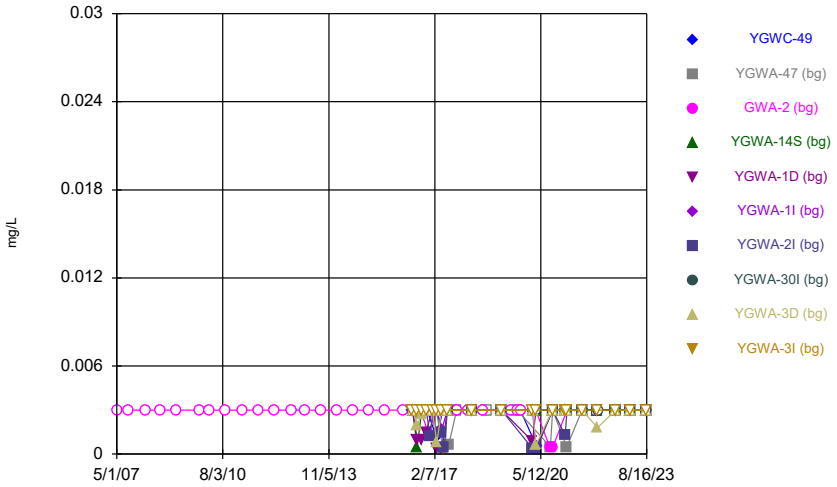

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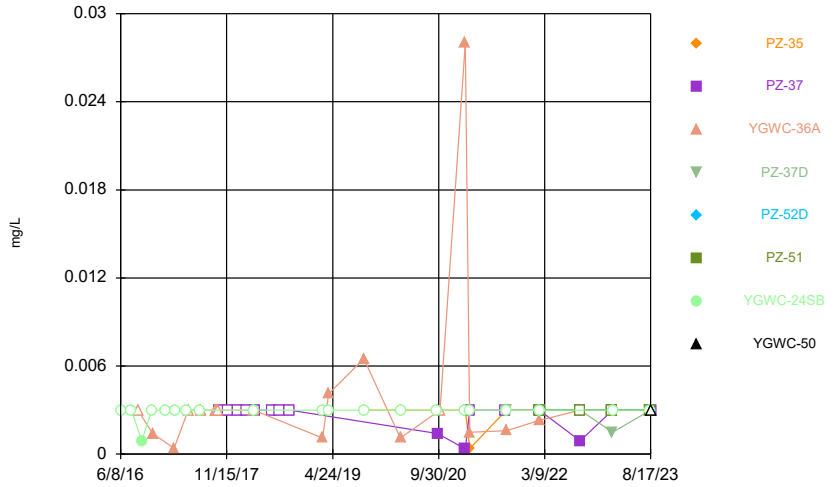

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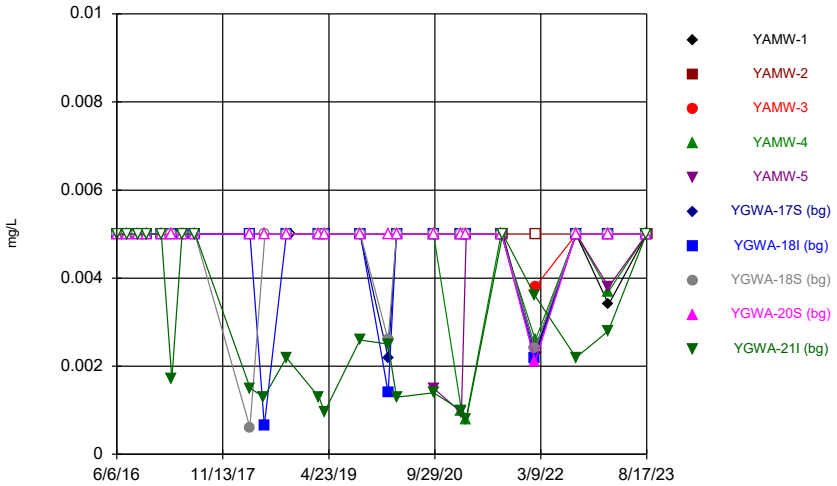

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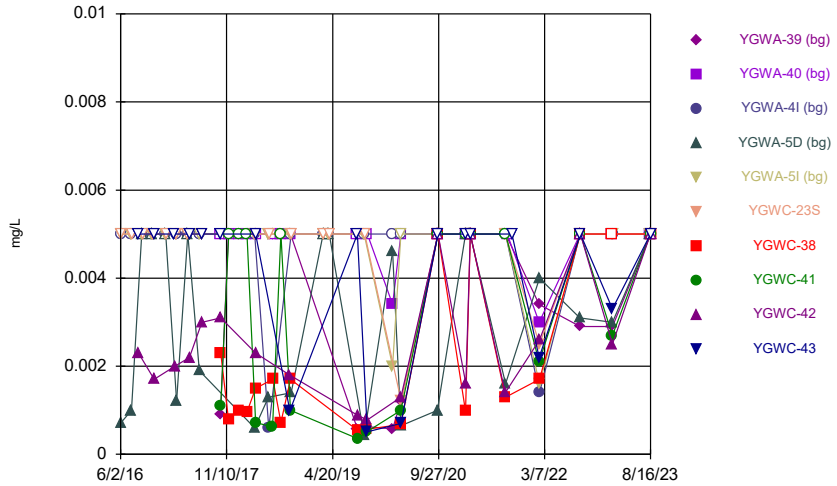

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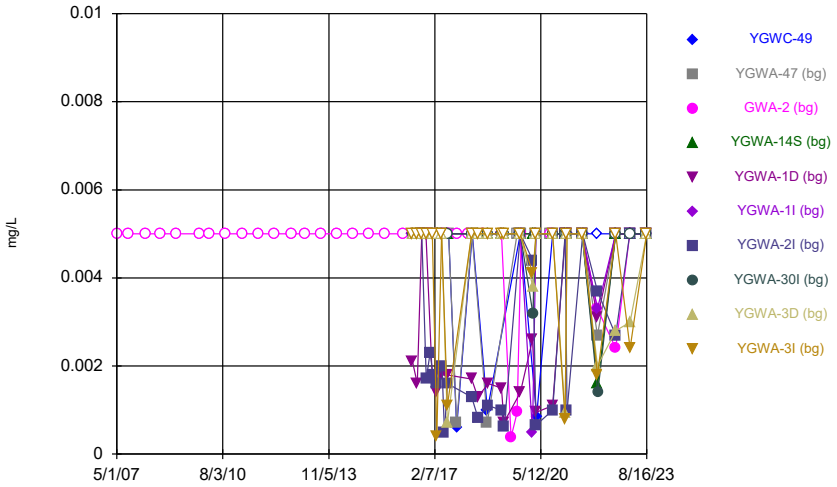

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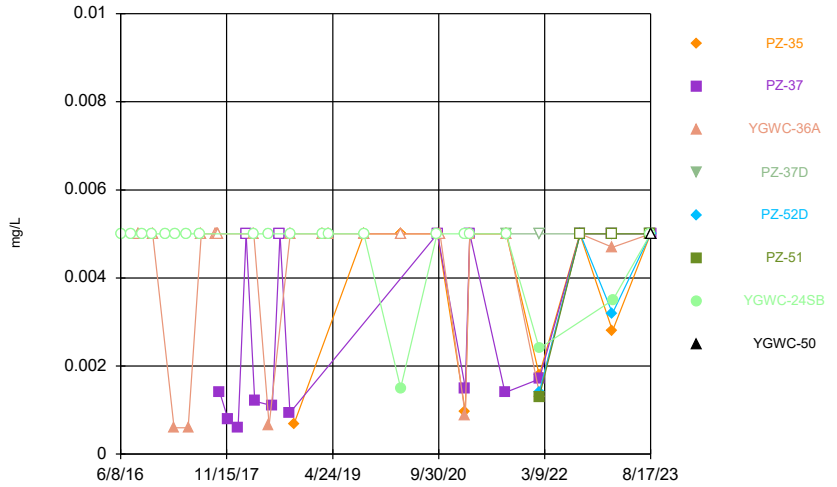

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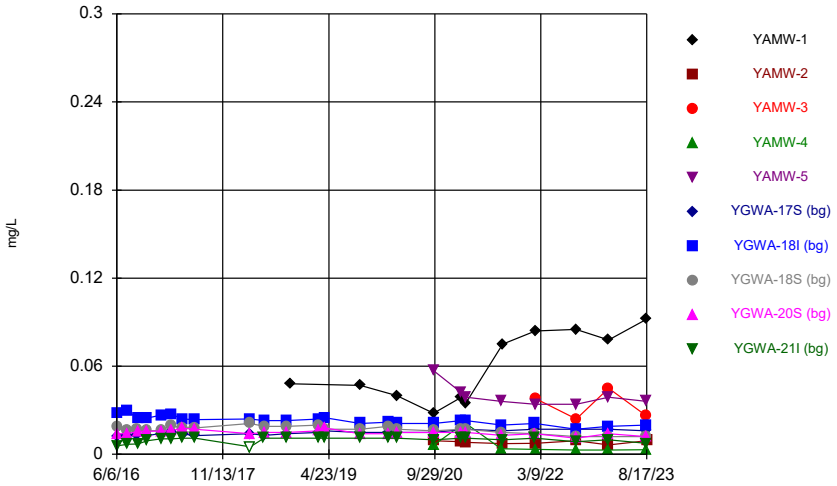

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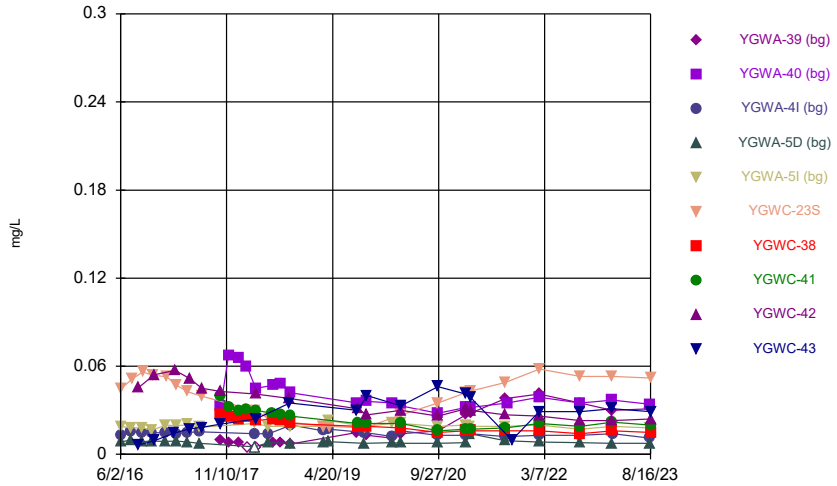

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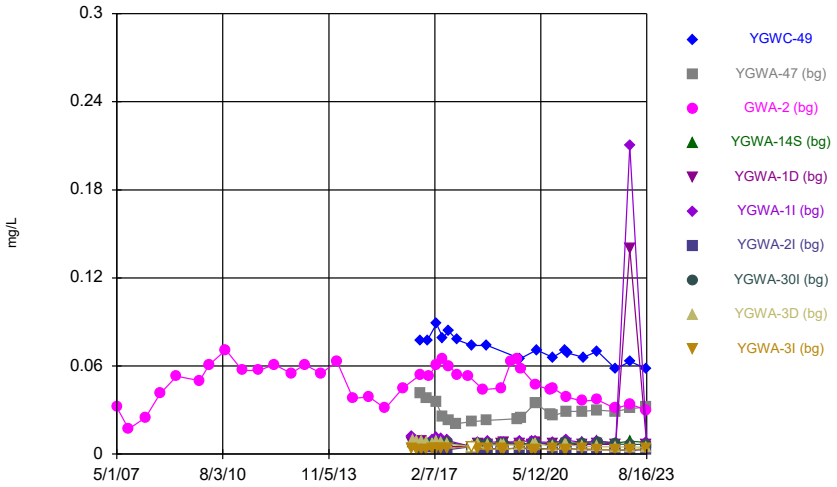

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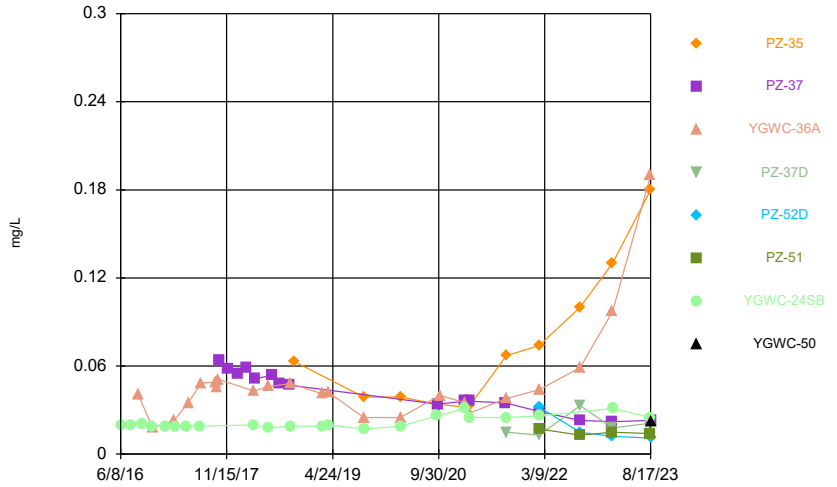

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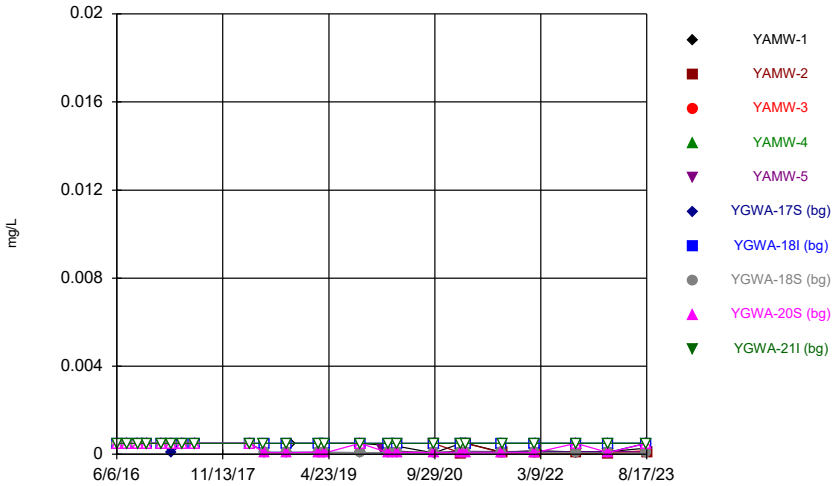

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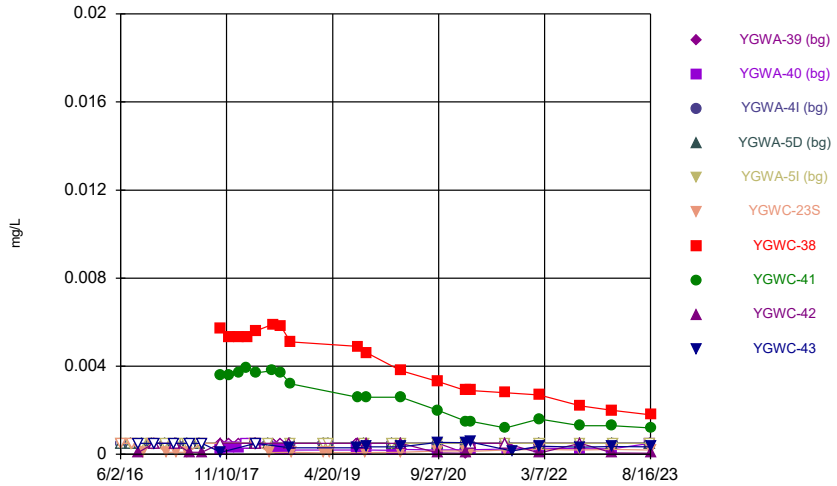

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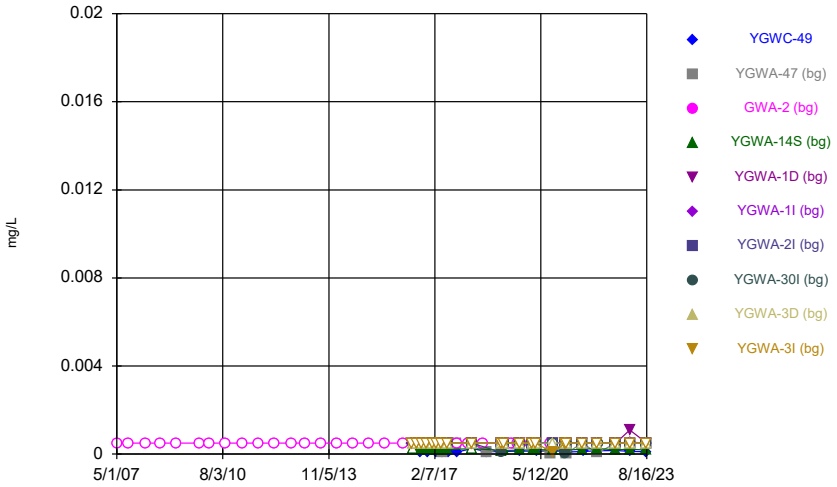

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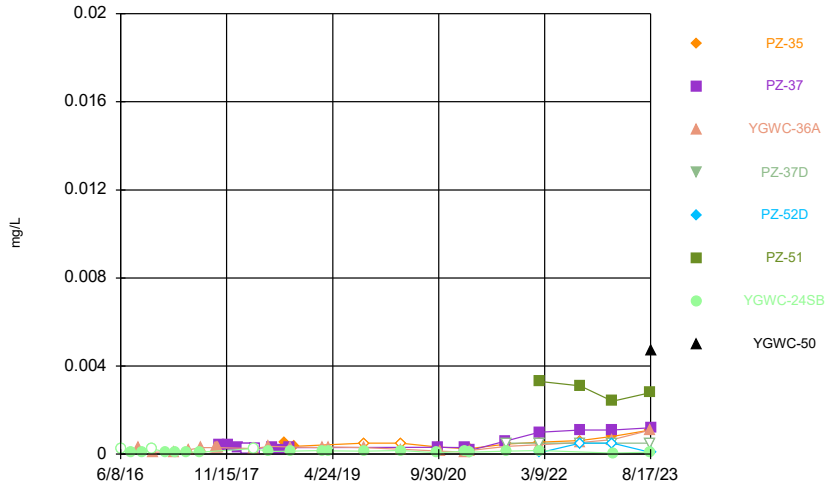

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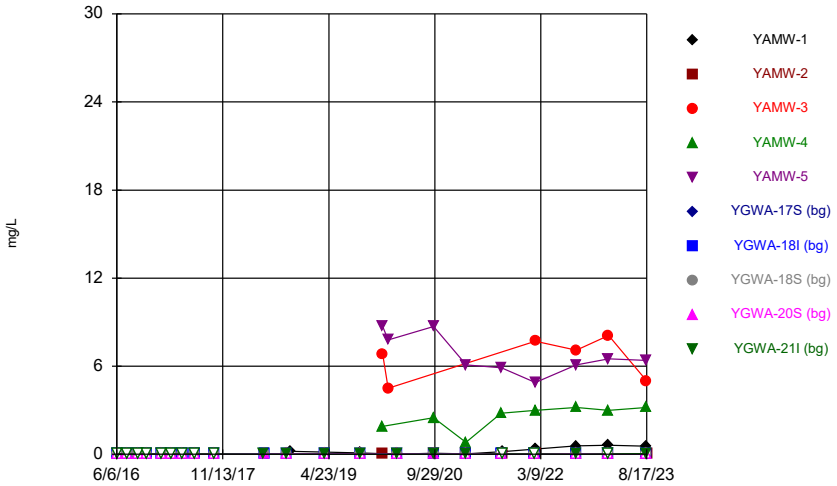

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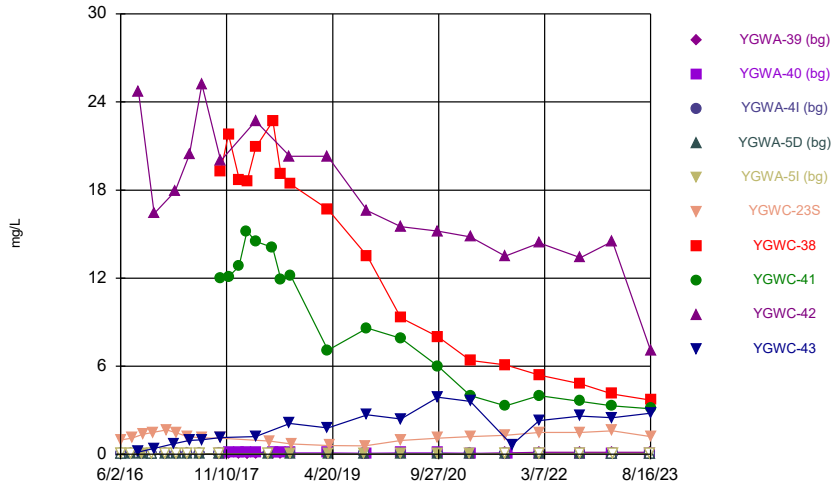

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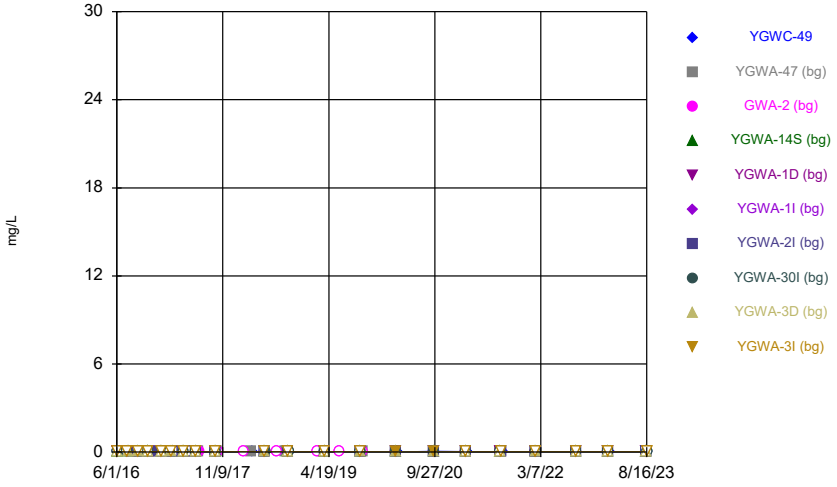

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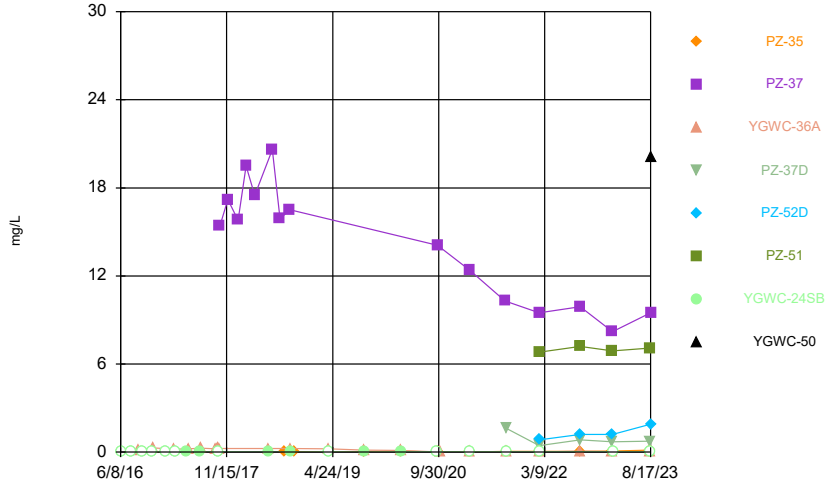

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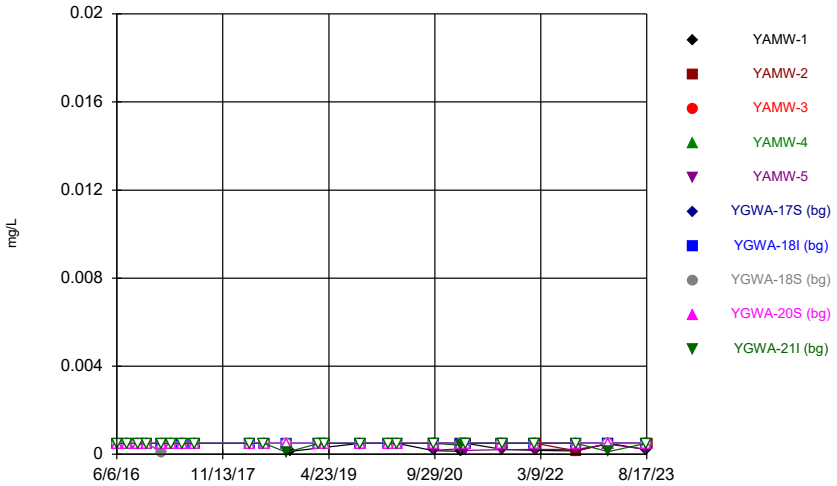

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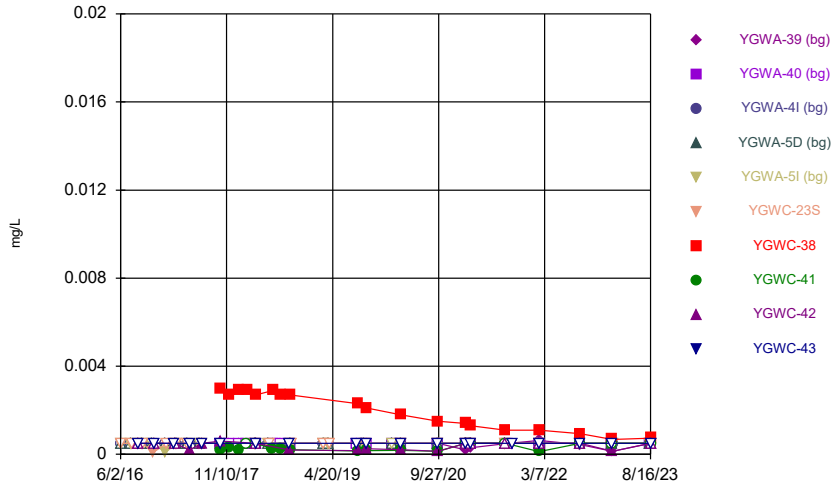

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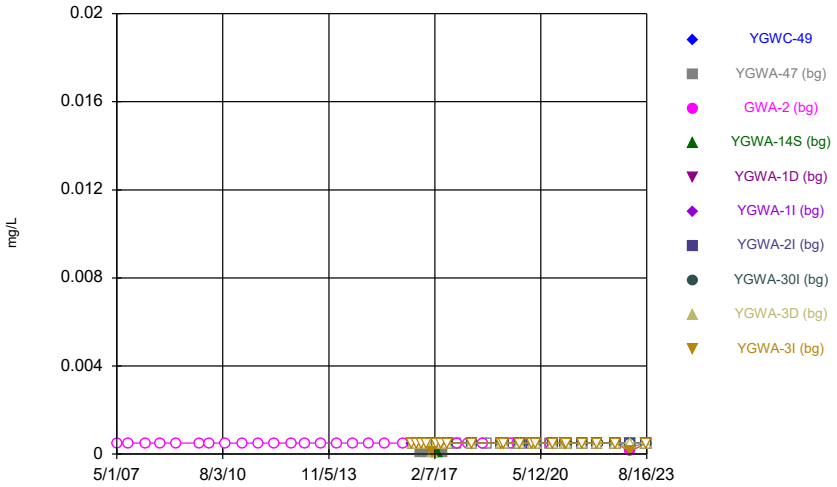

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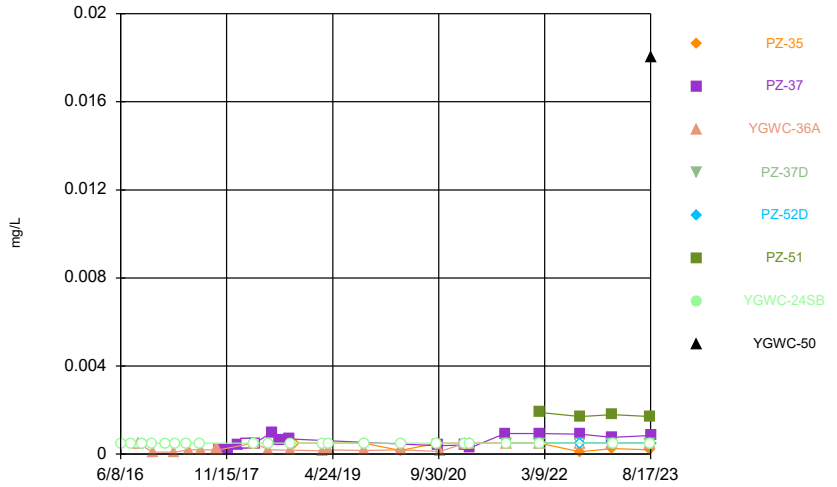

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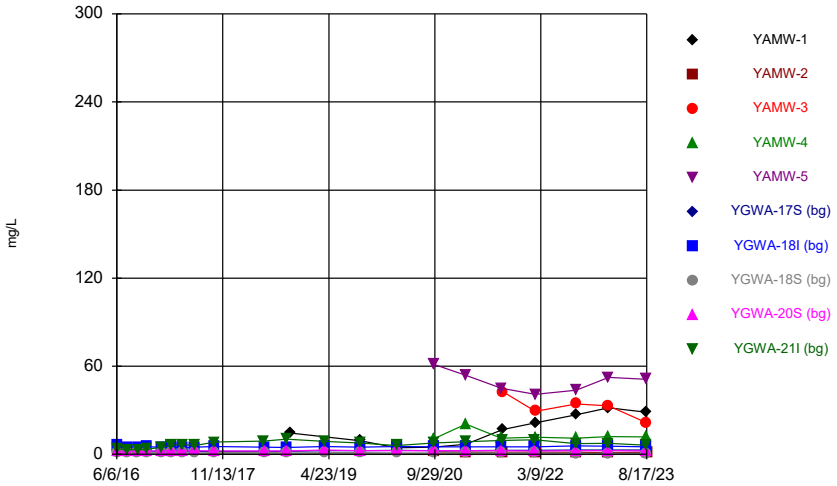

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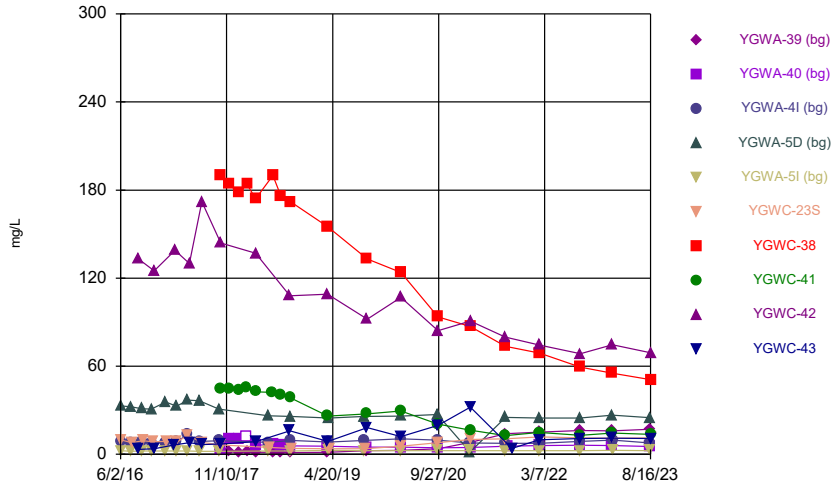

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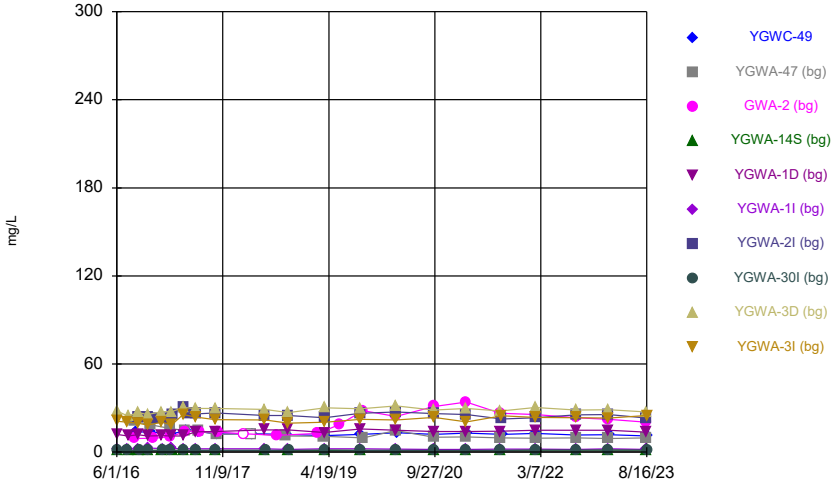

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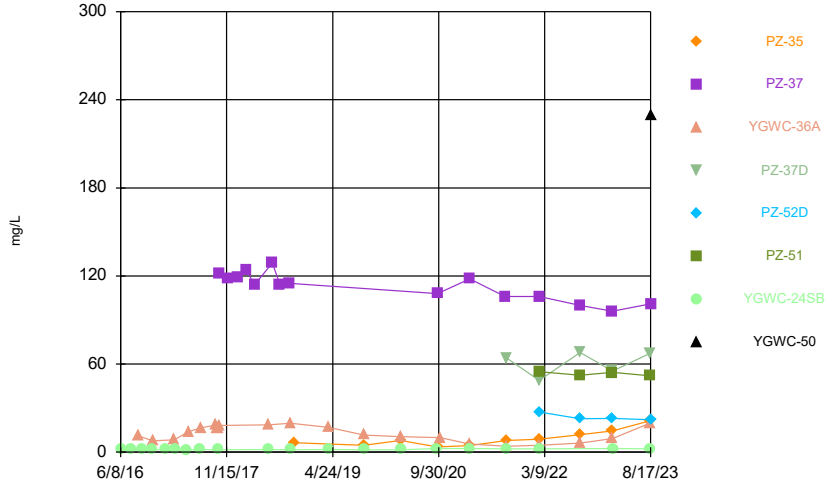

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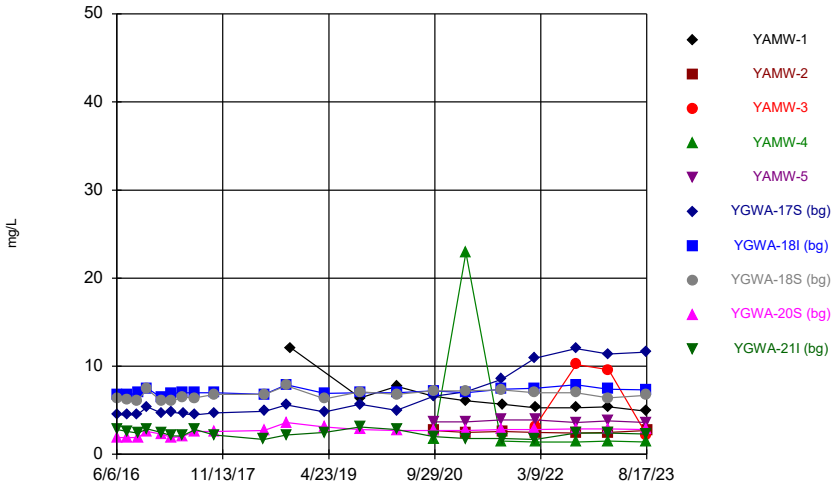

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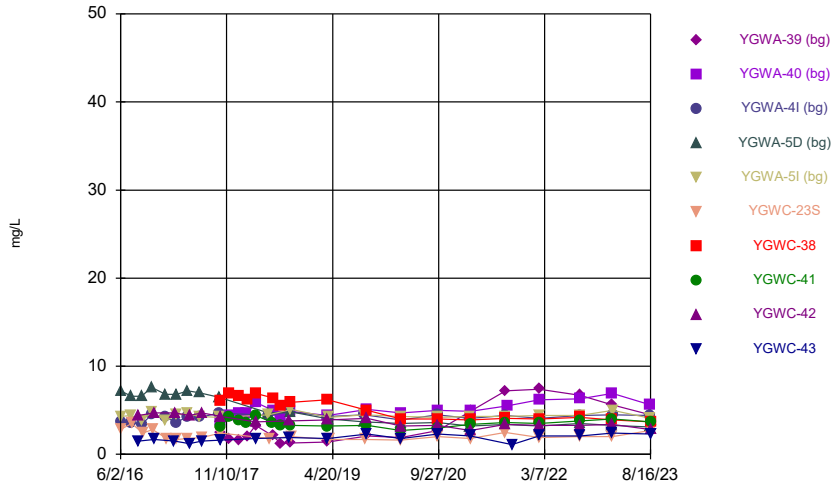

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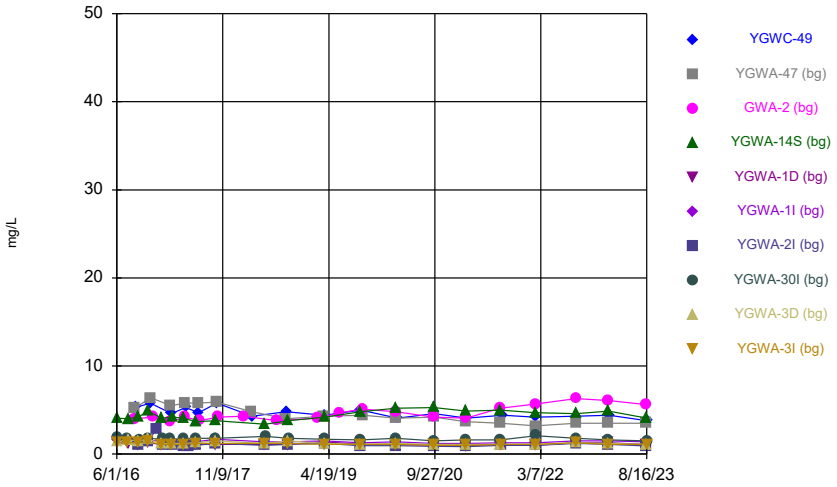

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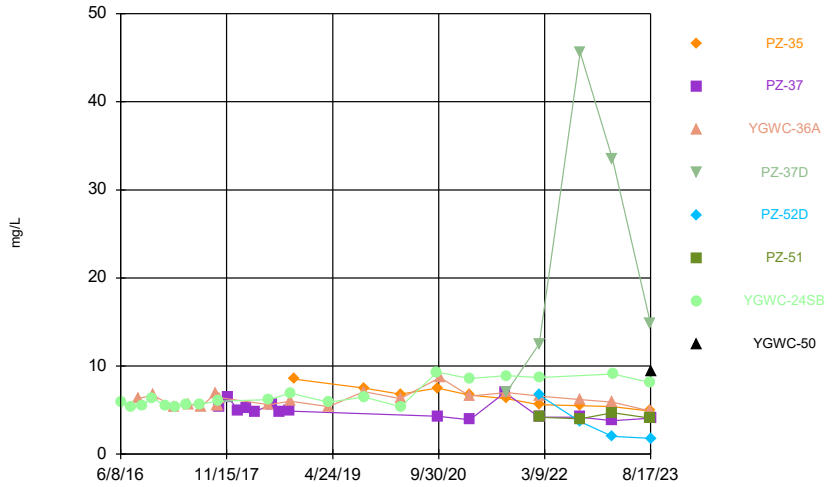

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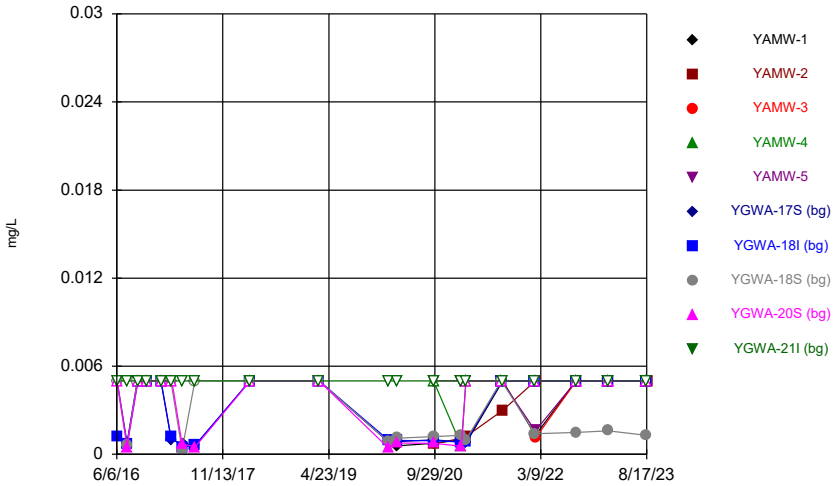

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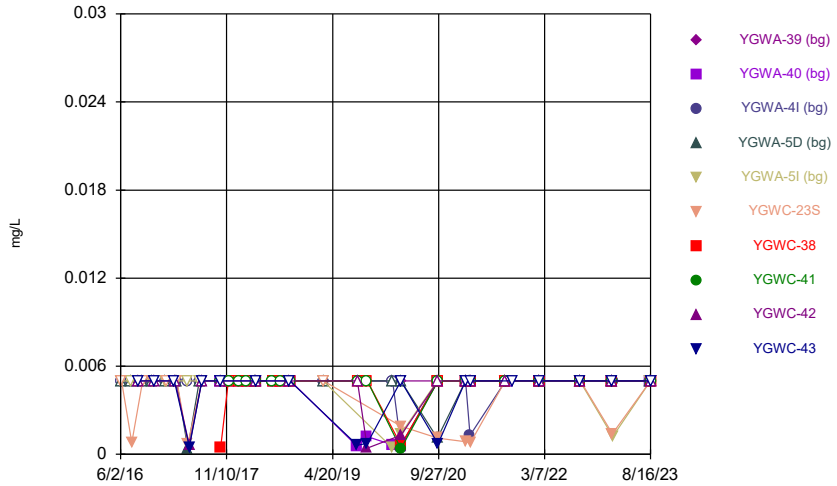

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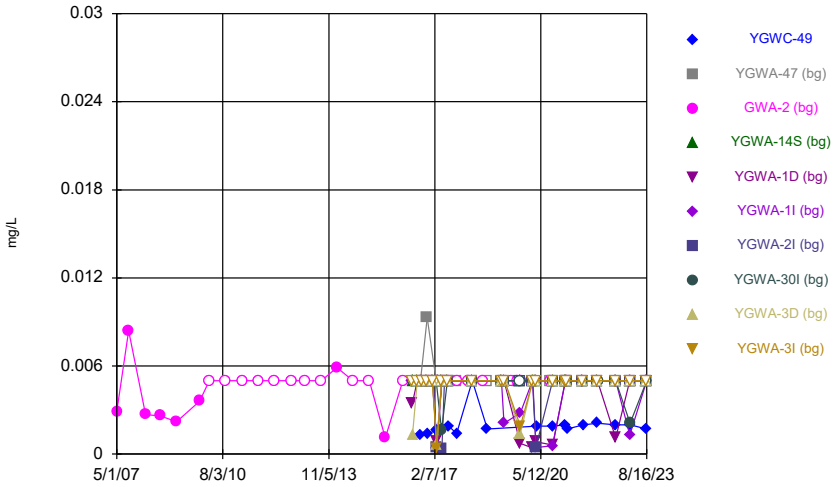

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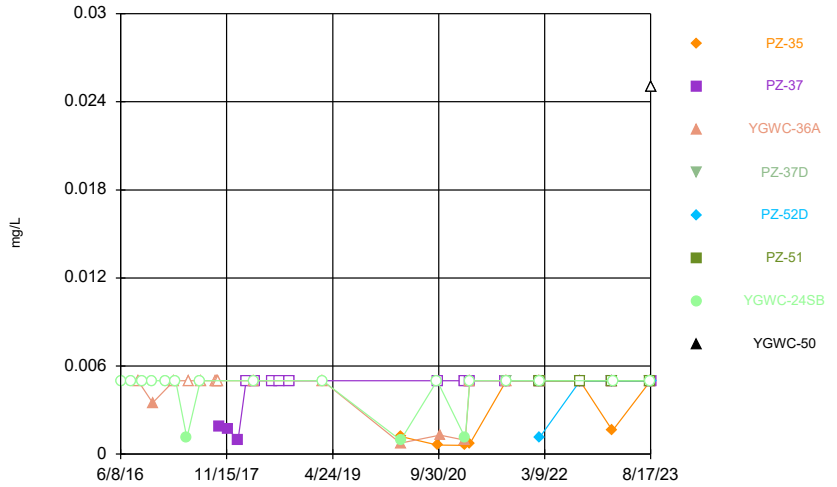

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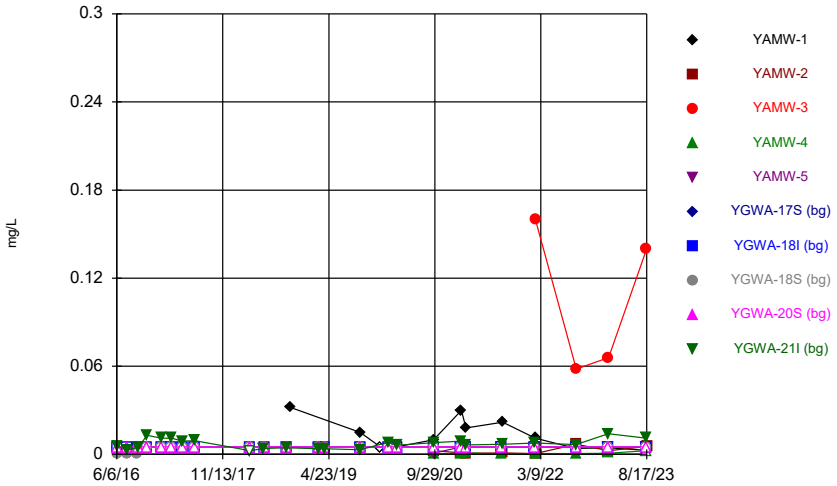

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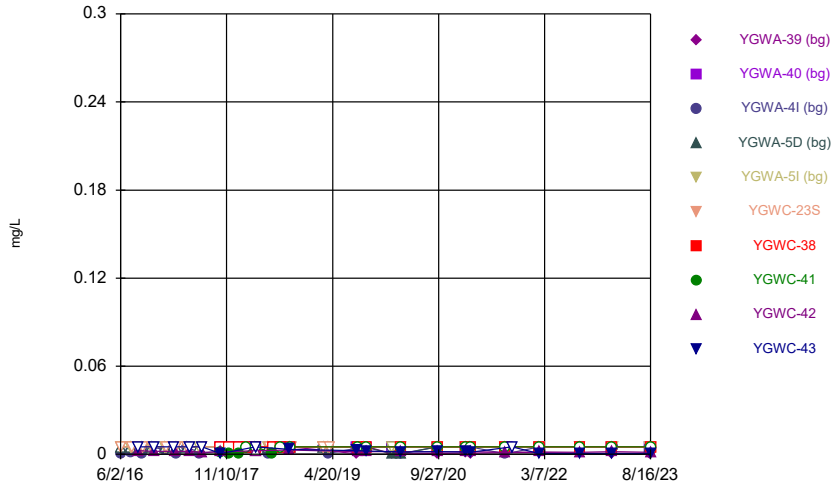

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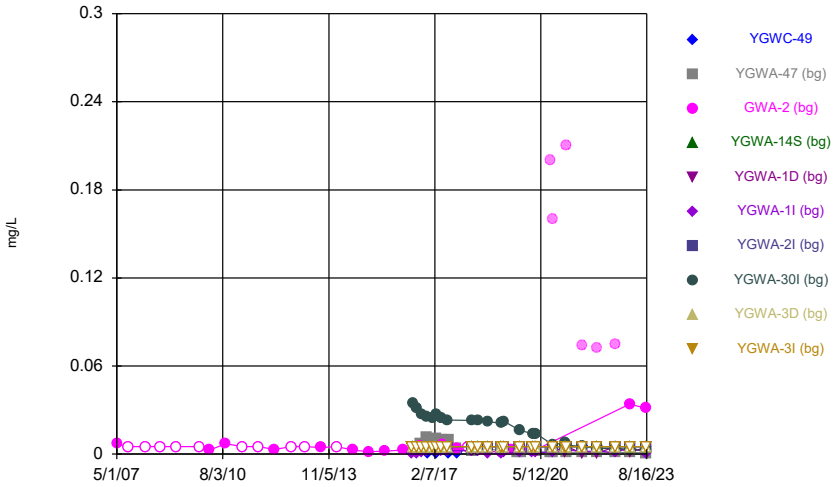

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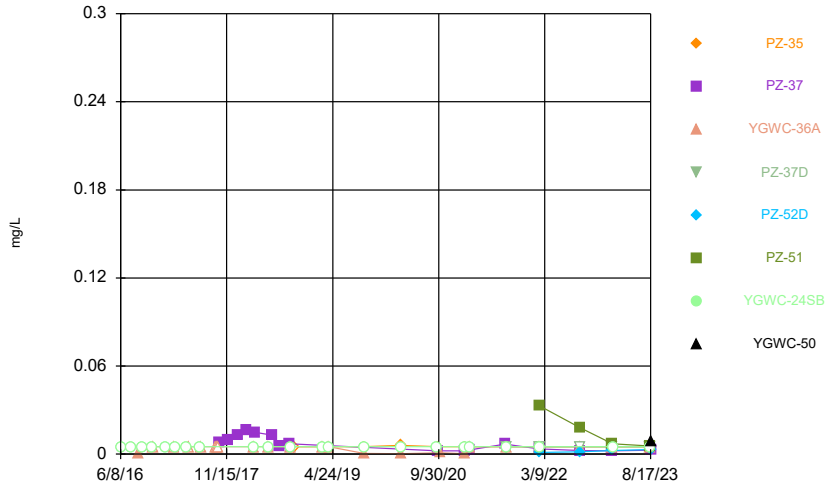

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Plant Yates Data: Plant Yates AMA-R6

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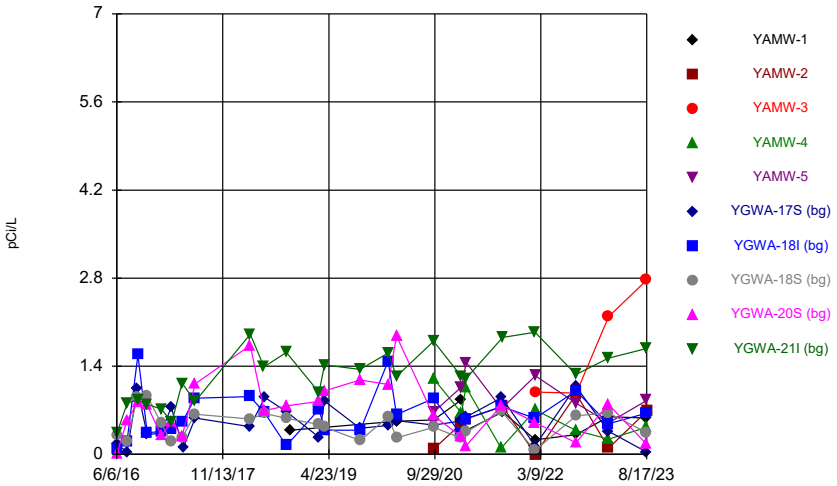
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 10/18/2023 8:29 AM

Plant Yates Data: Plant Yates AMA-R6

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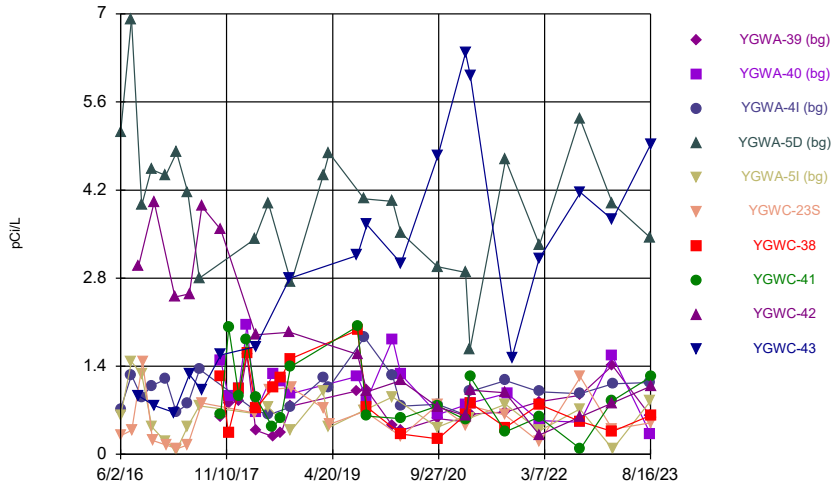
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 10/18/2023 8:29 AM

Plant Yates Data: Plant Yates AMA-R6

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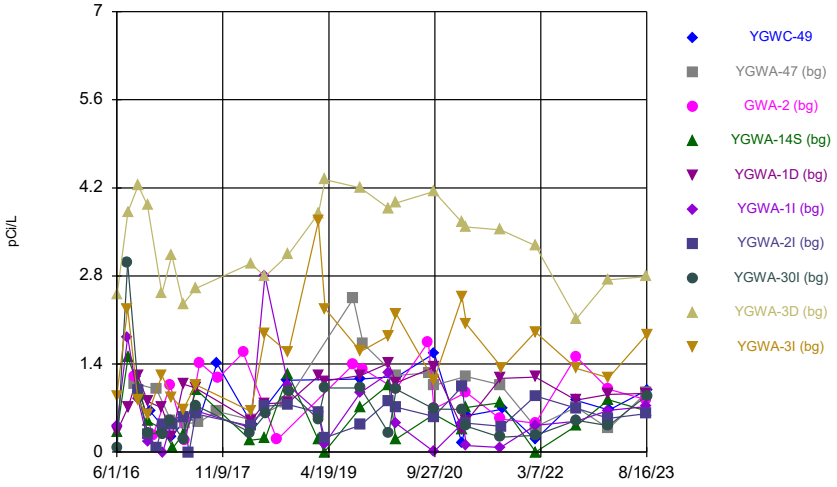
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 10/18/2023 8:29 AM

Plant Yates Data: Plant Yates AMA-R6

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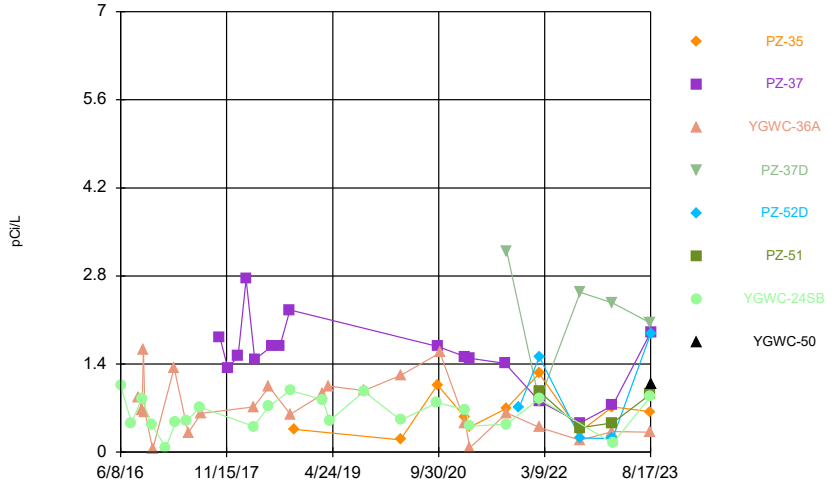
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 10/18/2023 8:29 AM

Plant Yates Data: Plant Yates AMA-R6

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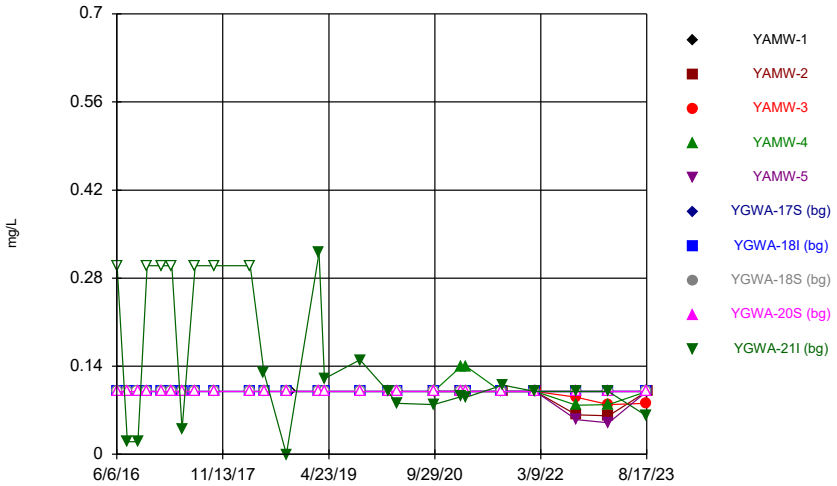
Hollow symbols indicate censored values.

Time Series



Constituent: Fluoride Analysis Run 10/18/2023 8:29 AM
Plant Yates Data: Plant Yates AMA-R6

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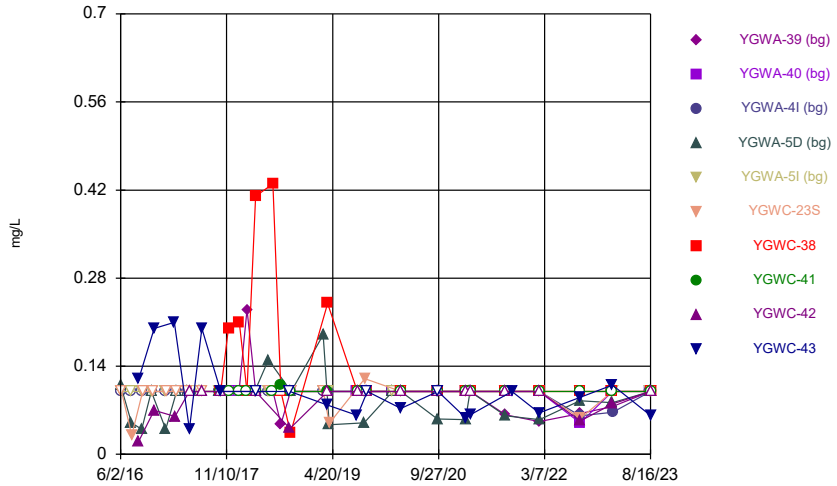
Hollow symbols indicate censored values.

Time Series



Constituent: Fluoride Analysis Run 10/18/2023 8:29 AM
Plant Yates Data: Plant Yates AMA-R6

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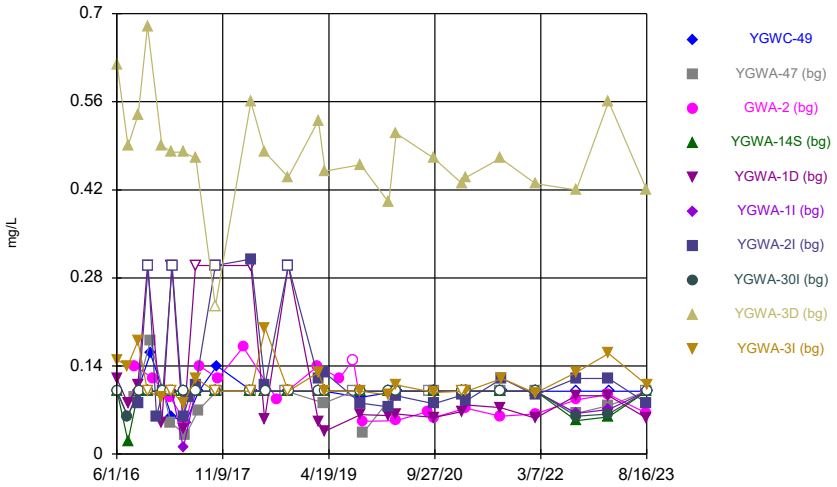
Hollow symbols indicate censored values.

Time Series



Constituent: Fluoride Analysis Run 10/18/2023 8:29 AM
Plant Yates Data: Plant Yates AMA-R6

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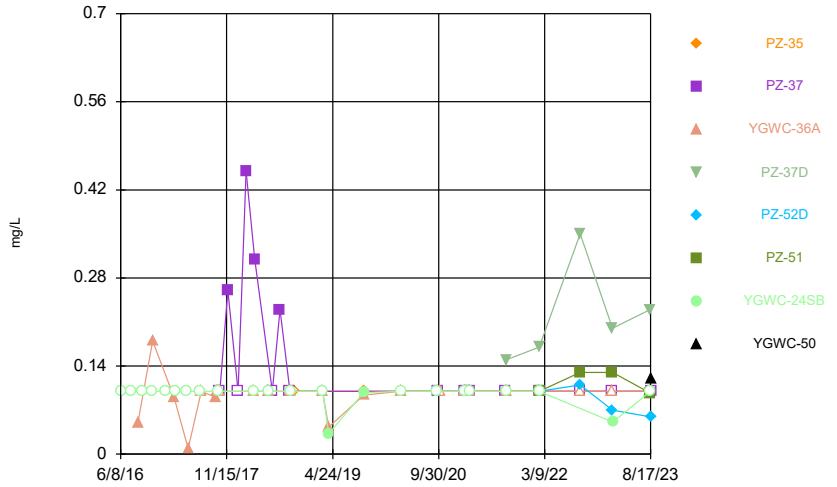
Hollow symbols indicate censored values.

Time Series



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Plant Yates Data: Plant Yates AMA-R6

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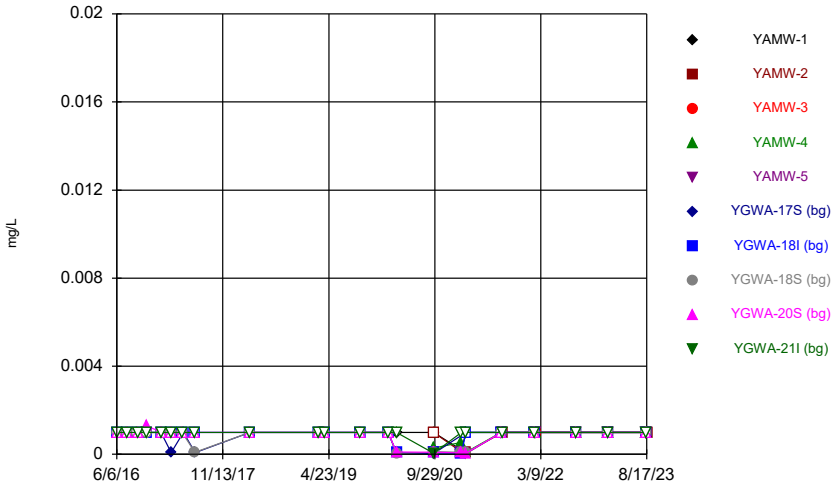
Hollow symbols indicate censored values.

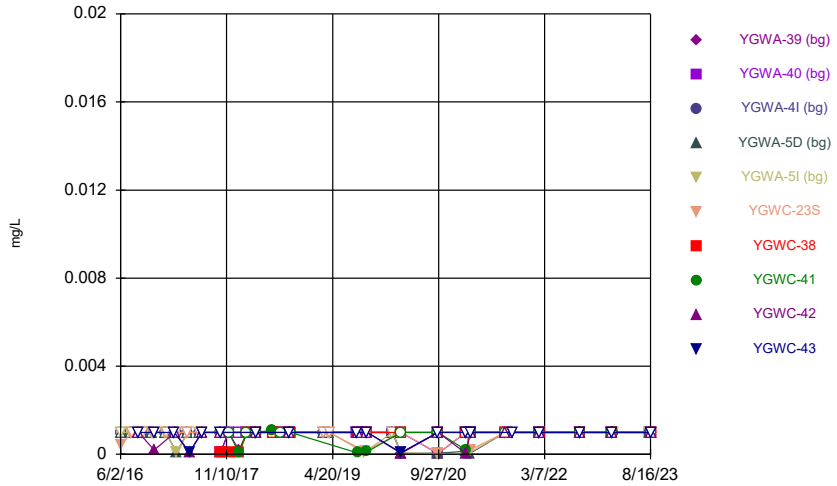
Time Series



Constituent: Lead Analysis Run 10/18/2023 8:29 AM
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.13 Software licensed to . UG
Hollow symbols indicate censored values.

Time Series



Constituent: Lead Analysis Run 10/18/2023 8:29 AM
Plant Yates Data: Plant Yates AMA-R6

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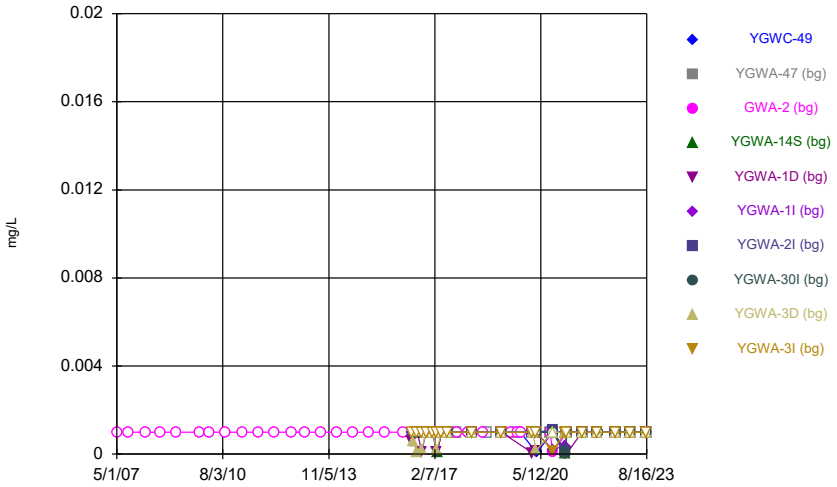
Hollow symbols indicate censored values.

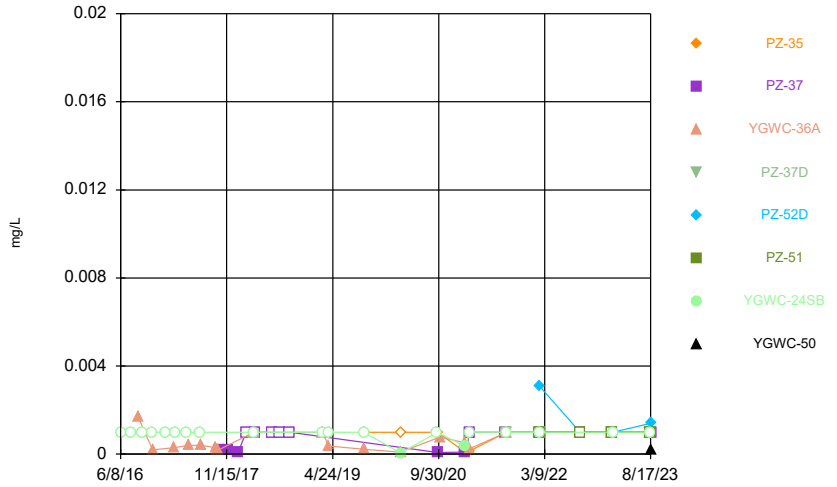
Time Series



Constituent: Lead Analysis Run 10/18/2023 8:29 AM
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.13 Software licensed to . UG
Hollow symbols indicate censored values.

Time Series



Constituent: Lead Analysis Run 10/18/2023 8:29 AM
Plant Yates Data: Plant Yates AMA-R6

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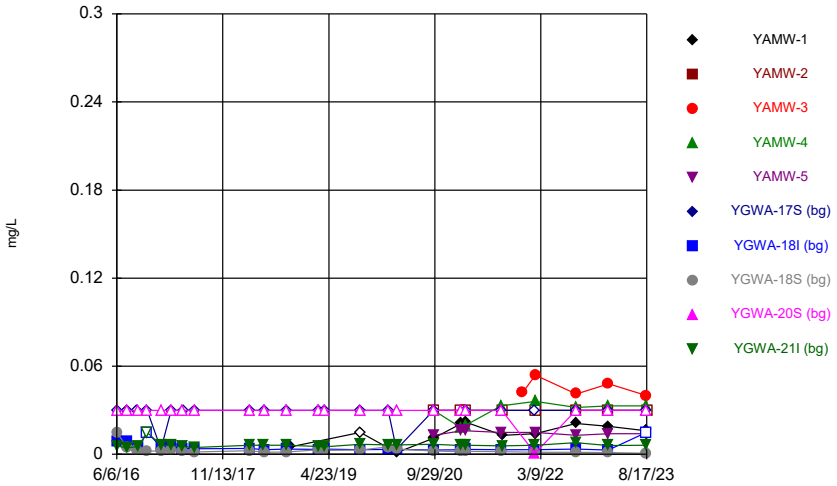
Hollow symbols indicate censored values.

Time Series



Constituent: Lithium Analysis Run 10/18/2023 8:29 AM
Plant Yates Data: Plant Yates AMA-R6

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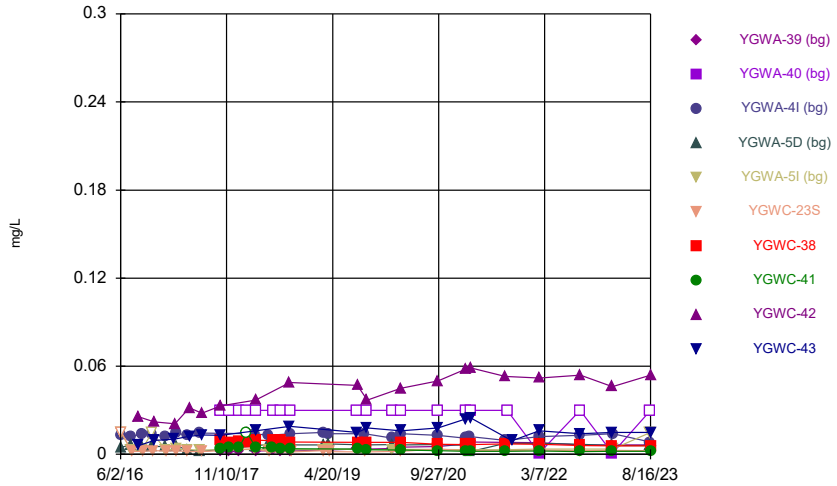
Hollow symbols indicate censored values.

Time Series



Constituent: Lithium Analysis Run 10/18/2023 8:29 AM
Plant Yates Data: Plant Yates AMA-R6

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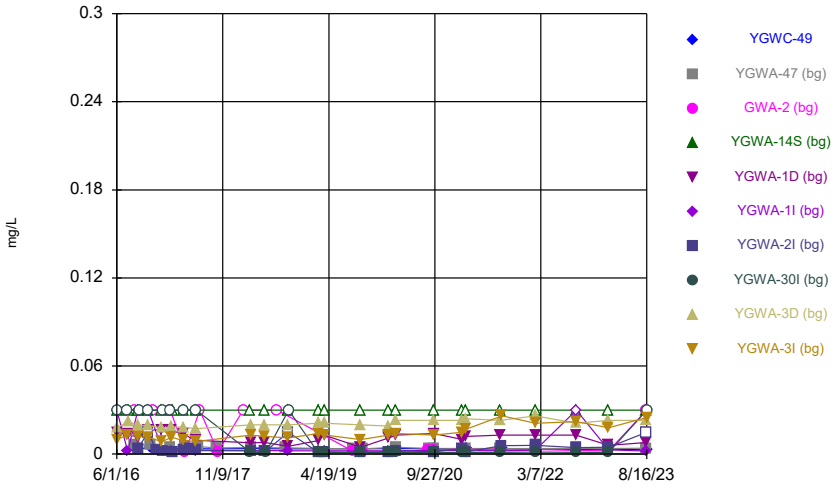
Hollow symbols indicate censored values.

Time Series



Constituent: Lithium Analysis Run 10/18/2023 8:29 AM
Plant Yates Data: Plant Yates AMA-R6

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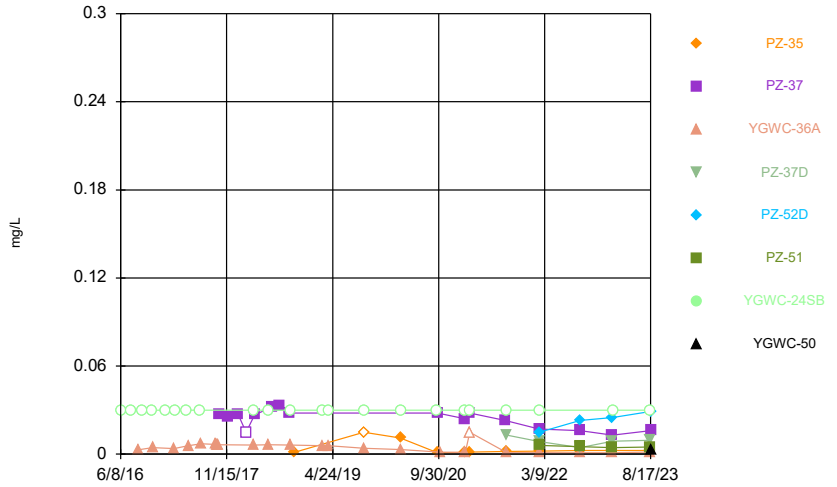
Hollow symbols indicate censored values.

Time Series



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Plant Yates Data: Plant Yates AMA-R6

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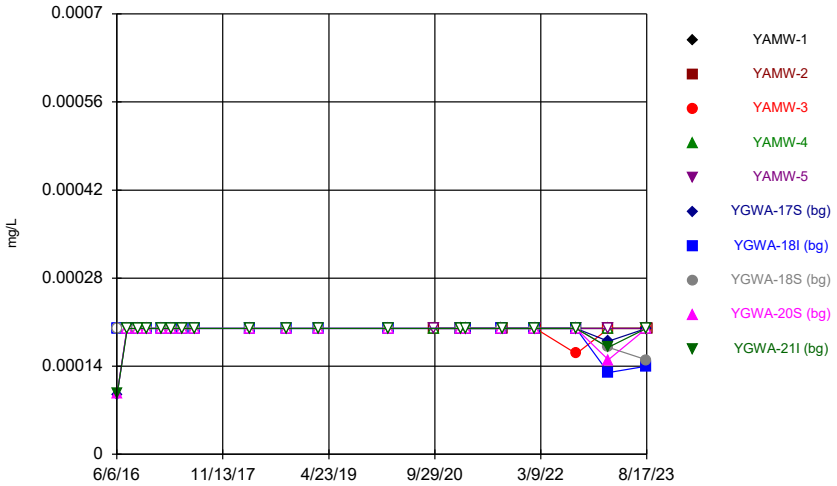
Hollow symbols indicate censored values.

Time Series



Constituent: Mercury Analysis Run 10/18/2023 8:29 AM
Plant Yates Data: Plant Yates AMA-R6

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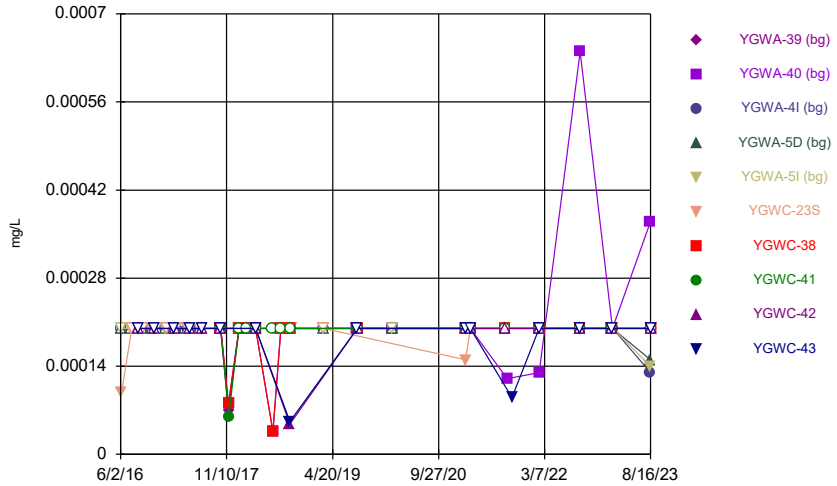
Hollow symbols indicate censored values.

Time Series



Constituent: Mercury Analysis Run 10/18/2023 8:29 AM
Plant Yates Data: Plant Yates AMA-R6

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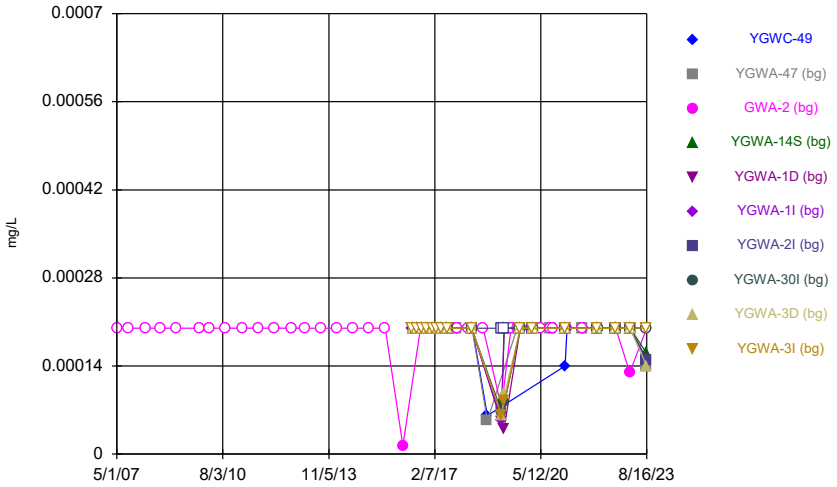
Hollow symbols indicate censored values.

Time Series



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Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.13 Software licensed to . UG
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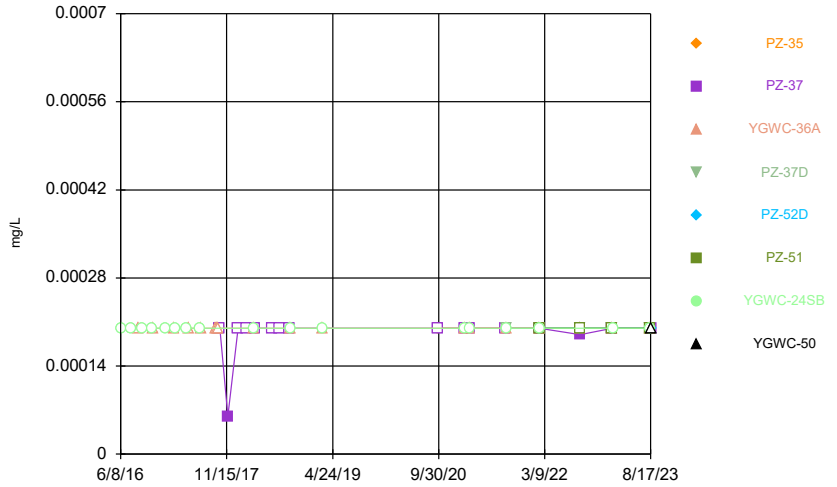
Time Series



Constituent: Mercury Analysis Run 10/18/2023 8:29 AM
Plant Yates Data: Plant Yates AMA-R6

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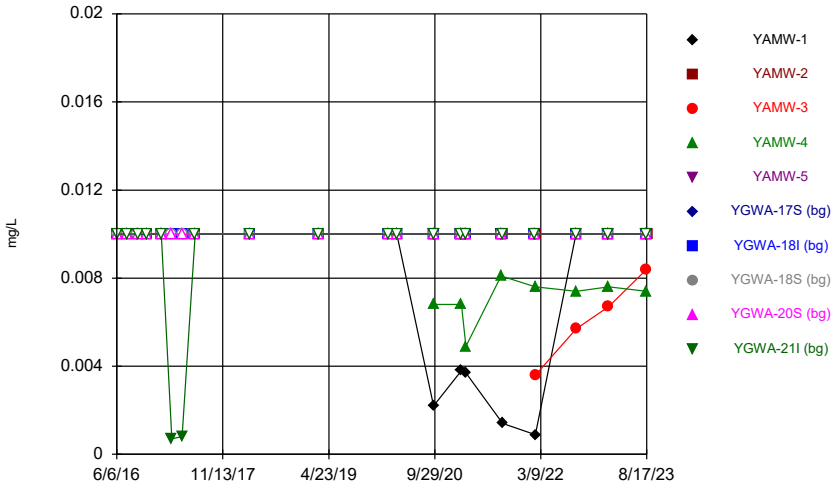
Hollow symbols indicate censored values.

Time Series



Constituent: Molybdenum Analysis Run 10/18/2023 8:29 AM
Plant Yates Data: Plant Yates AMA-R6

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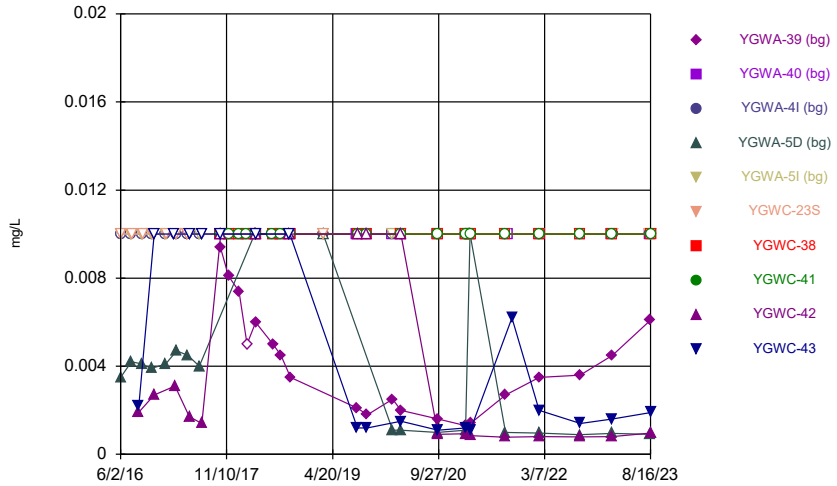
Time Series



Constituent: Molybdenum Analysis Run 10/18/2023 8:29 AM
Plant Yates Data: Plant Yates AMA-R6

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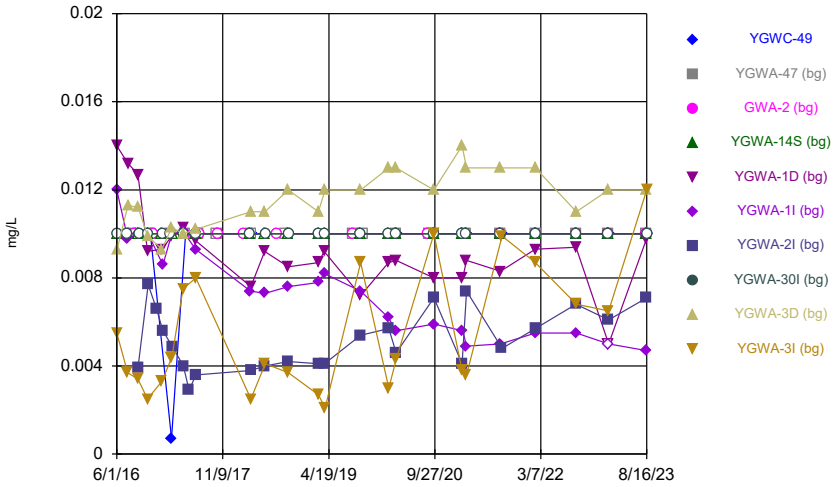
Time Series



Constituent: Molybdenum Analysis Run 10/18/2023 8:29 AM
Plant Yates Data: Plant Yates AMA-R6

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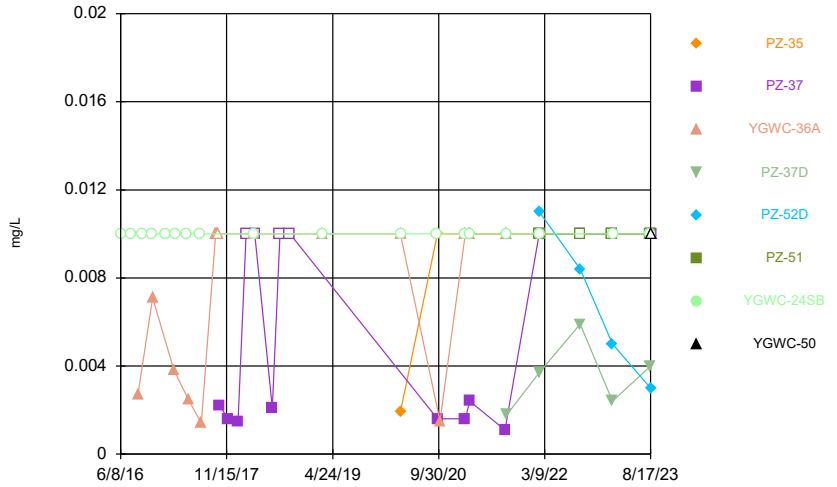
Time Series



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Plant Yates Data: Plant Yates AMA-R6

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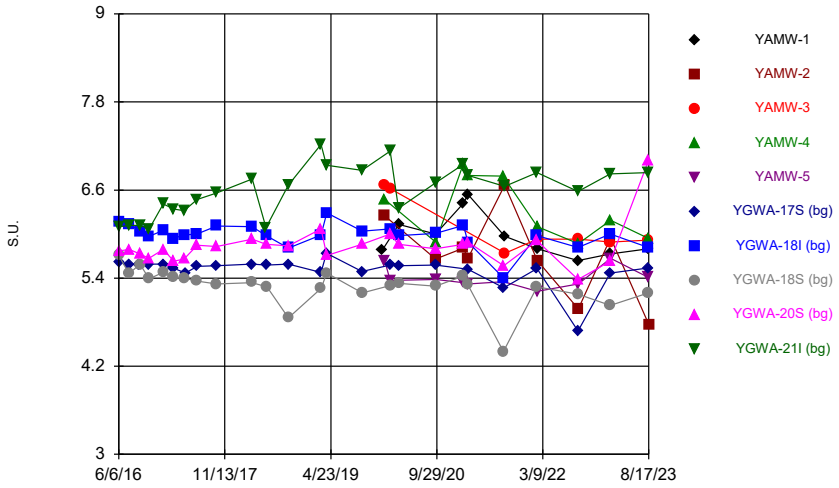
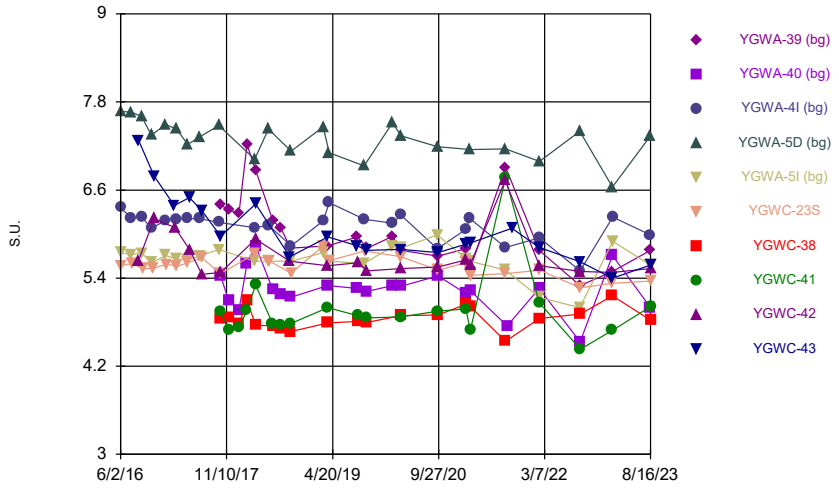
Time Series



Constituent: pH Analysis Run 10/18/2023 8:29 AM
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.13 Software licensed to . UG

Time Series



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Plant Yates Data: Plant Yates AMA-R6

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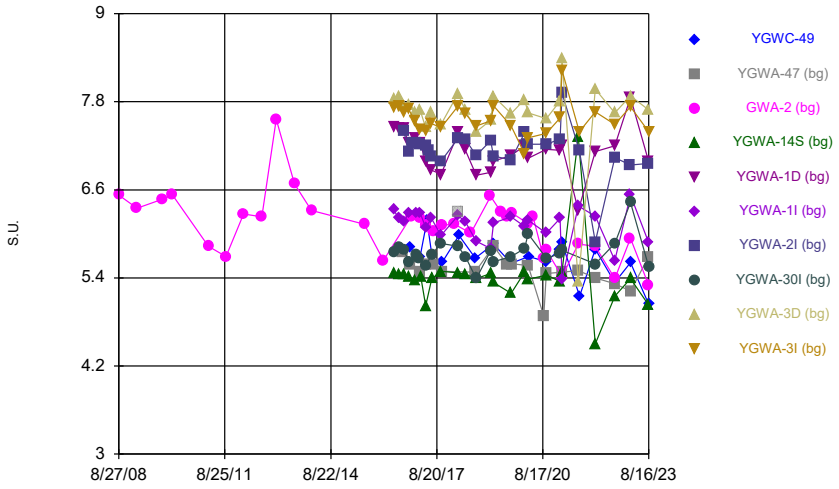
Time Series



Constituent: pH Analysis Run 10/18/2023 8:30 AM
Plant Yates Data: Plant Yates AMA-R6

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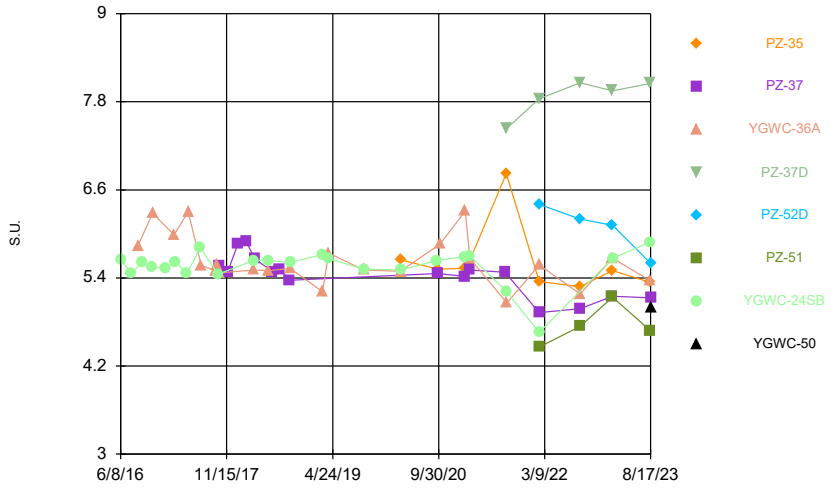
Time Series



Constituent: pH Analysis Run 10/18/2023 8:30 AM
Plant Yates Data: Plant Yates AMA-R6

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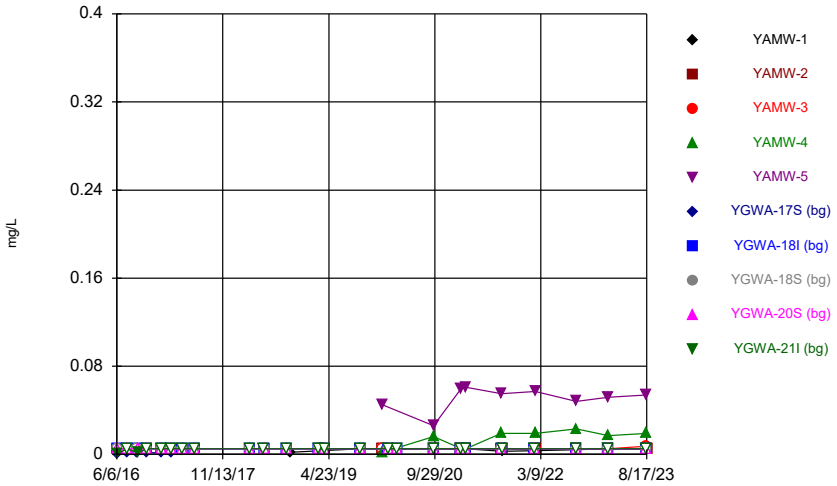
Hollow symbols indicate censored values.

Time Series



Constituent: Selenium Analysis Run 10/18/2023 8:30 AM
Plant Yates Data: Plant Yates AMA-R6

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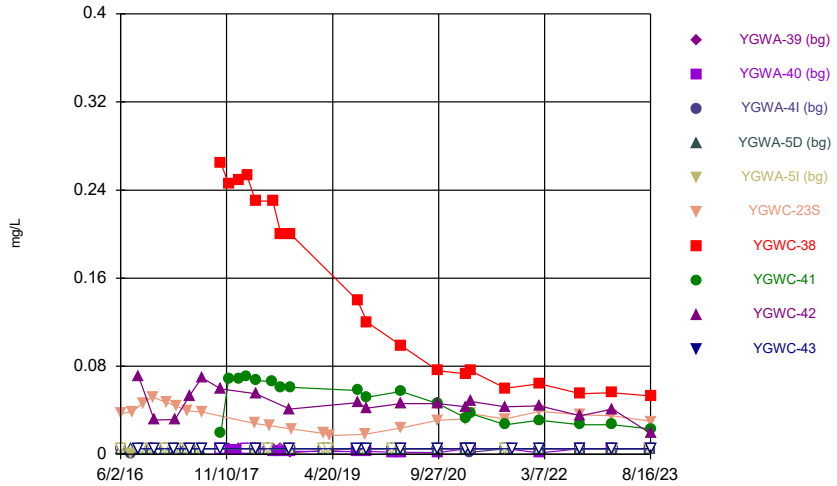
Hollow symbols indicate censored values.

Time Series



Constituent: Selenium Analysis Run 10/18/2023 8:30 AM
Plant Yates Data: Plant Yates AMA-R6

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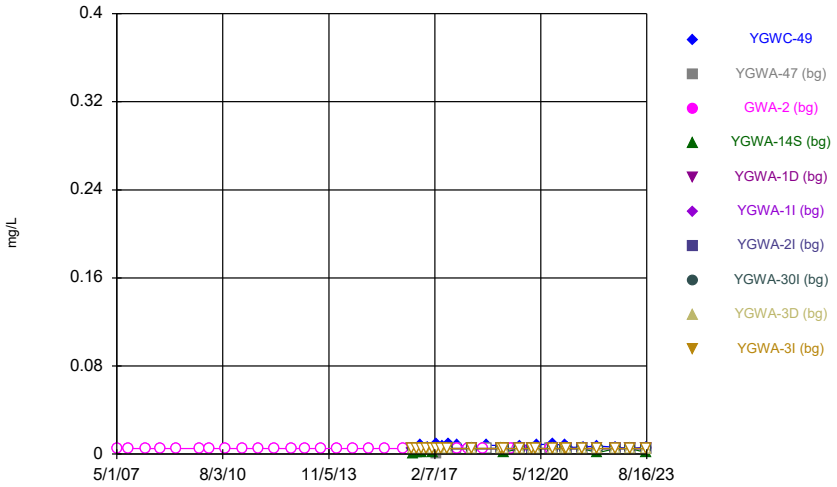
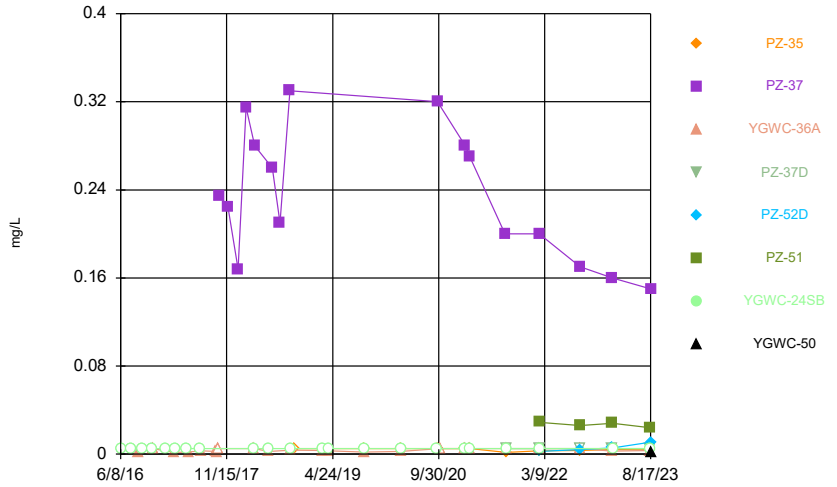
Time Series



Constituent: Selenium Analysis Run 10/18/2023 8:30 AM
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.13 Software licensed to . UG
Hollow symbols indicate censored values.

Time Series



Constituent: Selenium Analysis Run 10/18/2023 8:30 AM
Plant Yates Data: Plant Yates AMA-R6

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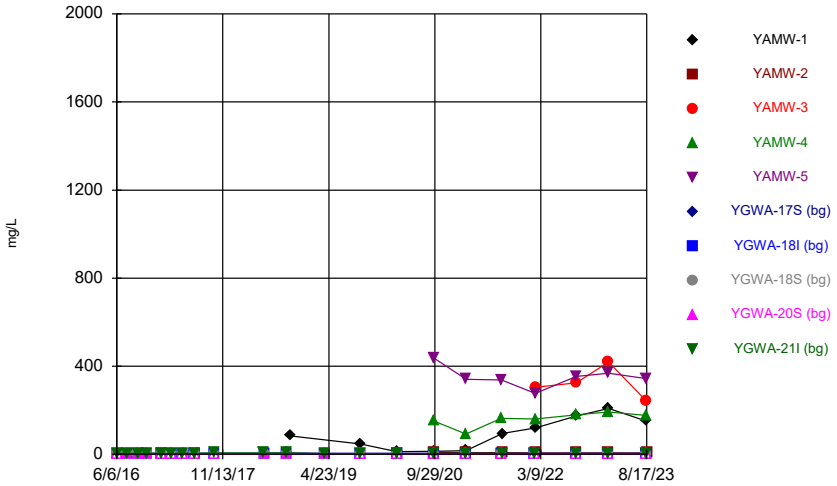
Time Series



Constituent: Sulfate Analysis Run 10/18/2023 8:30 AM
Plant Yates Data: Plant Yates AMA-R6

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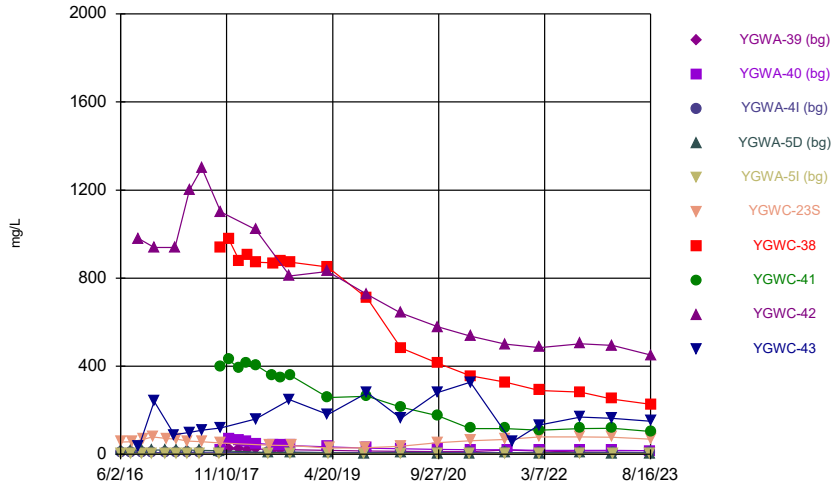
Time Series



Constituent: Sulfate Analysis Run 10/18/2023 8:30 AM
Plant Yates Data: Plant Yates AMA-R6

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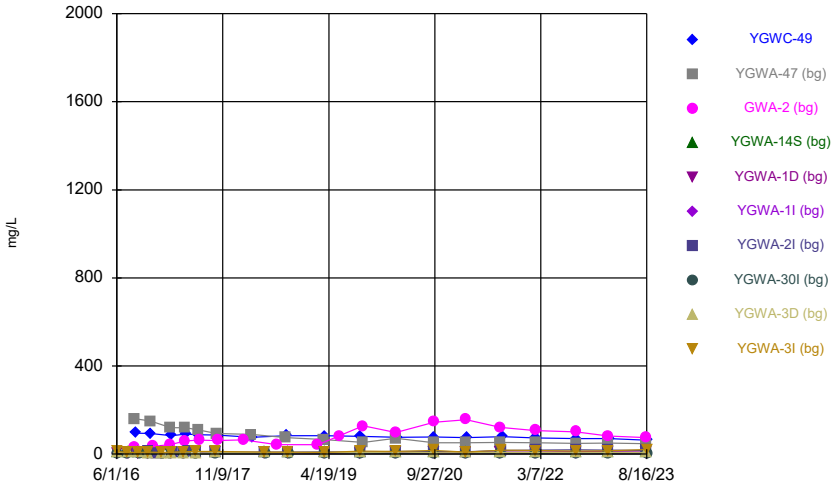
Hollow symbols indicate censored values.

Time Series



Constituent: Sulfate Analysis Run 10/18/2023 8:30 AM
Plant Yates Data: Plant Yates AMA-R6

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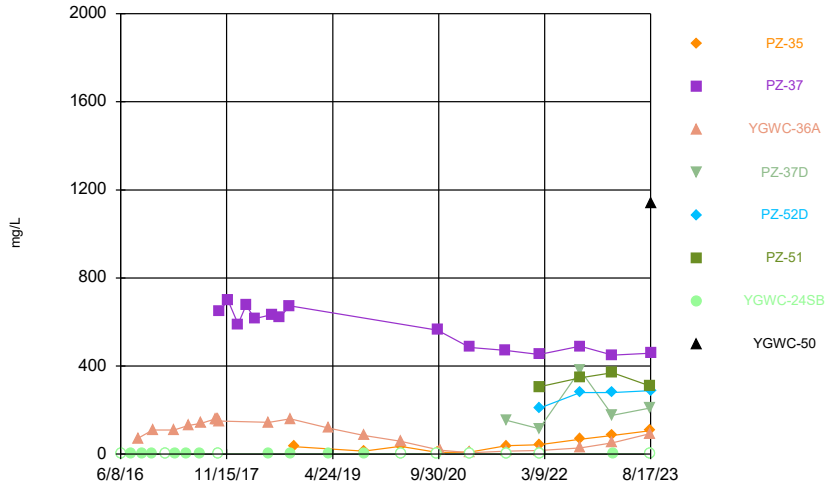
Hollow symbols indicate censored values.

Time Series



Constituent: Sulfate Analysis Run 10/18/2023 8:30 AM
Plant Yates Data: Plant Yates AMA-R6

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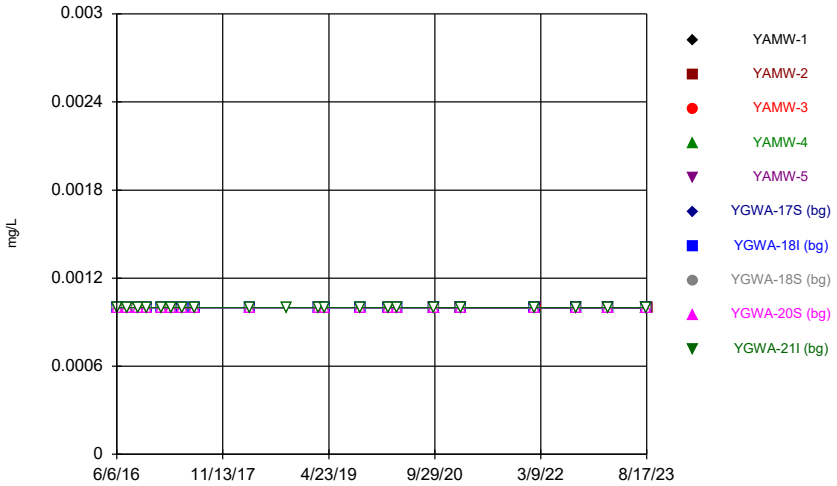
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Analysis Run 10/18/2023 8:30 AM
Plant Yates Data: Plant Yates AMA-R6

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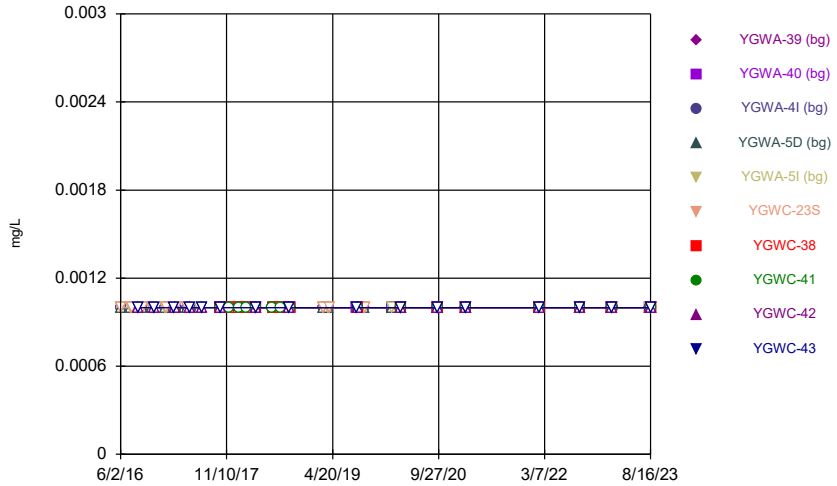
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Analysis Run 10/18/2023 8:30 AM
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.13 Software licensed to . UG
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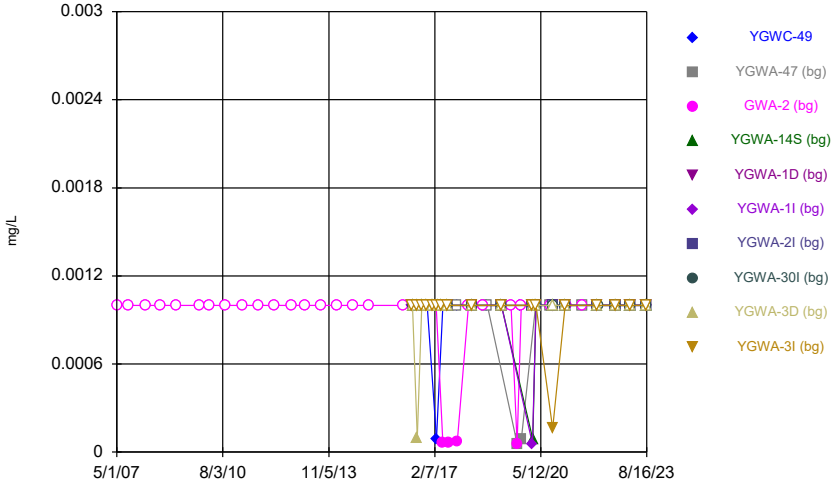
Time Series



Constituent: Thallium Analysis Run 10/18/2023 8:30 AM
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.13 Software licensed to . UG
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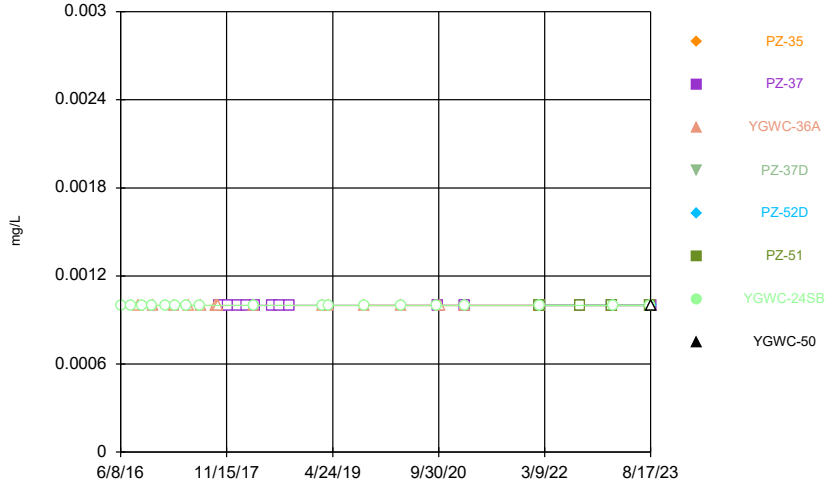
Time Series



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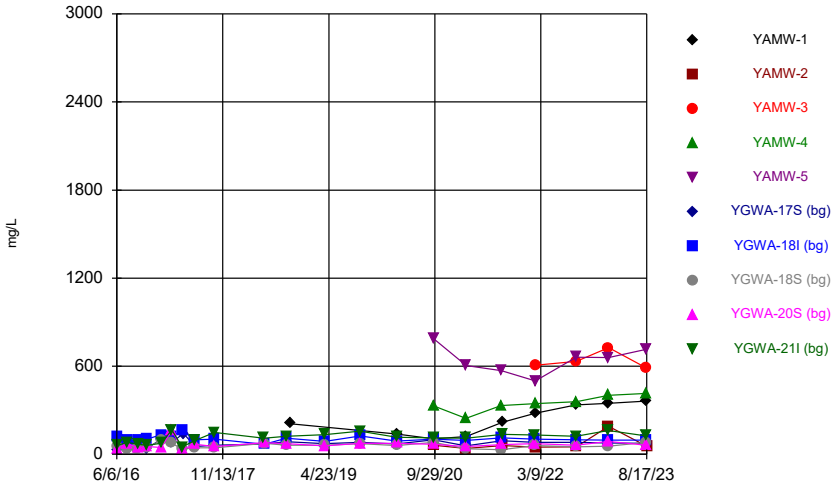
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.13 Software licensed to . UG

Time Series



Constituent: Total Dissolved Solids Analysis Run 10/18/2023 8:30 AM

Plant Yates Data: Plant Yates AMA-R6

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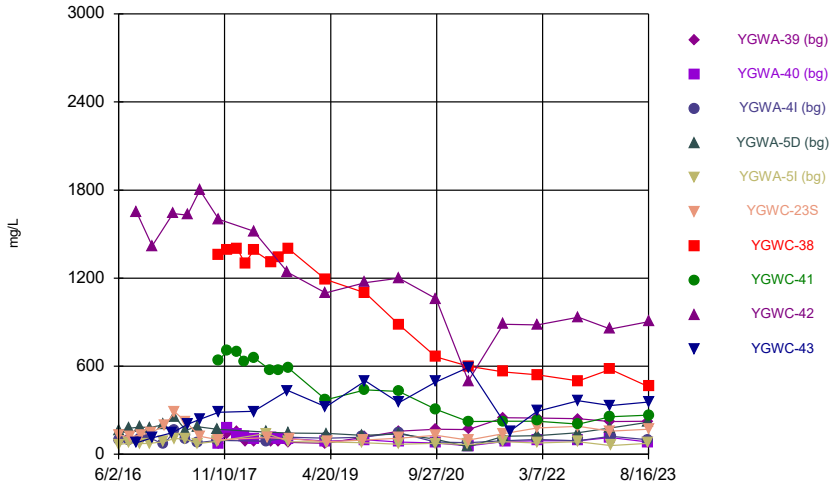
Time Series



Constituent: Total Dissolved Solids Analysis Run 10/18/2023 8:30 AM

Plant Yates Data: Plant Yates AMA-R6

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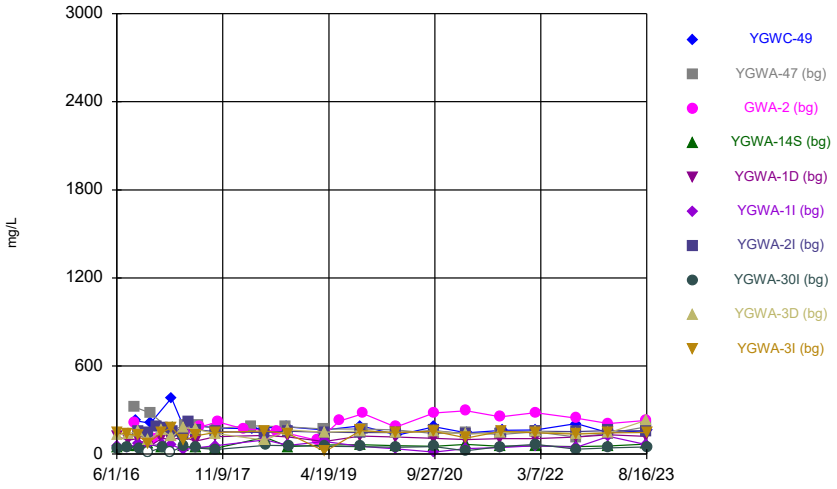
Hollow symbols indicate censored values.

Time Series



Constituent: Total Dissolved Solids Analysis Run 10/18/2023 8:30 AM

Plant Yates Data: Plant Yates AMA-R6

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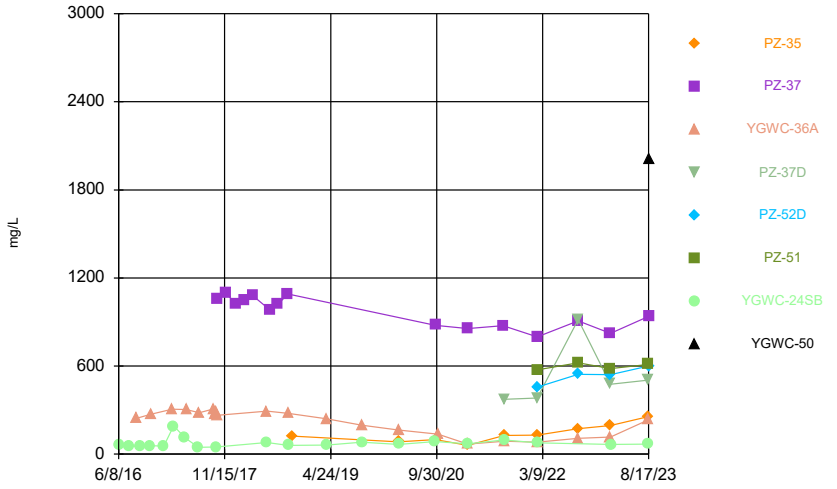
Time Series



Constituent: Total Dissolved Solids Analysis Run 10/18/2023 8:30 AM

Plant Yates Data: Plant Yates AMA-R6

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/18/2023 8:35 AM

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							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/18/2023 8:35 AM

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	

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/18/2023 8:35 AM

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	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/18/2023 8:35 AM

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	

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/18/2023 8:35 AM

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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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							

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-21I (bg)
2/9/2023	
8/15/2023	<0.005
8/16/2023	
8/17/2023	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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							

Time Series

Constituent: Barium (mg/L) Analysis Run 10/18/2023 8:35 AM

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	

Time Series

Constituent: Barium (mg/L) Analysis Run 10/18/2023 8:35 AM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-21I (bg)
2/9/2023	
8/15/2023	0.0075
8/16/2023	
8/17/2023	

Time Series

Constituent: Barium (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

Time Series

Constituent: Barium (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

Time Series

Constituent: Barium (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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	

Time Series

Constituent: Barium (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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)

Time Series

Constituent: Barium (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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)							

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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)

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/18/2023 8:35 AM

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	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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							

Time Series

Constituent: Boron (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-21I (bg)
8/15/2023	0.046 (J)
8/16/2023	
8/17/2023	

Time Series

Constituent: Boron (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

Time Series

Constituent: Boron (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

Time Series

Constituent: Boron (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 10/18/2023 8:35 AM

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	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 10/18/2023 8:35 AM

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

Time Series

Constituent: Boron (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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							

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-21I (bg)
2/9/2023	
8/15/2023	<0.0005
8/16/2023	
8/17/2023	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/18/2023 8:35 AM

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	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/18/2023 8:35 AM

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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/18/2023 8:35 AM

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	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/18/2023 8:35 AM

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	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/18/2023 8:35 AM

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

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/18/2023 8:35 AM

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			<0.0005					
9/20/2016							<0.0005	
11/8/2016							<0.0005	
11/14/2016			9E-05 (J)					
1/17/2017							<0.0005	
2/28/2017			0.0001 (J)					
3/8/2017							<0.0005	
5/2/2017							<0.0005	
5/9/2017			0.0002 (J)					
7/7/2017							<0.0005	
7/13/2017			0.0002 (J)					
9/22/2017			0.0002 (J)					
9/29/2017			0.0002 (J)					
10/6/2017			0.0002 (J)					
10/12/2017		0.0002 (J)						
11/21/2017		0.0002 (J)						
1/11/2018		0.0004 (J)						
2/20/2018		<0.001						
3/30/2018			<0.0005				<0.0005	
4/3/2018		<0.001						
6/12/2018							<0.0005	
6/13/2018			0.00019 (J)					
6/29/2018		0.00099 (J)						
8/6/2018		0.00063 (J)						
9/24/2018		0.00069 (J)						
9/26/2018			0.00018 (J)				<0.0005	
10/16/2018	<0.0005							
3/5/2019							<0.0005	
3/6/2019			0.00015 (J)					
4/4/2019			0.00019 (J)				<0.0005	
9/26/2019	<0.0005		0.00017 (J)				<0.0005	
3/25/2020	0.00016 (J)		0.00019 (J)					
3/26/2020							<0.0005	
9/23/2020							<0.0005	
9/24/2020	<0.0005							
9/25/2020		0.00039 (J)						
10/7/2020			0.00012 (J)					
2/9/2021		0.00042 (J)					<0.0005	
2/10/2021	<0.0005		<0.0005					
3/3/2021							<0.0005	
3/4/2021	<0.0005	0.00028 (J)	<0.0005					
8/25/2021		0.00094						
9/1/2021	<0.0005						<0.0005	
9/3/2021			<0.0005	<0.0005				
2/10/2022	<0.0005	0.00093				0.0019	<0.0005	
2/11/2022			<0.0005	<0.0005	<0.0005			
8/31/2022	0.00011 (J)							
9/1/2022		0.0009	<0.0005	<0.0005	<0.0005	0.0017		
2/8/2023		0.00076		<0.0005	<0.0005			
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 10/18/2023 8:35 AM

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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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							

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

Plant Yates Data: Plant Yates AMA-R6

YGWA-21I (bg)

8/17/2023

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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	

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/18/2023 8:35 AM

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: Chloride (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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	

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/18/2023 8:35 AM

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: Chromium (mg/L) Analysis Run 10/18/2023 8:35 AM

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							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/18/2023 8:35 AM

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	

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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	

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/18/2023 8:35 AM

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

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/18/2023 8:35 AM

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			<0.025

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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)

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/18/2023 8:35 AM

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	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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)							

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-21I (bg)
2/9/2023	
8/15/2023	1.68
8/16/2023	
8/17/2023	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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)	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
8/16/2023	1.87

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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							

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/18/2023 8:35 AM

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	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/18/2023 8:35 AM

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

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 10/18/2023 8:35 AM

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							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 10/18/2023 8:35 AM

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	

Time Series

Constituent: Lead (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

Time Series

Constituent: Lead (mg/L) Analysis Run 10/18/2023 8:35 AM

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	

Time Series

Constituent: Lead (mg/L) Analysis Run 10/18/2023 8:35 AM

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

Time Series

Constituent: Lead (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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	

Time Series

Constituent: Lead (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 10/18/2023 8:35 AM

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)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/18/2023 8:35 AM

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							
12/9/2021			0.042						
2/9/2022						<0.03	0.0032 (J)	0.0015 (J)	0.00082 (J)
2/10/2022	0.014 (J)	<0.03	0.054	0.036	0.015 (J)				
8/30/2022						<0.03	0.0036 (J)	0.0014 (J)	
8/31/2022	0.021 (J)								<0.03
9/1/2022		<0.03	0.041	0.032	0.013 (J)				
2/7/2023						<0.03	0.003 (J)	0.0012 (J)	<0.03

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/18/2023 8:35 AM

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		<0.03		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							

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/18/2023 8:35 AM

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)
12/9/2021	
2/9/2022	0.0061 (J)
2/10/2022	
8/30/2022	0.0079 (J)
8/31/2022	
9/1/2022	
2/7/2023	0.0059 (J)

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/18/2023 8:35 AM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-21I (bg)
2/8/2023	
2/9/2023	
8/15/2023	0.0062 (J)
8/16/2023	
8/17/2023	

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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)

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
2/9/2023	
8/15/2023	
8/16/2023	0.025 (J)

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/18/2023 8:35 AM

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							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/18/2023 8:35 AM

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	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/18/2023 8:35 AM

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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/18/2023 8:35 AM

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							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/18/2023 8:35 AM

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	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/18/2023 8:35 AM

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	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/18/2023 8:35 AM

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)

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
8/15/2023	
8/16/2023	0.012

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/18/2023 8:35 AM

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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: pH (S.U.) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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							

Time Series

Constituent: pH (S.U.) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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	

Time Series

Constituent: pH (S.U.) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

Time Series

Constituent: pH (S.U.) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

Time Series

Constituent: pH (S.U.) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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	

Time Series

Constituent: pH (S.U.) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

Time Series

Constituent: pH (S.U.) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/18/2023 8:35 AM

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	

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/18/2023 8:35 AM

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	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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)	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/18/2023 8:35 AM

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: Thallium (mg/L) Analysis Run 10/18/2023 8:35 AM

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							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/18/2023 8:35 AM

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	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/18/2023 8:35 AM

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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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	

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/18/2023 8:35 AM

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 10/18/2023 8:35 AM

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

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/18/2023 8:35 AM

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

FIGURE B.

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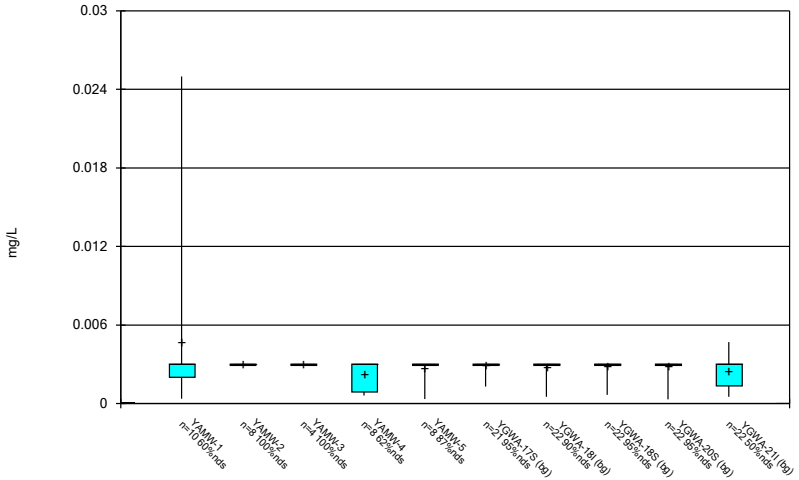
Box & Whiskers Plot



Constituent: Antimony Analysis Run 10/18/2023 8:37 AM
Plant Yates Data: Plant Yates AMA-R6

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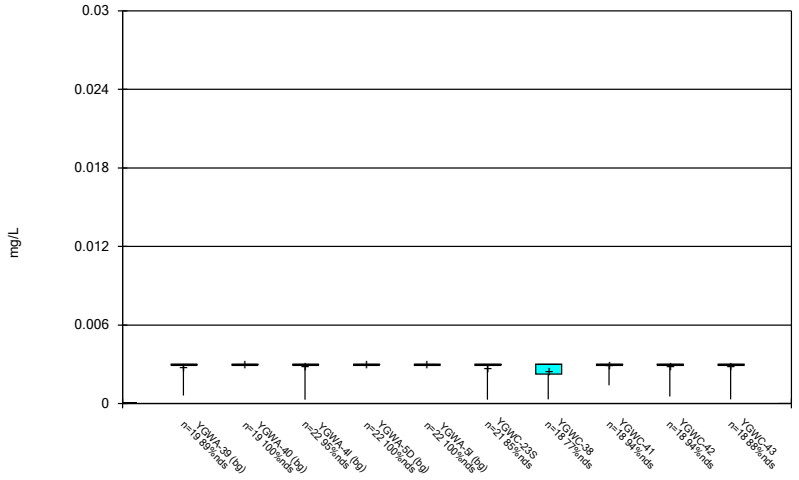
Box & Whiskers Plot



Constituent: Antimony Analysis Run 10/18/2023 8:37 AM
Plant Yates Data: Plant Yates AMA-R6

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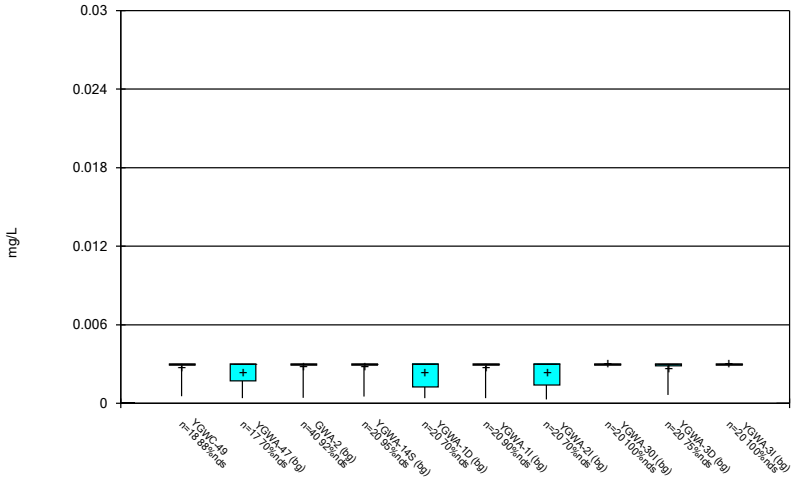
Box & Whiskers Plot



Constituent: Antimony Analysis Run 10/18/2023 8:37 AM
Plant Yates Data: Plant Yates AMA-R6

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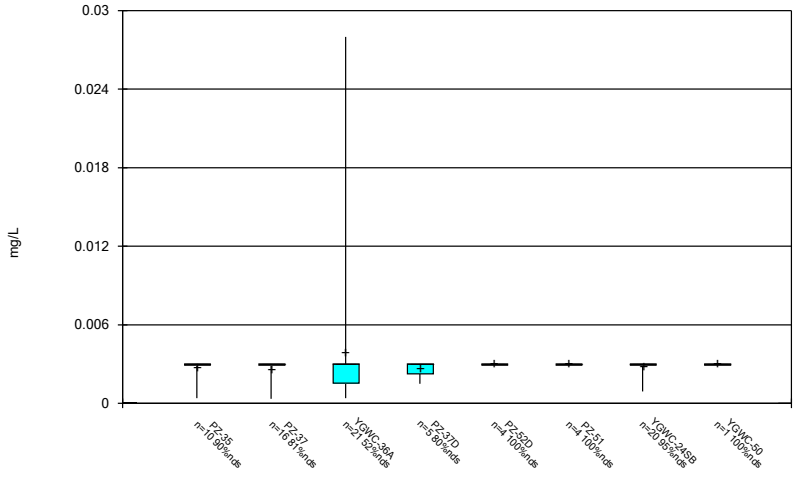
Box & Whiskers Plot



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Plant Yates Data: Plant Yates AMA-R6

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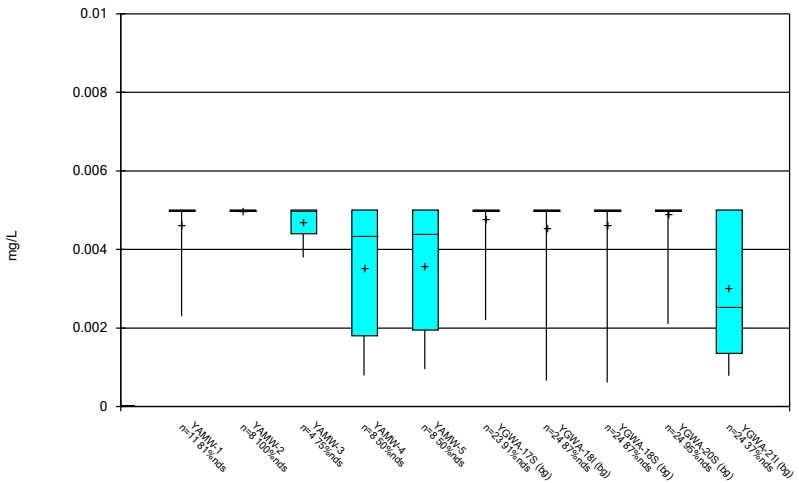
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 10/18/2023 8:37 AM
Plant Yates Data: Plant Yates AMA-R6

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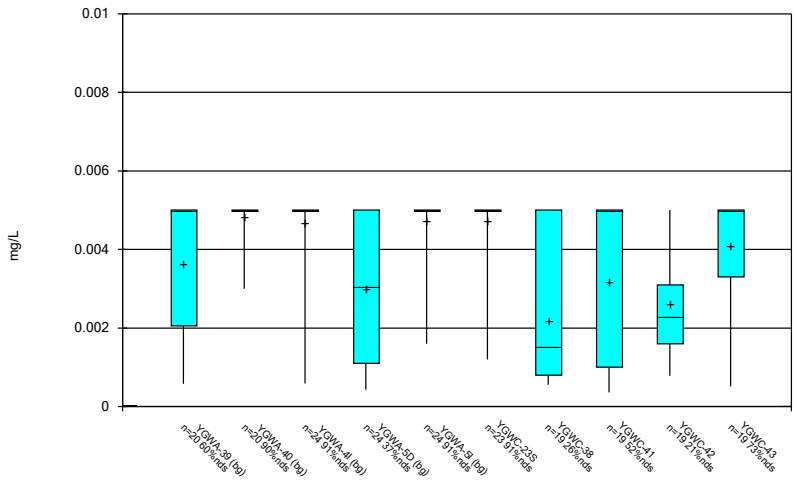
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 10/18/2023 8:37 AM
Plant Yates Data: Plant Yates AMA-R6

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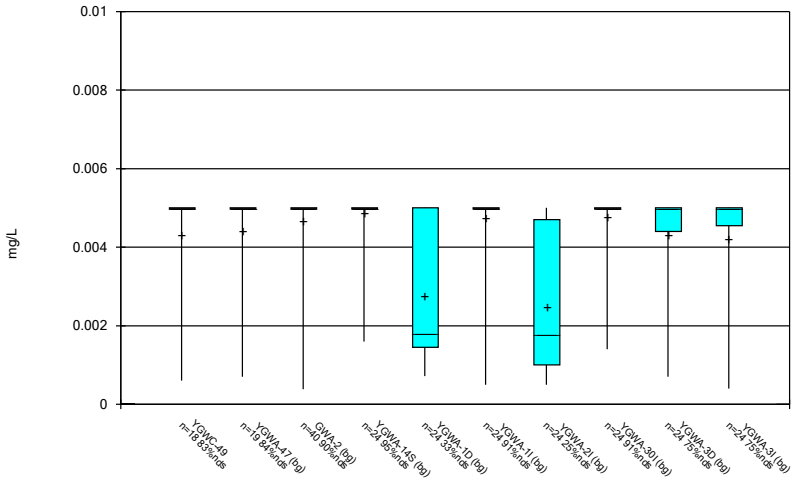
Box & Whiskers Plot



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Plant Yates Data: Plant Yates AMA-R6

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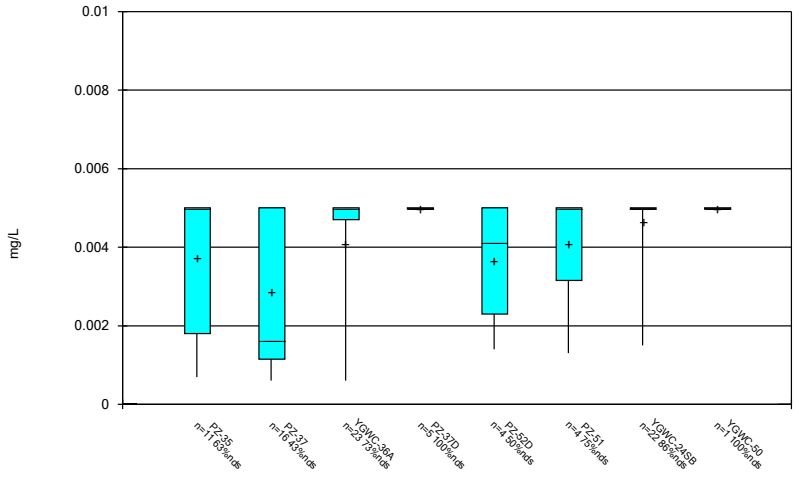
Box & Whiskers Plot



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Plant Yates Data: Plant Yates AMA-R6

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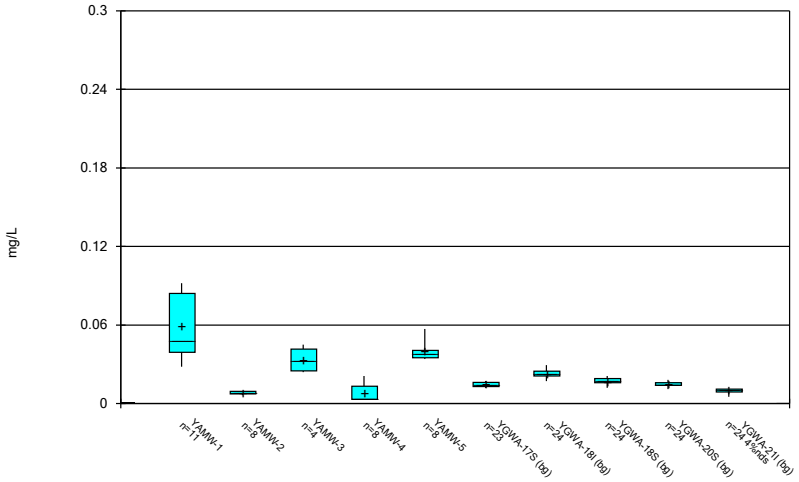
Box & Whiskers Plot



Constituent: Barium Analysis Run 10/18/2023 8:37 AM
Plant Yates Data: Plant Yates AMA-R6

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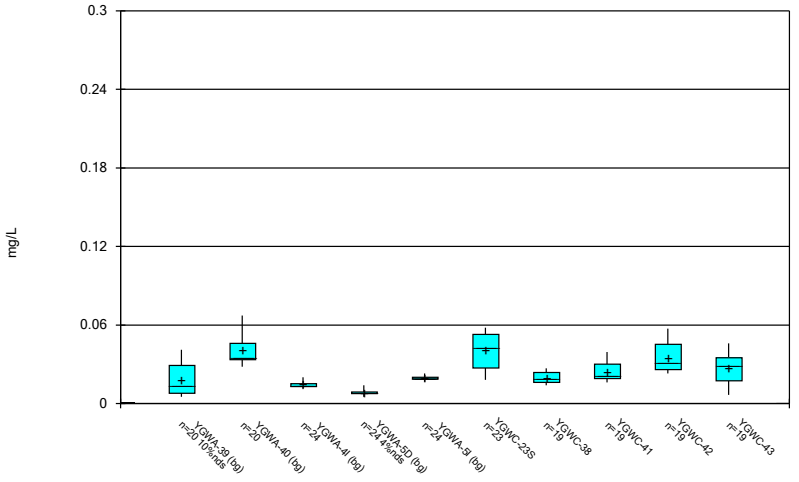
Box & Whiskers Plot



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Plant Yates Data: Plant Yates AMA-R6

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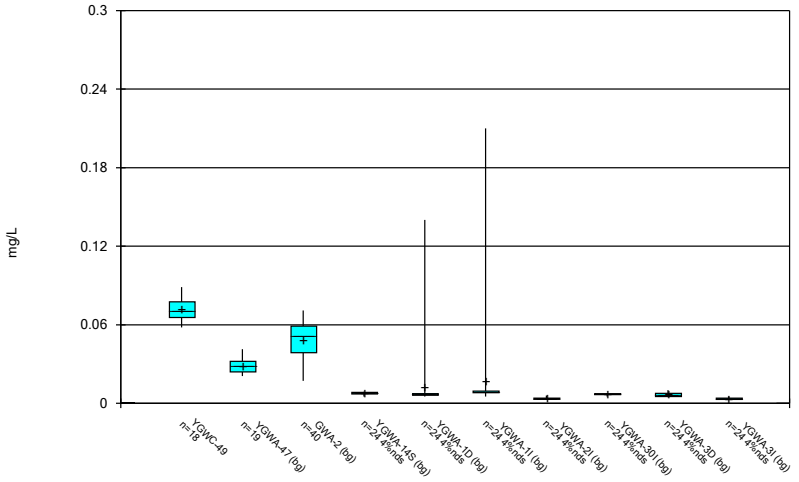
Box & Whiskers Plot



Constituent: Barium Analysis Run 10/18/2023 8:37 AM
Plant Yates Data: Plant Yates AMA-R6

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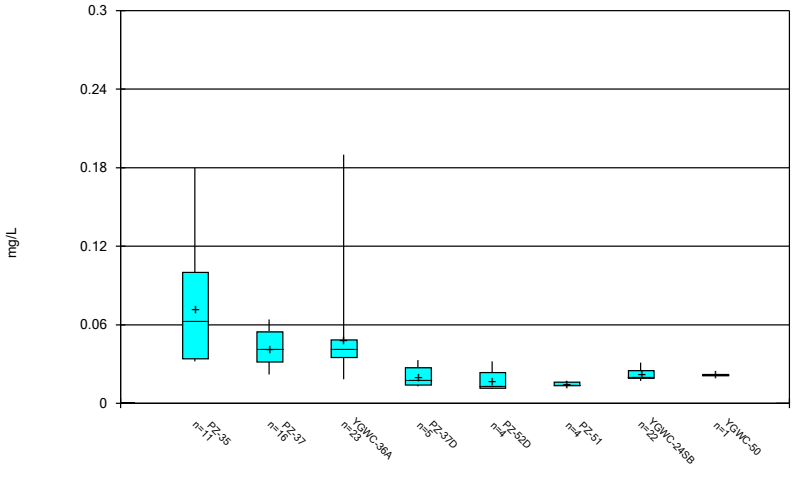
Box & Whiskers Plot



Constituent: Barium Analysis Run 10/18/2023 8:37 AM
Plant Yates Data: Plant Yates AMA-R6

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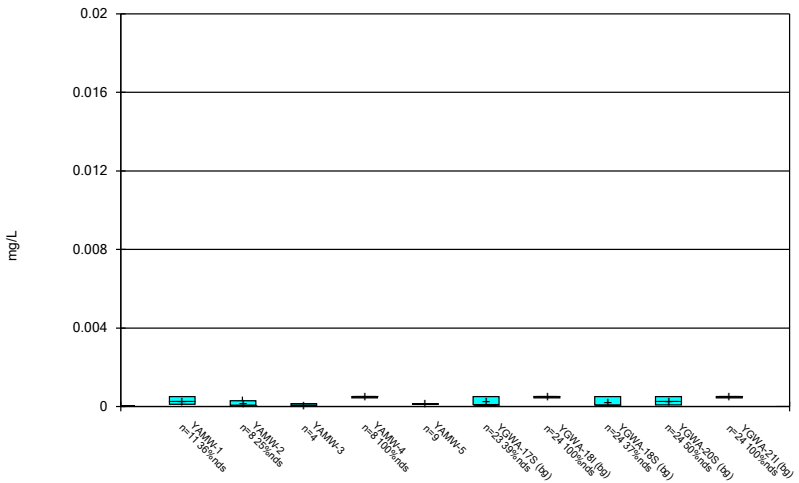
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 10/18/2023 8:37 AM
Plant Yates Data: Plant Yates AMA-R6

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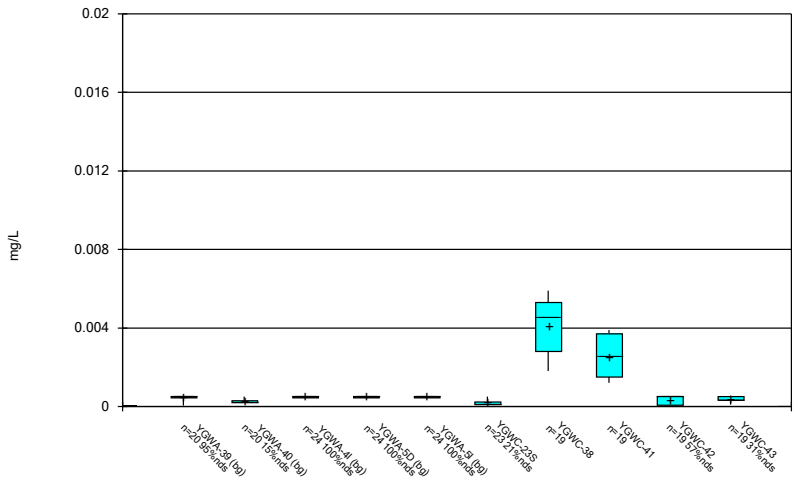
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 10/18/2023 8:37 AM
Plant Yates Data: Plant Yates AMA-R6

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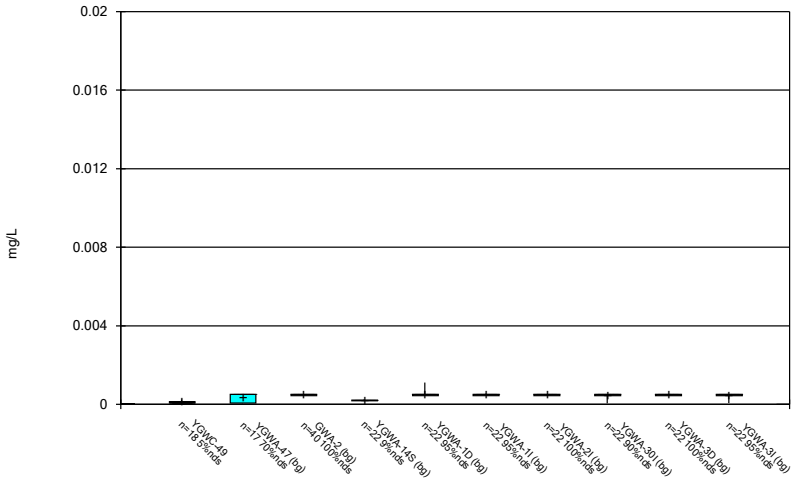
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 10/18/2023 8:37 AM
Plant Yates Data: Plant Yates AMA-R6

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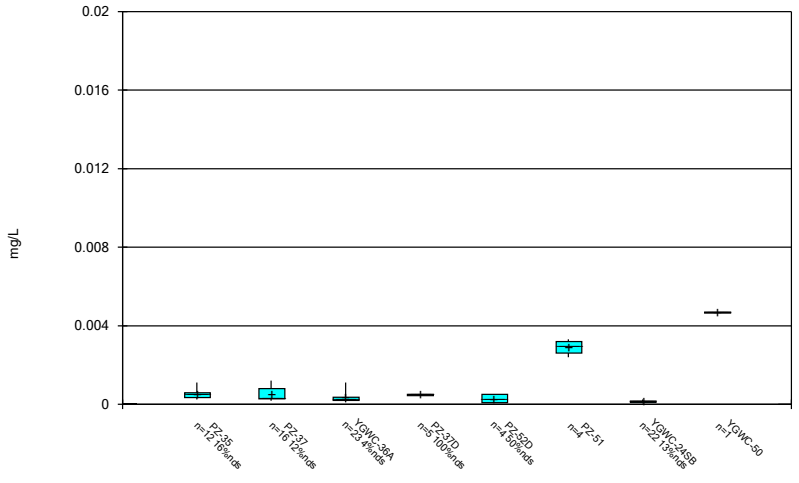
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 10/18/2023 8:37 AM
Plant Yates Data: Plant Yates AMA-R6

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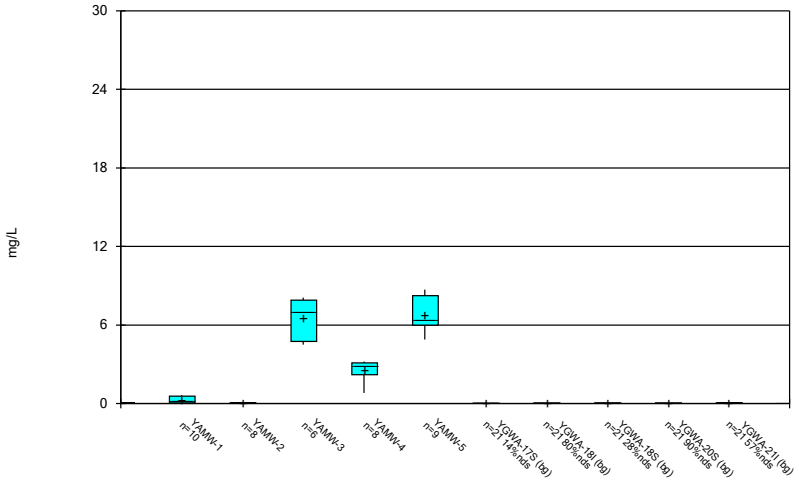
Box & Whiskers Plot



Constituent: Boron Analysis Run 10/18/2023 8:37 AM
Plant Yates Data: Plant Yates AMA-R6

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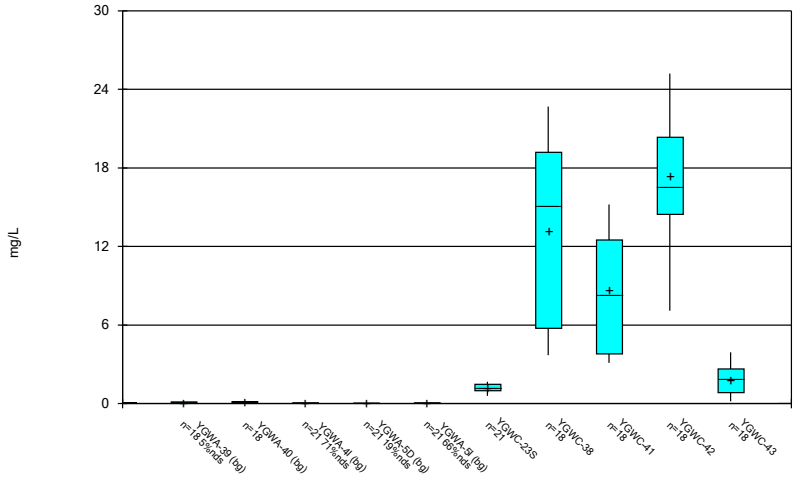
Box & Whiskers Plot



Constituent: Boron Analysis Run 10/18/2023 8:37 AM
Plant Yates Data: Plant Yates AMA-R6

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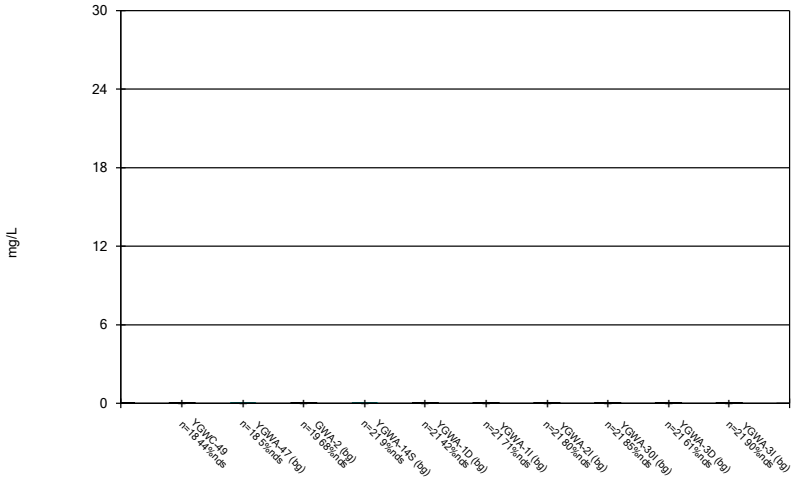

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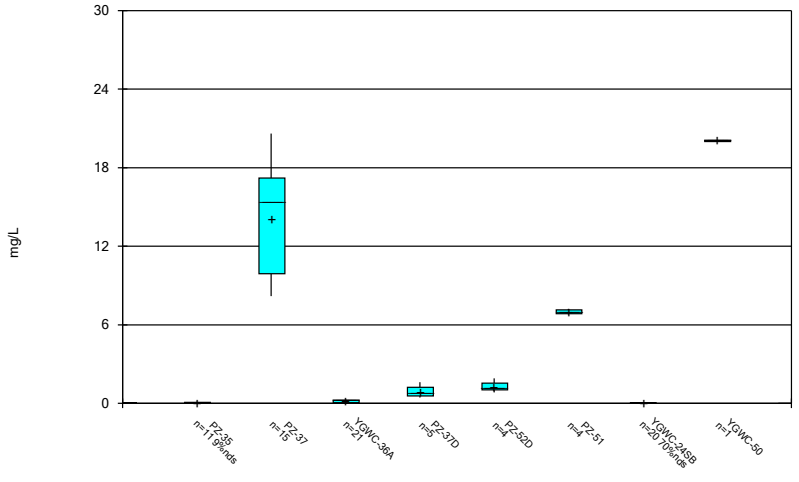
Box & Whiskers Plot



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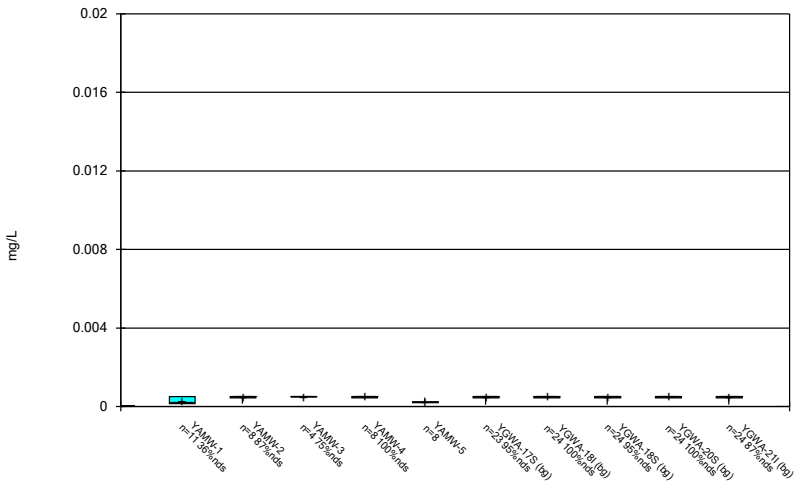

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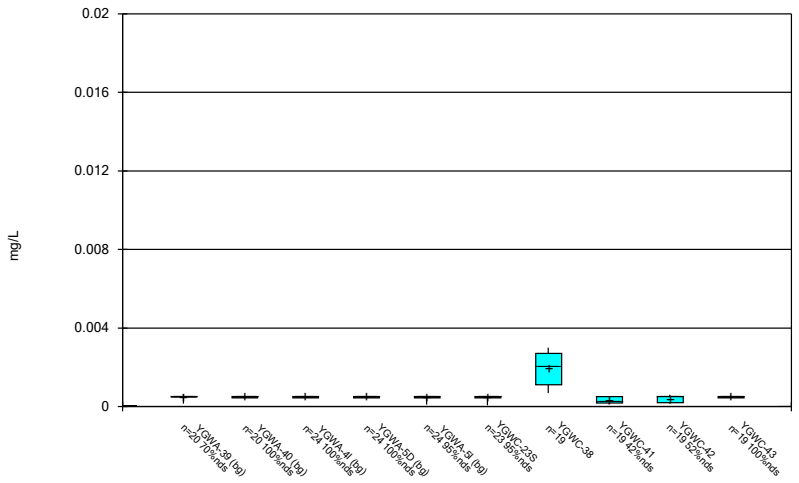

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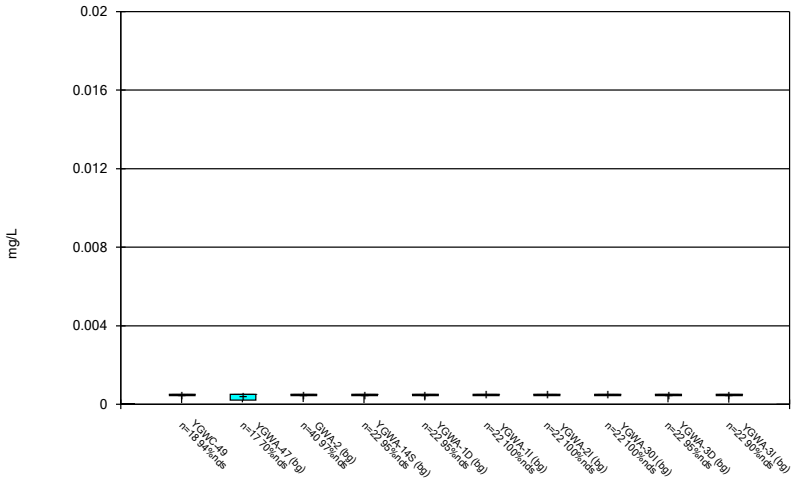

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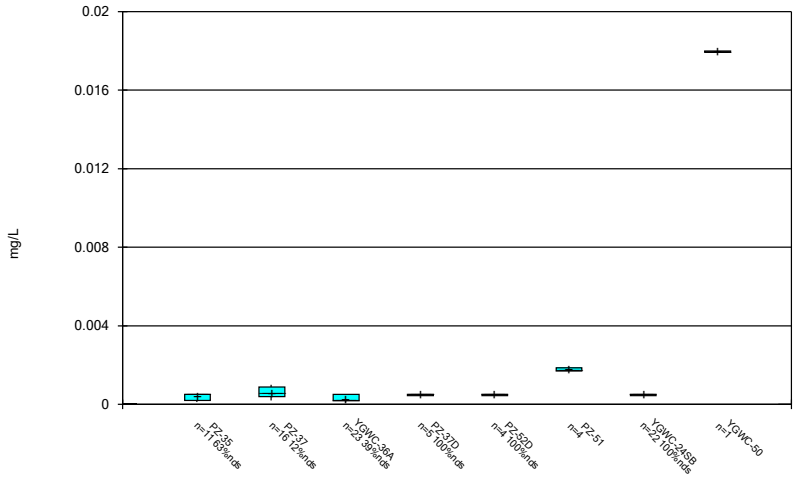

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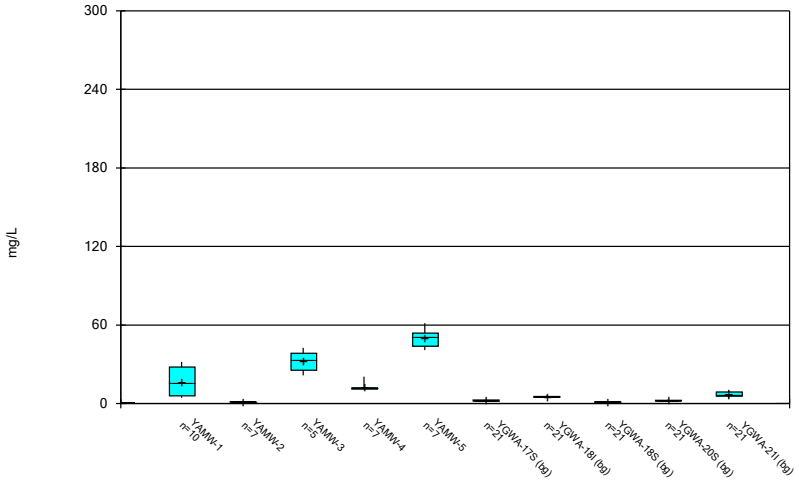

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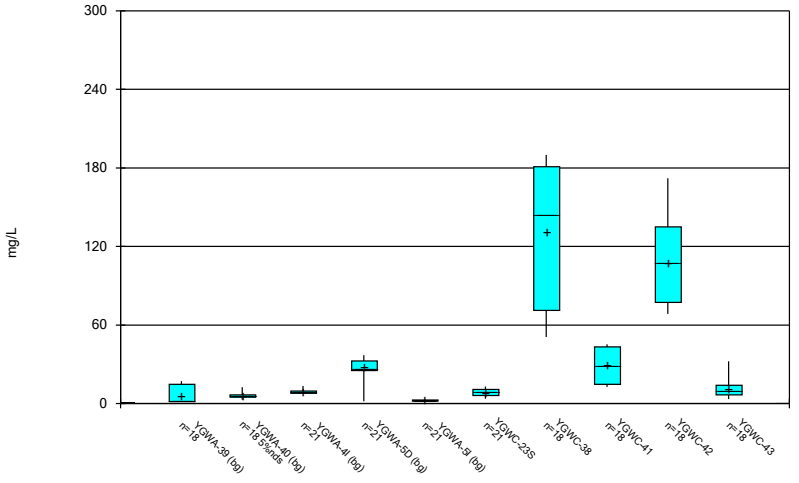

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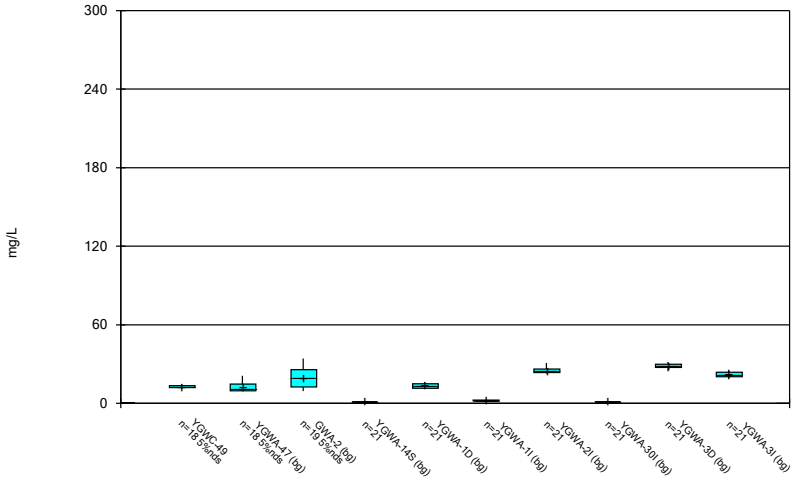

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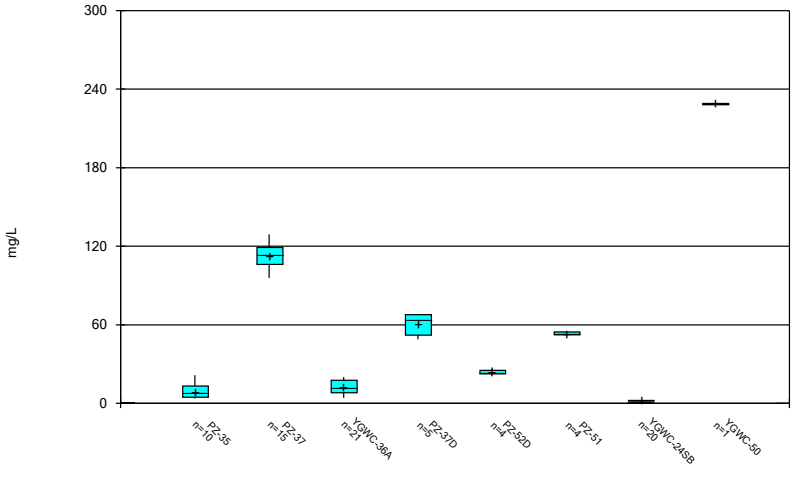

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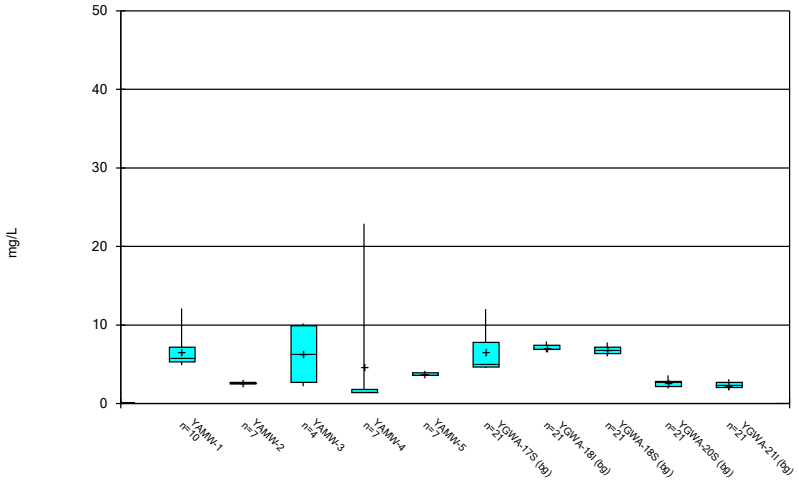

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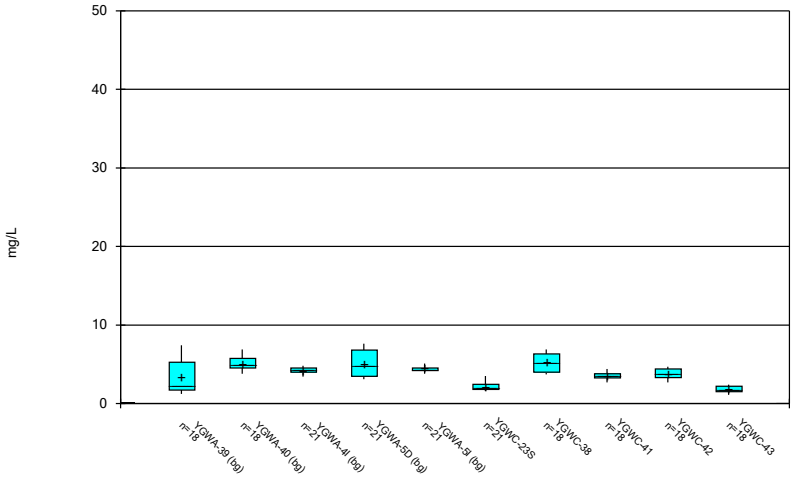

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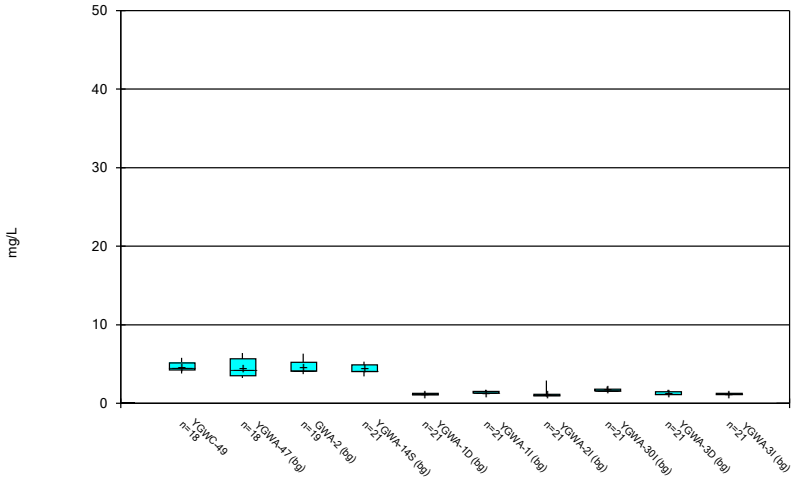

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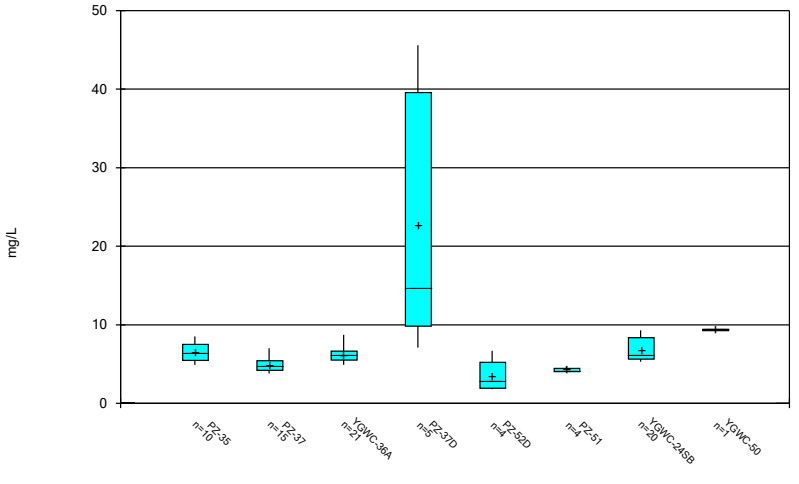

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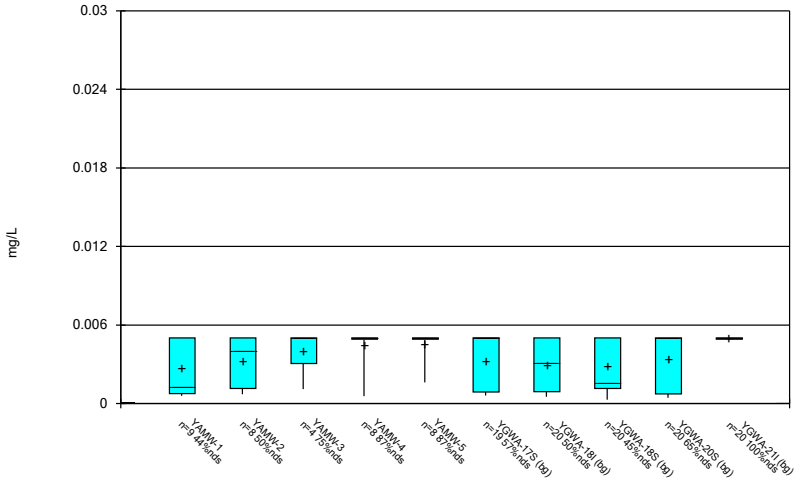

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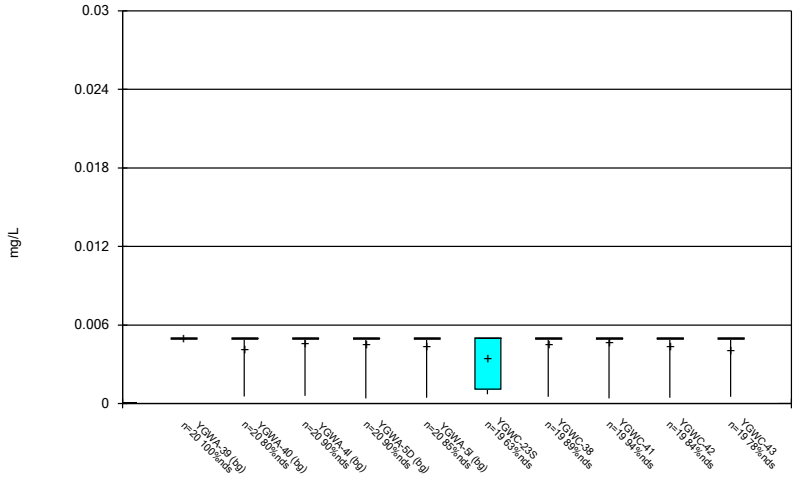

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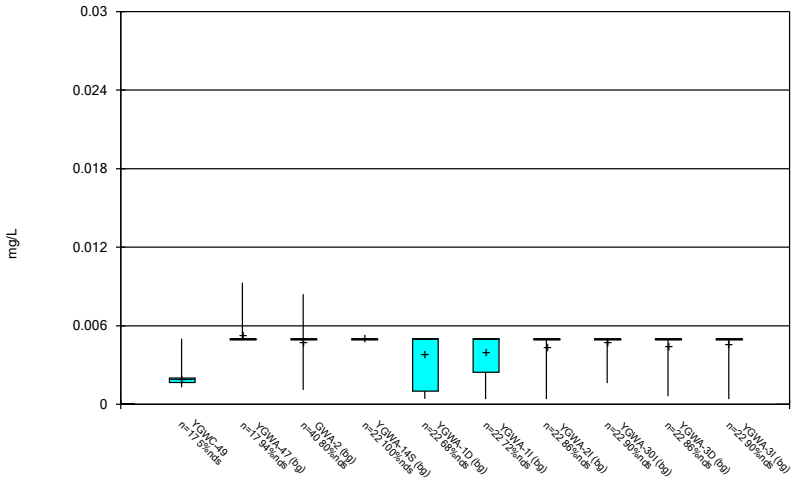

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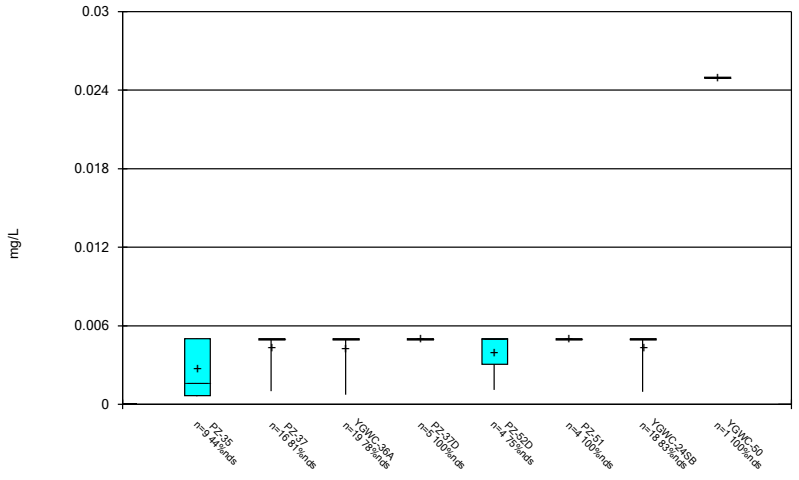

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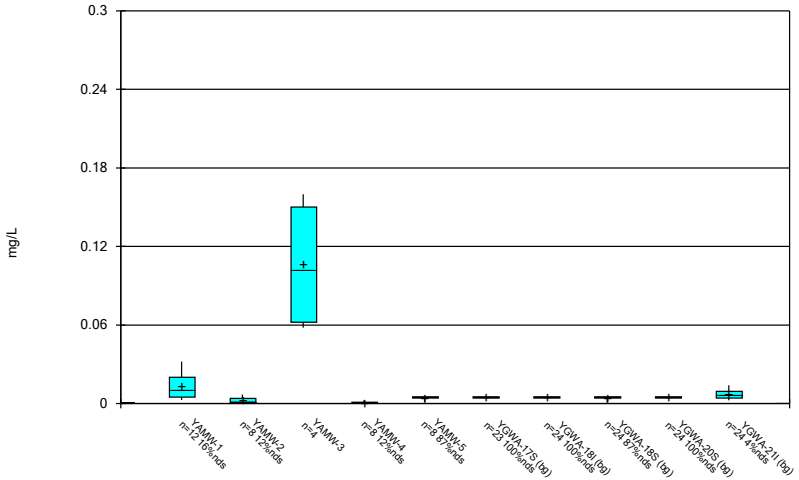

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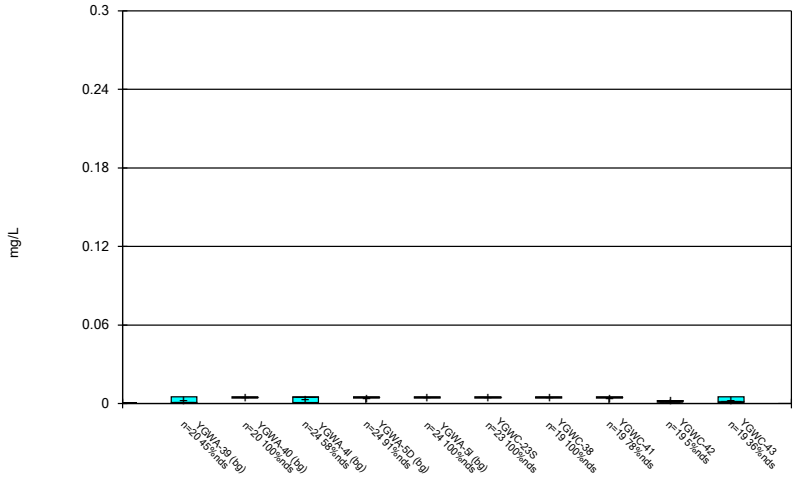

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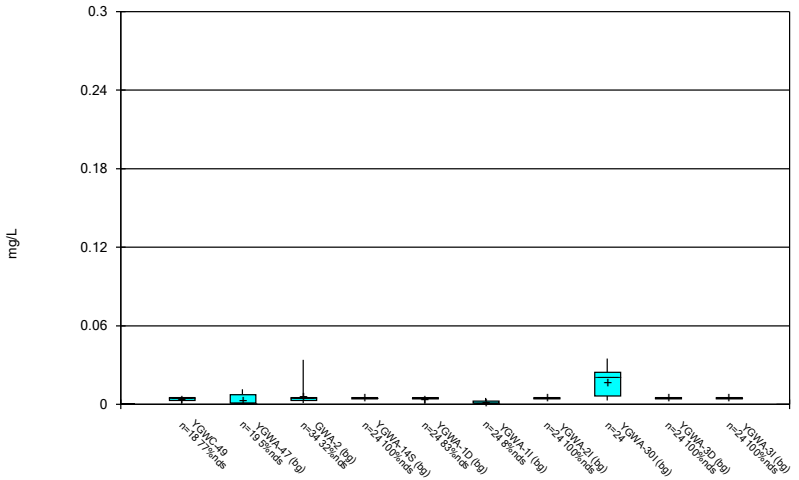

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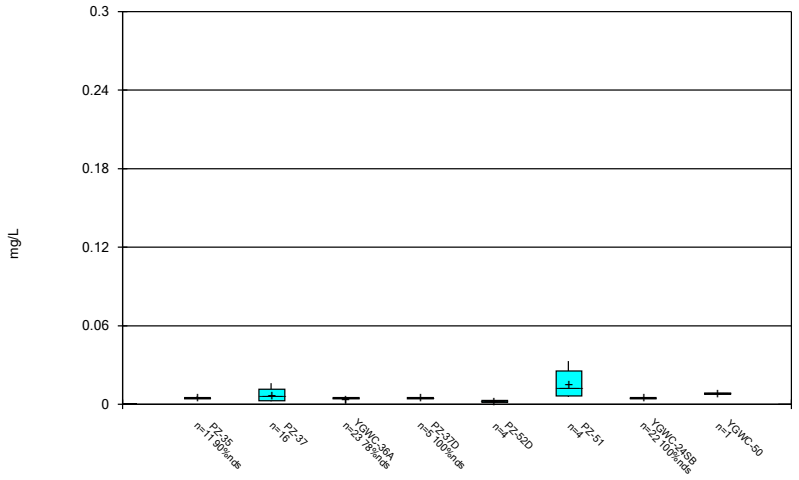

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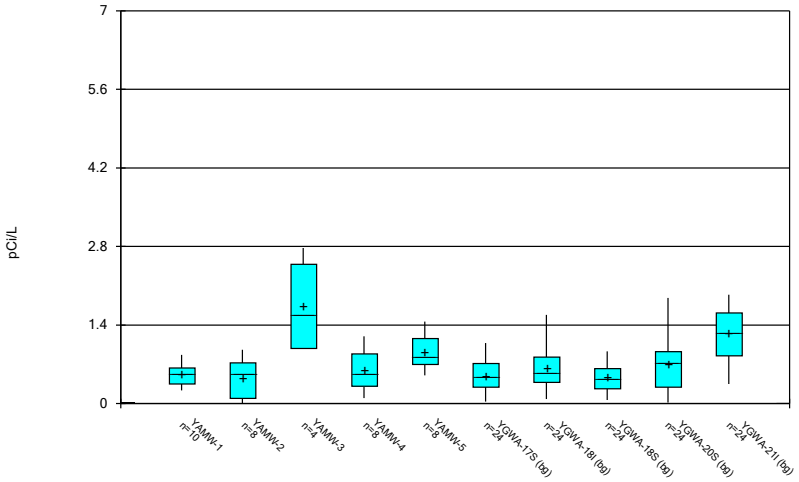

Constituent: Combined Radium 226 + 228 Analysis Run 10/18/2023 8:37 AM

Plant Yates Data: Plant Yates AMA-R6

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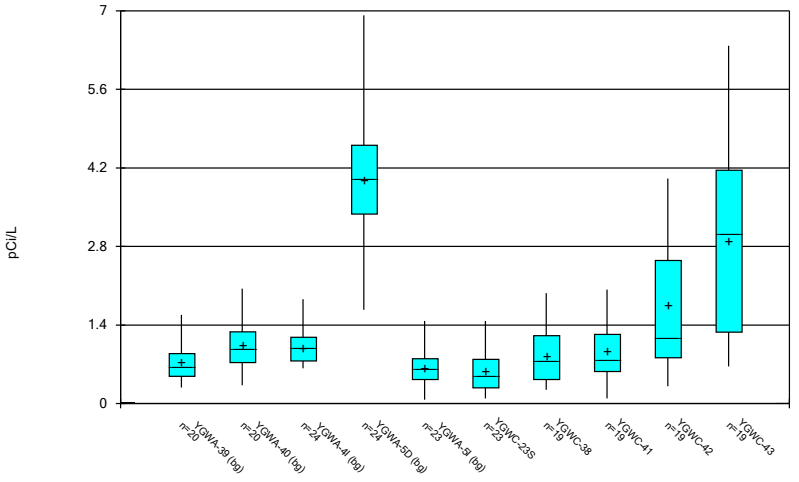
Box & Whiskers Plot



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Plant Yates Data: Plant Yates AMA-R6

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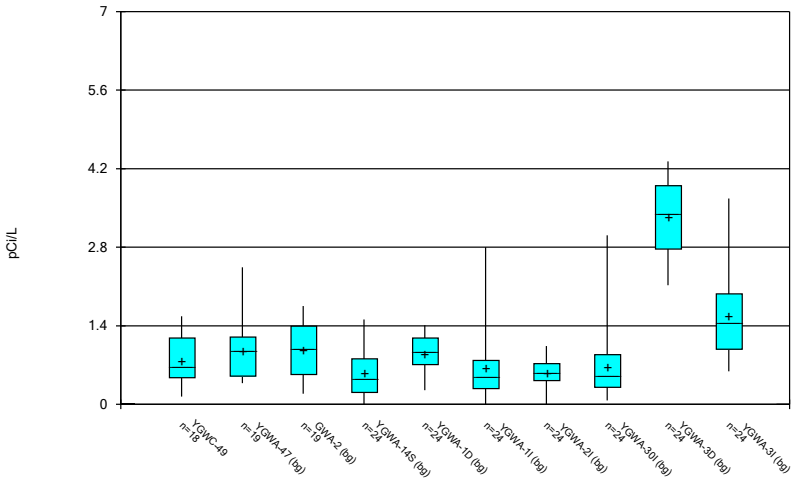

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Plant Yates Data: Plant Yates AMA-R6

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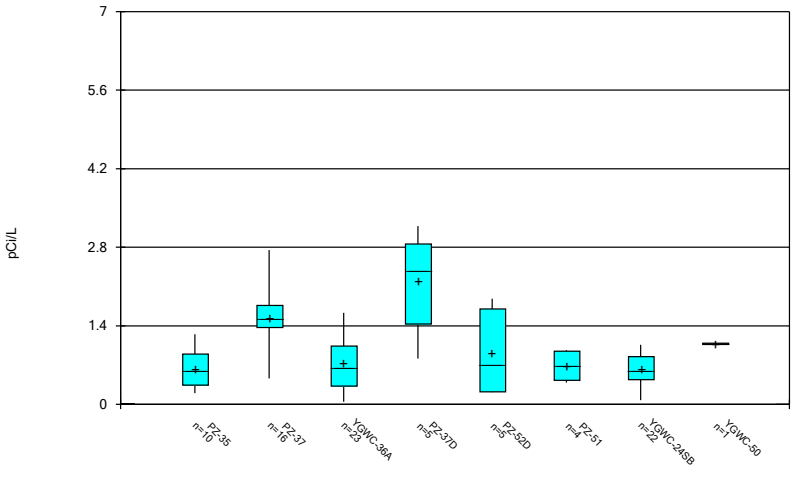
Box & Whiskers Plot



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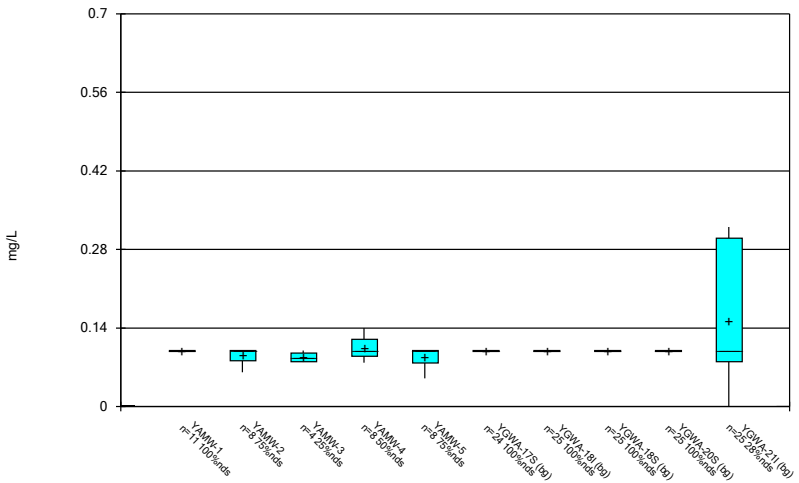

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Plant Yates Data: Plant Yates AMA-R6

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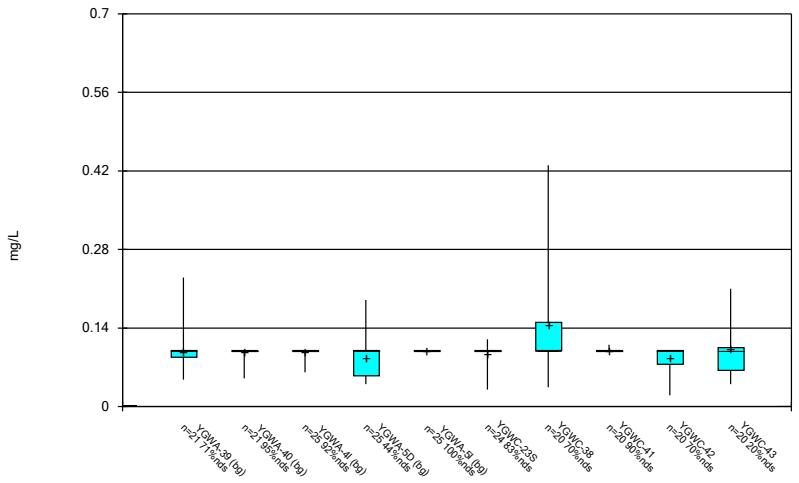

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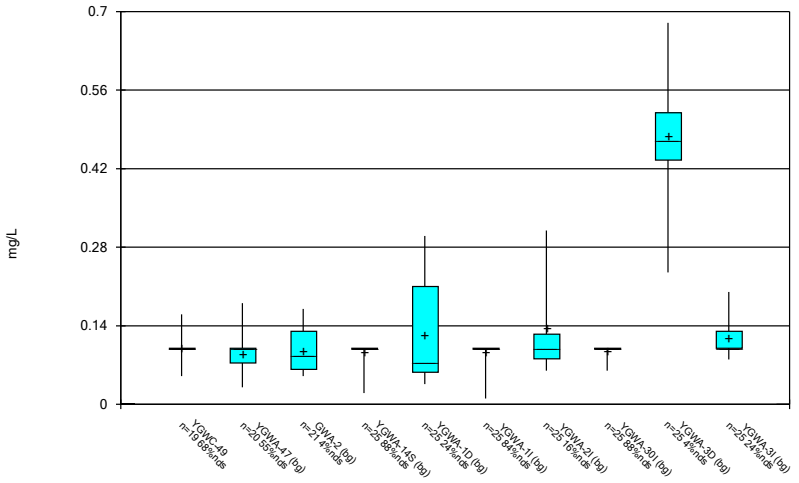

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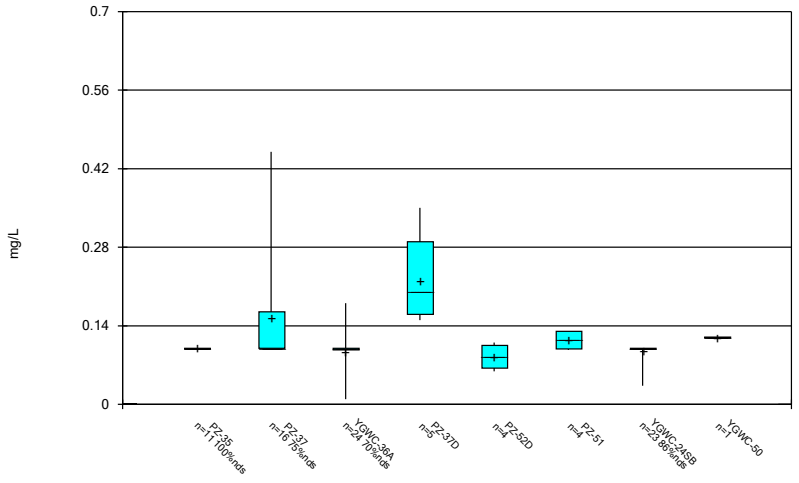

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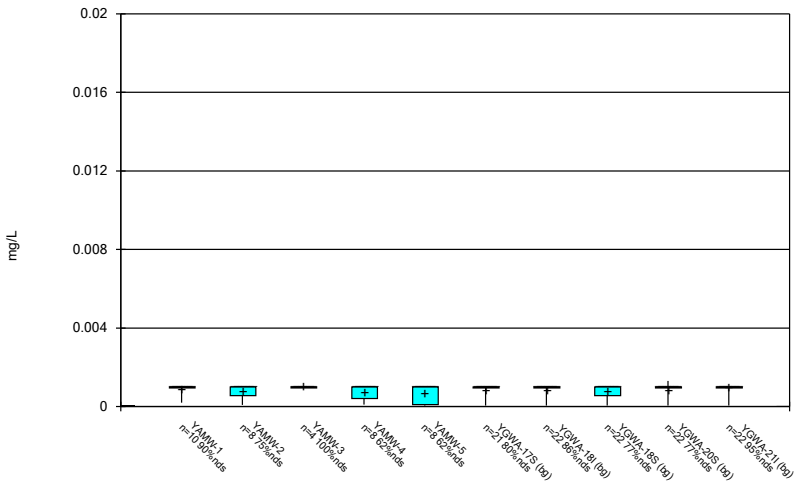

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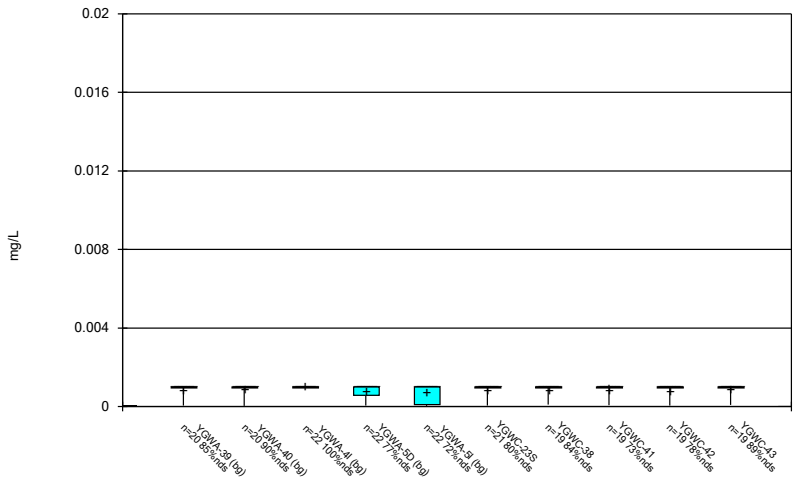

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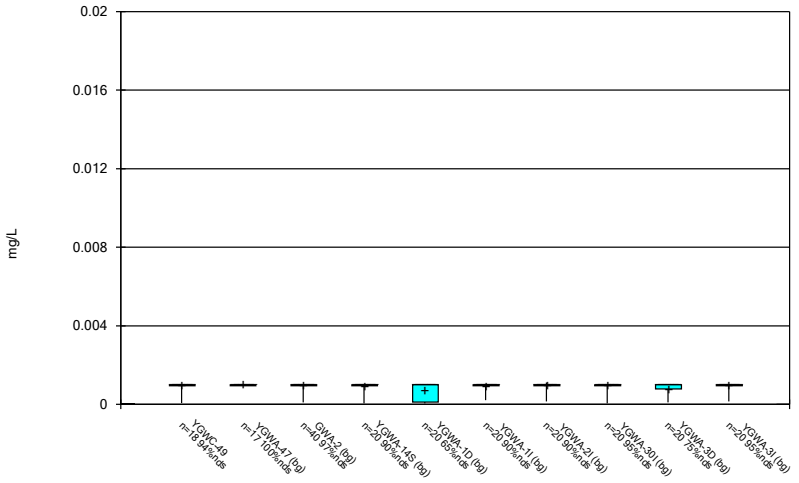

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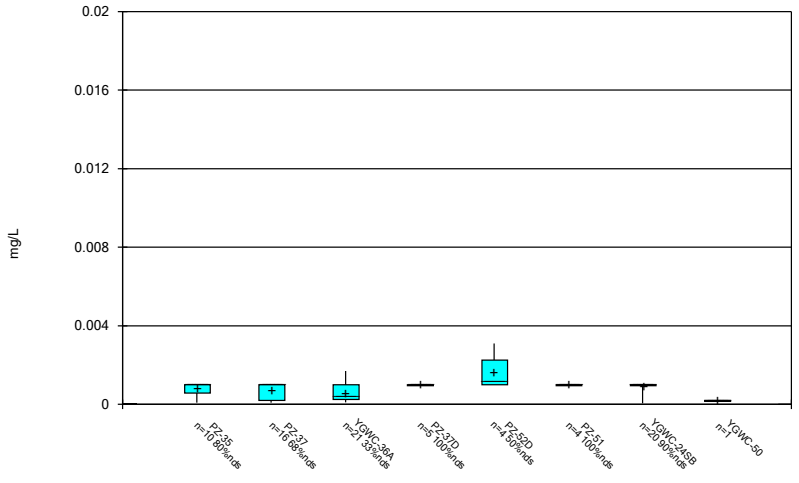

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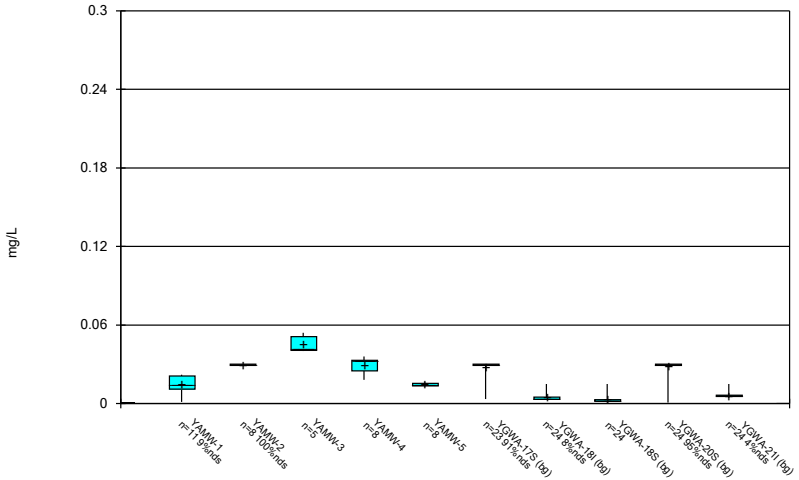

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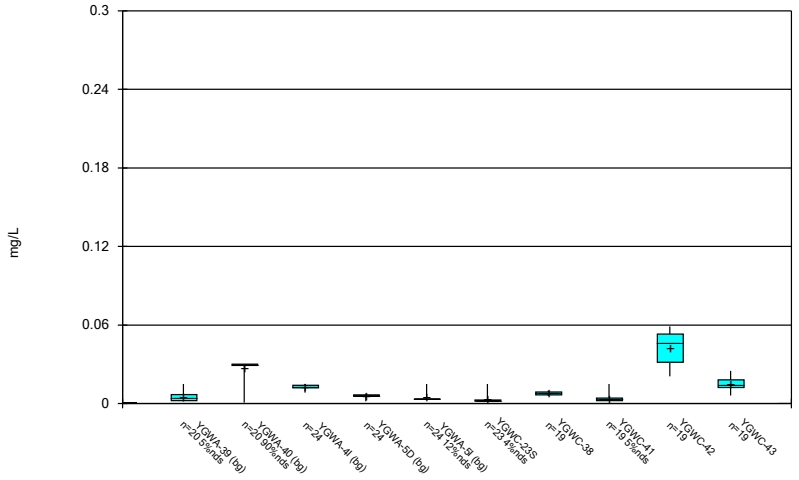

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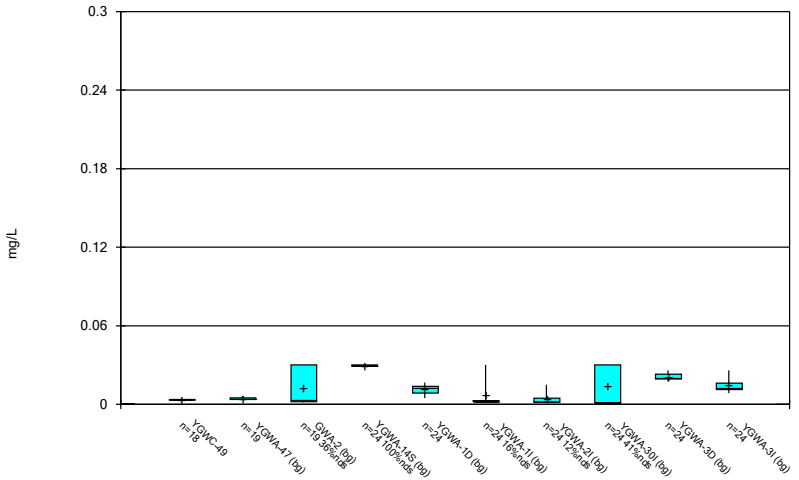

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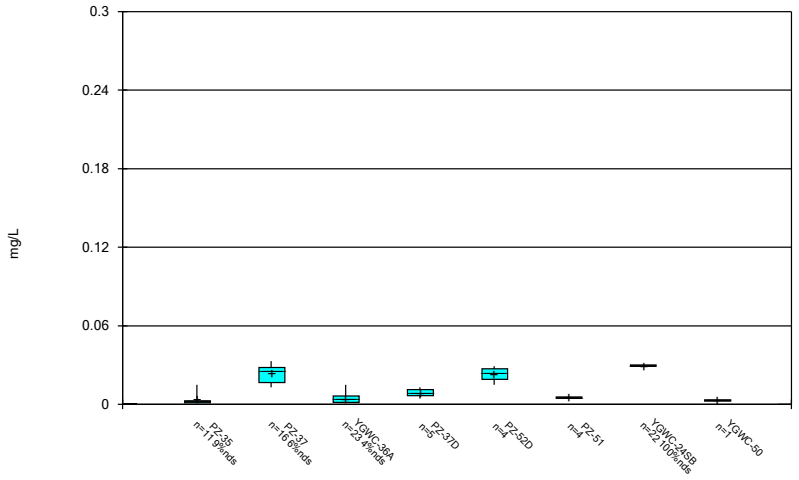

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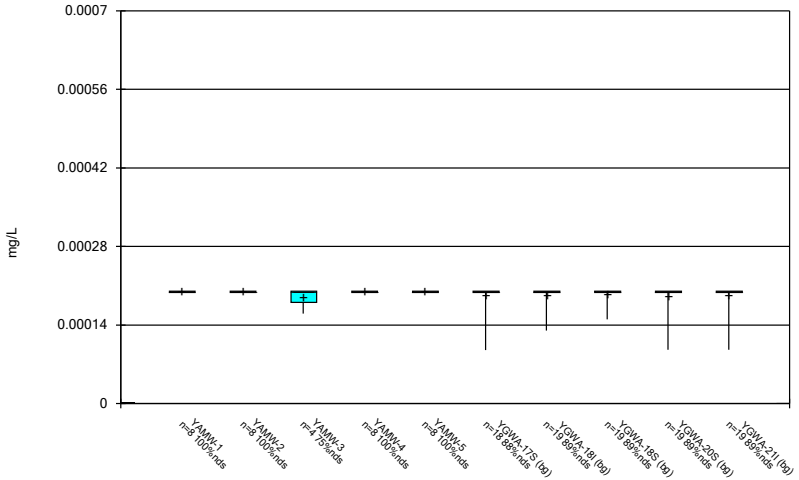

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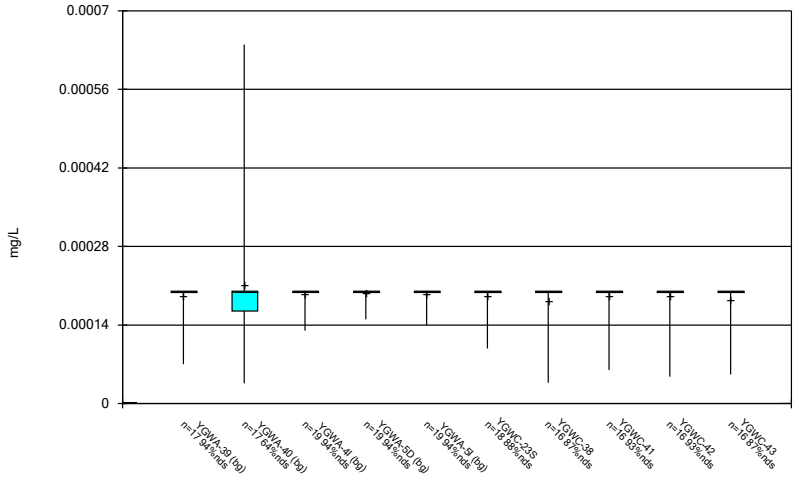

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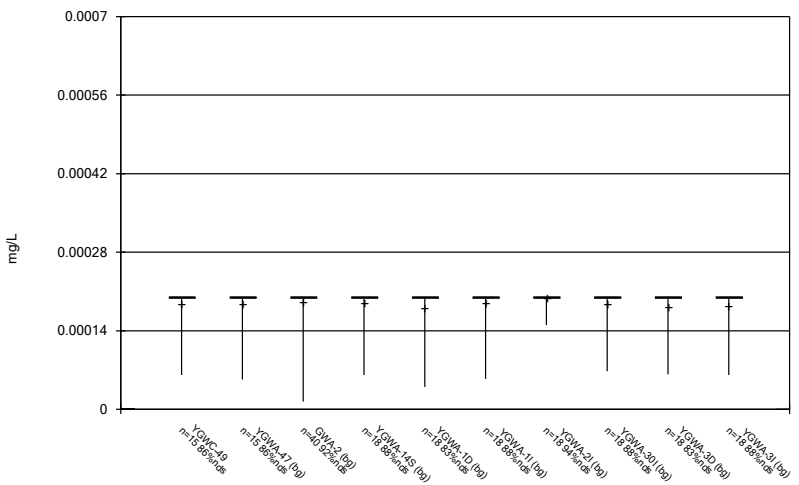

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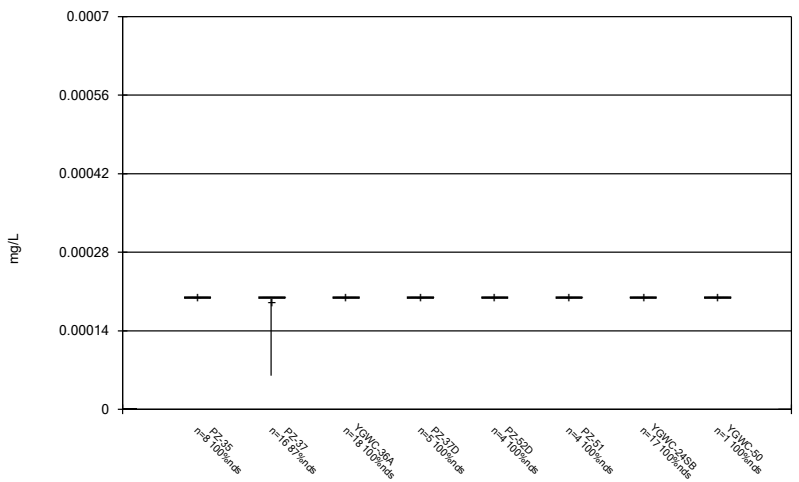

Constituent: Mercury Analysis Run 10/18/2023 8:38 AM
Plant Yates Data: Plant Yates AMA-R6

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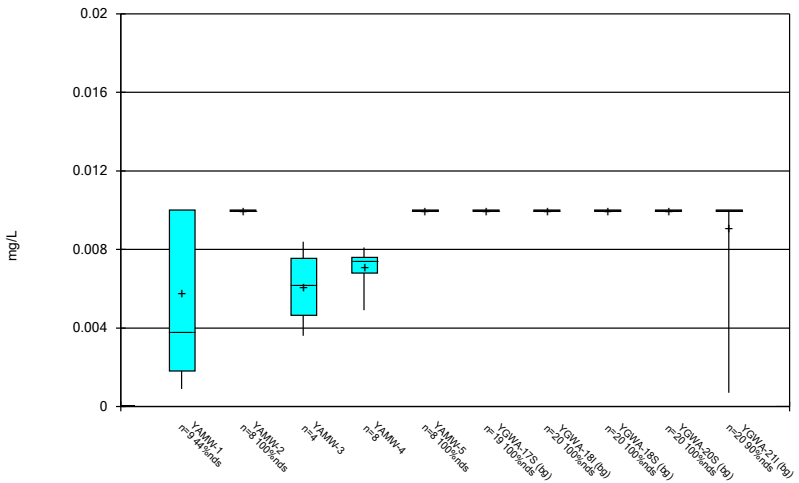

Constituent: Molybdenum Analysis Run 10/18/2023 8:38 AM
Plant Yates Data: Plant Yates AMA-R6

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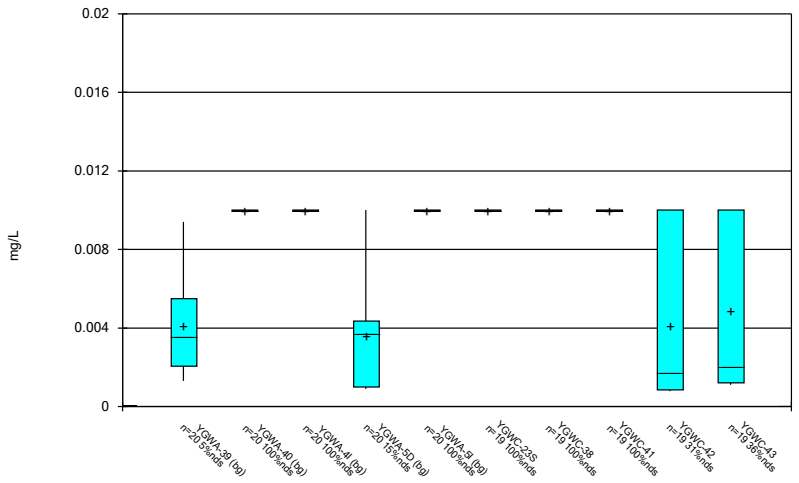

Constituent: Molybdenum Analysis Run 10/18/2023 8:38 AM
Plant Yates Data: Plant Yates AMA-R6

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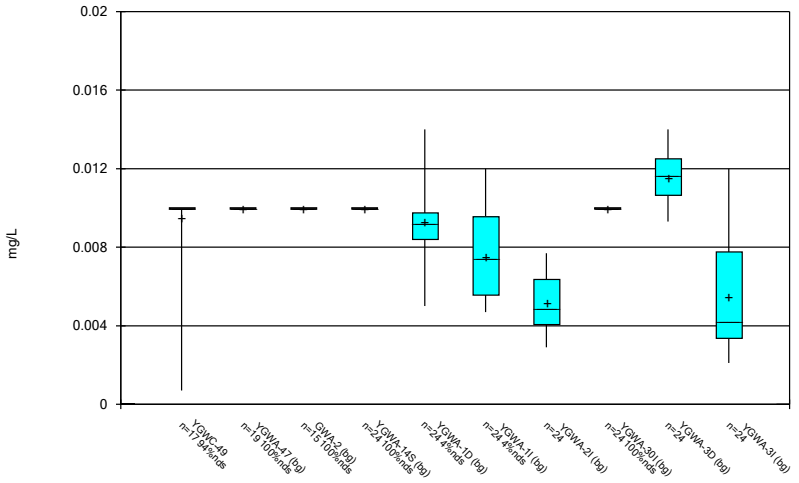

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Plant Yates Data: Plant Yates AMA-R6

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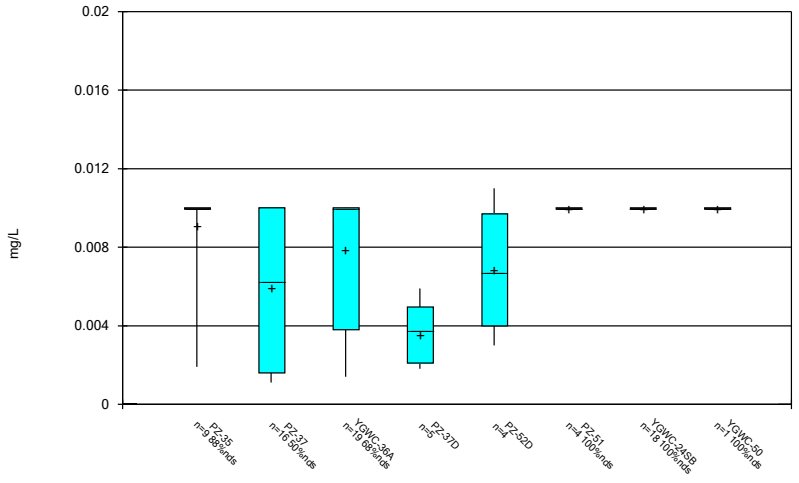

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Plant Yates Data: Plant Yates AMA-R6

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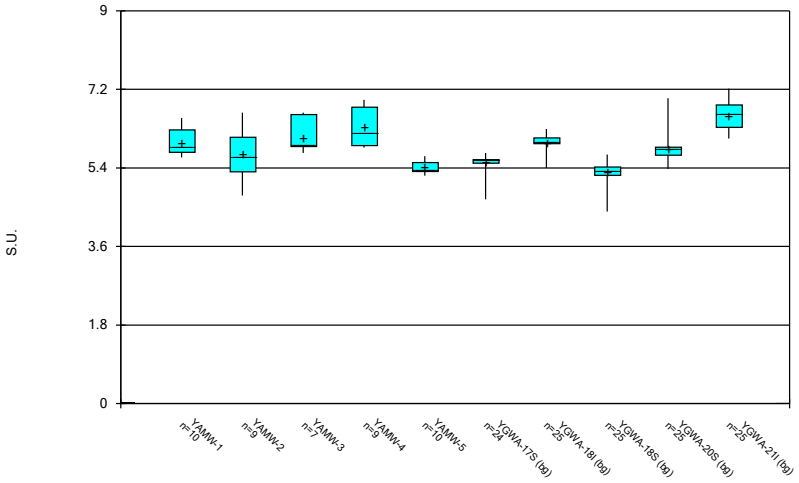

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Plant Yates Data: Plant Yates AMA-R6

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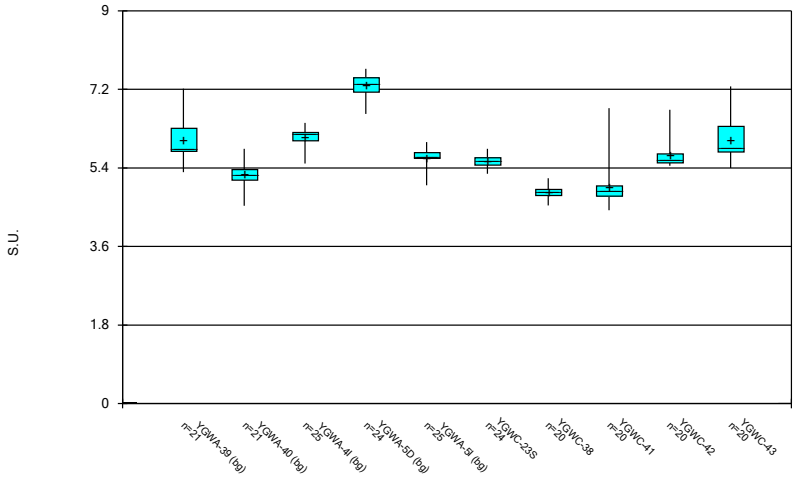

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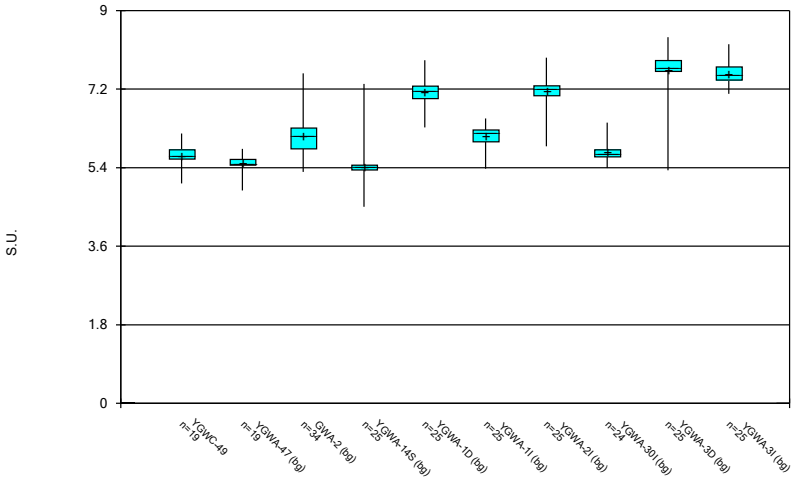

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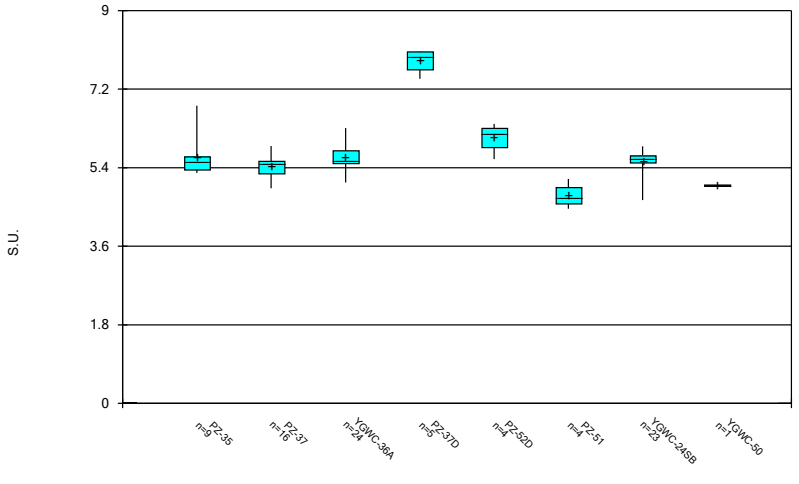

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Plant Yates Data: Plant Yates AMA-R6

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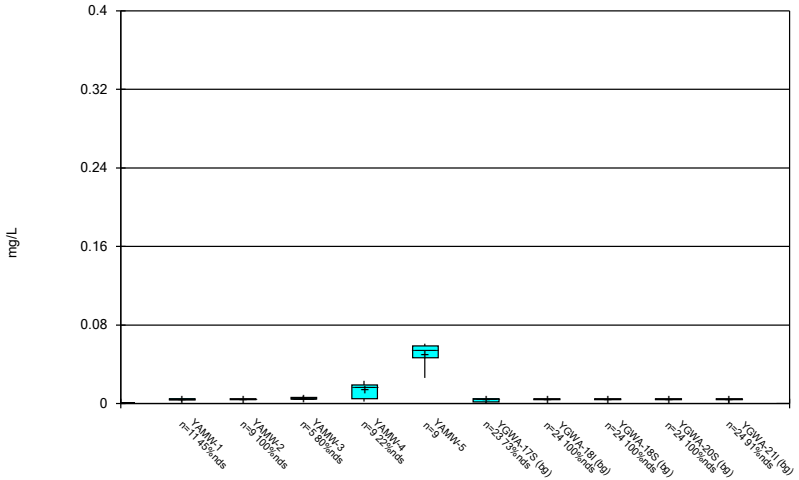

Constituent: Selenium Analysis Run 10/18/2023 8:38 AM
Plant Yates Data: Plant Yates AMA-R6

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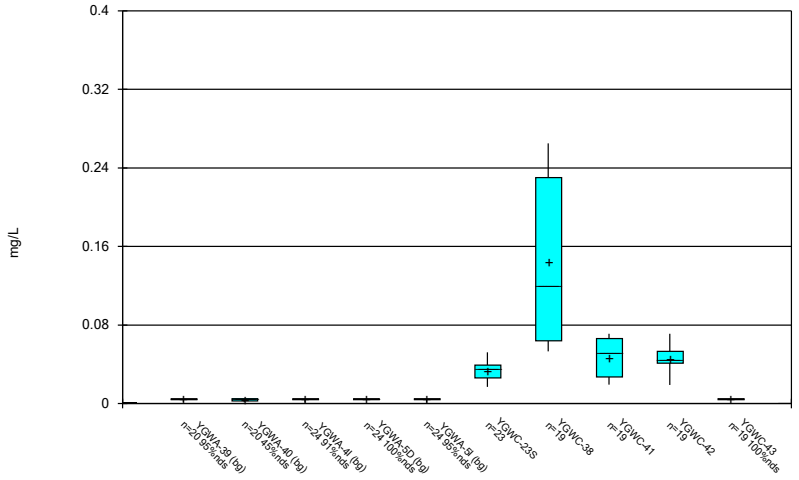
Box & Whiskers Plot



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Plant Yates Data: Plant Yates AMA-R6

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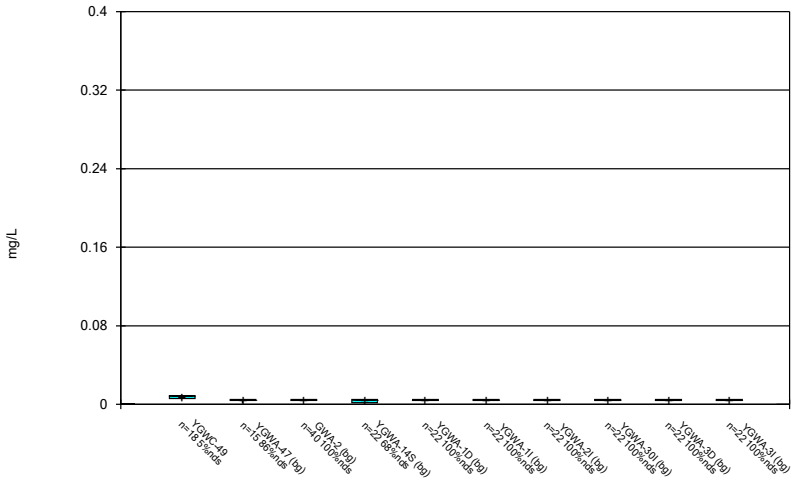

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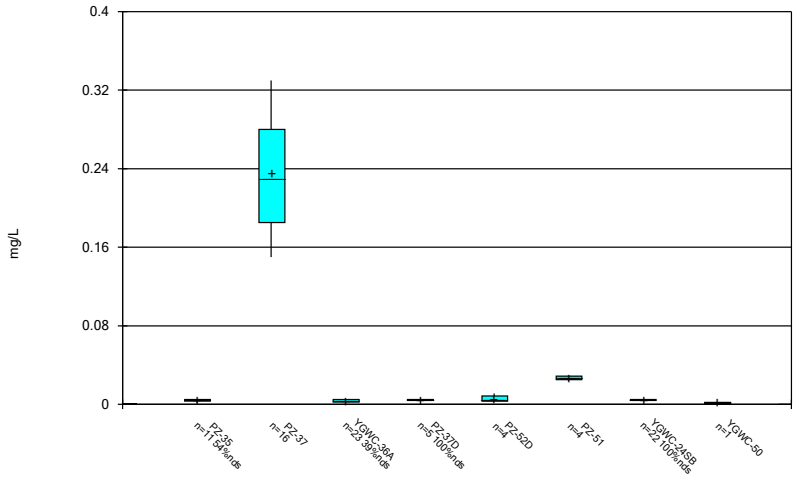

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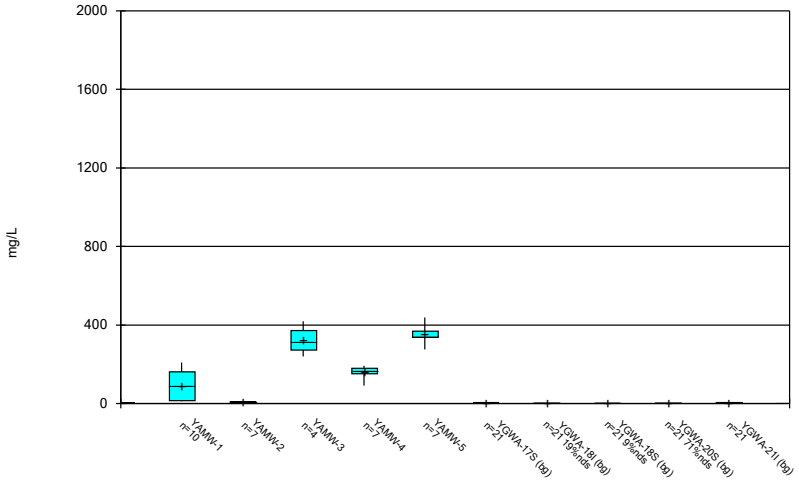

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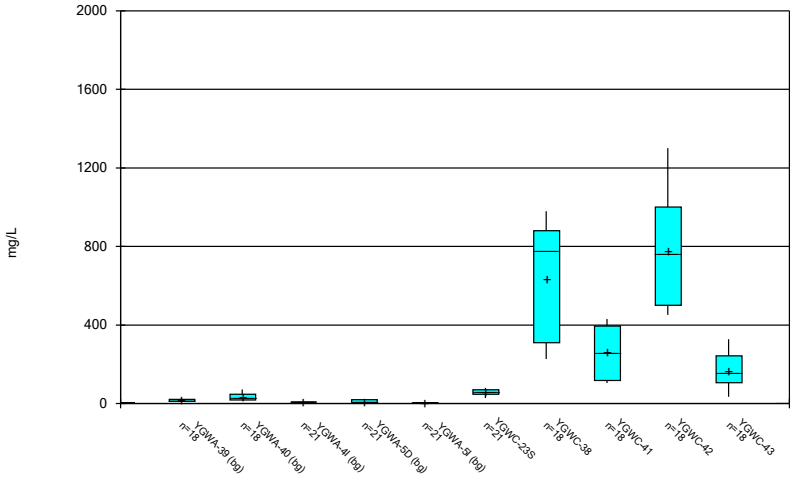

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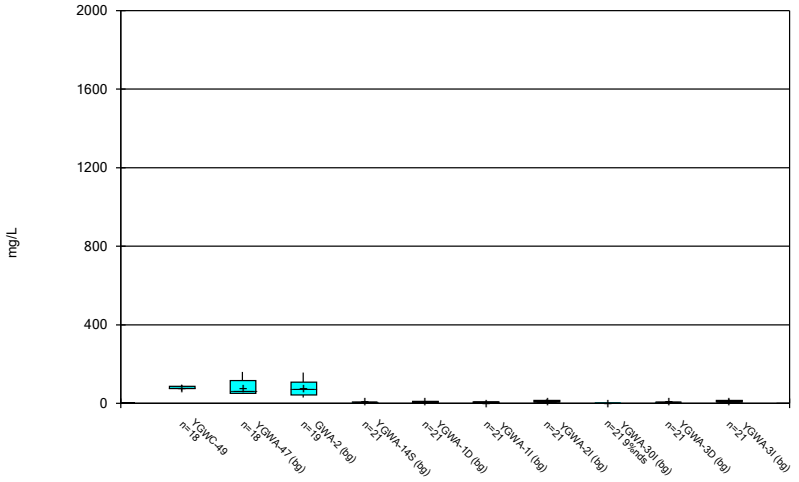

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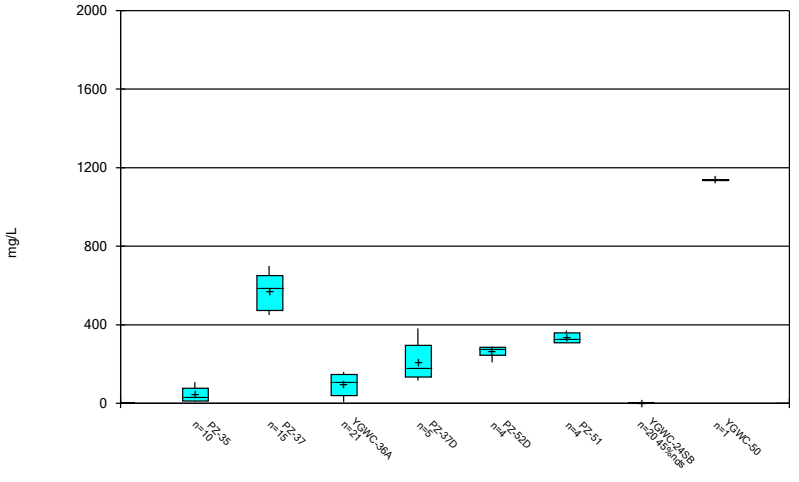

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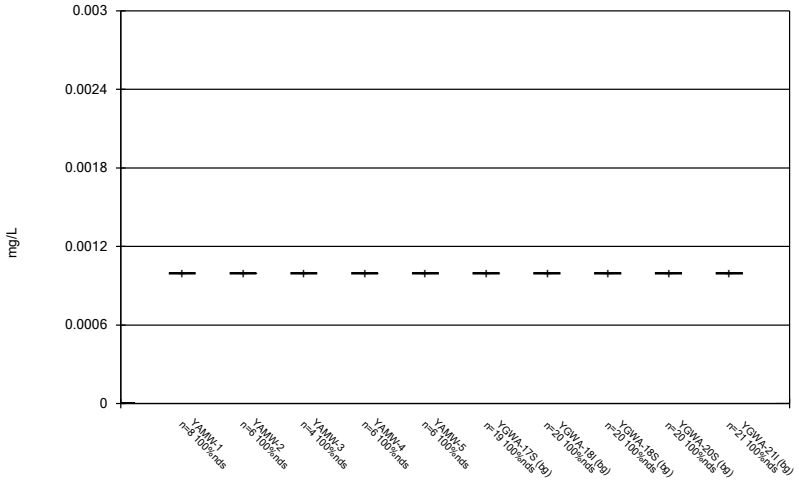

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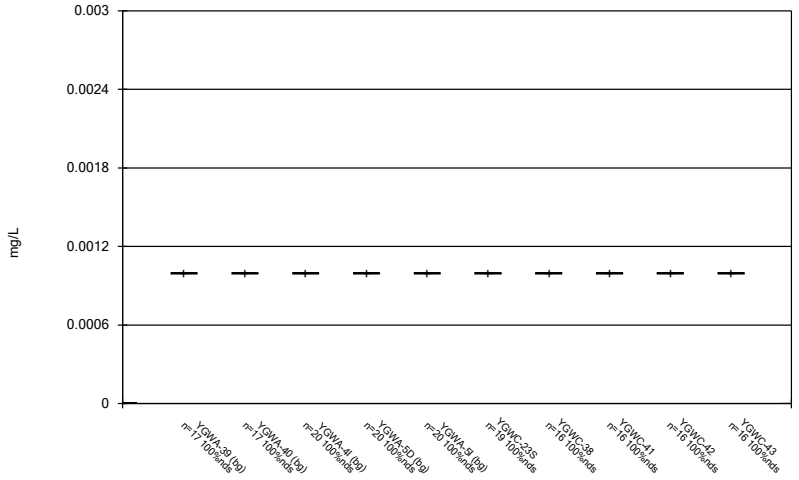
Box & Whiskers Plot



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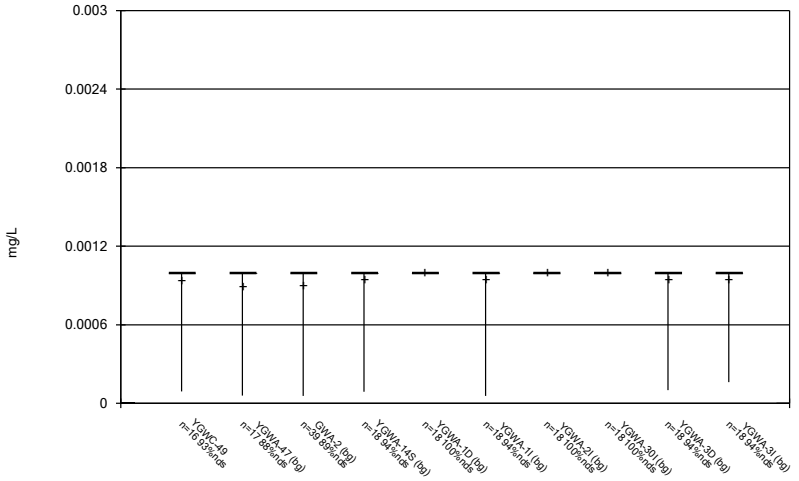

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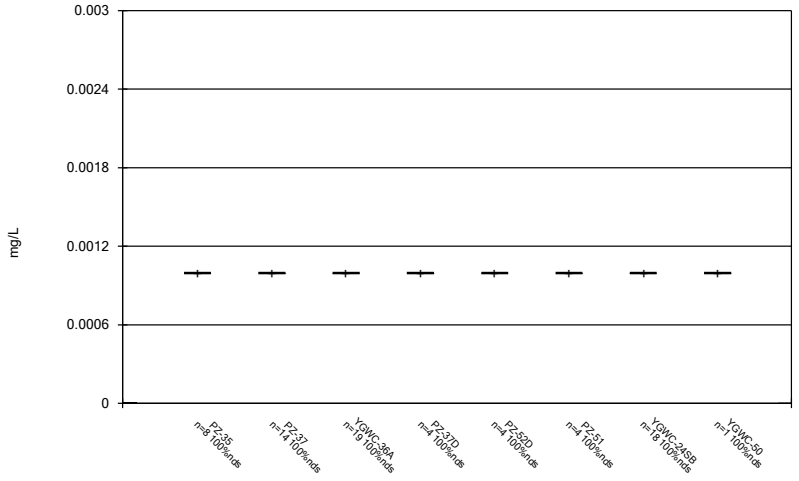

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Plant Yates Data: Plant Yates AMA-R6

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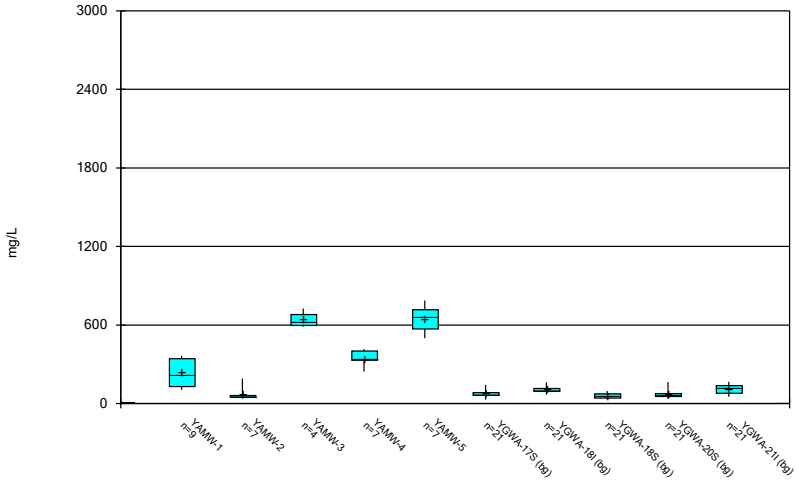

Constituent: Total Dissolved Solids Analysis Run 10/18/2023 8:38 AM
Plant Yates Data: Plant Yates AMA-R6

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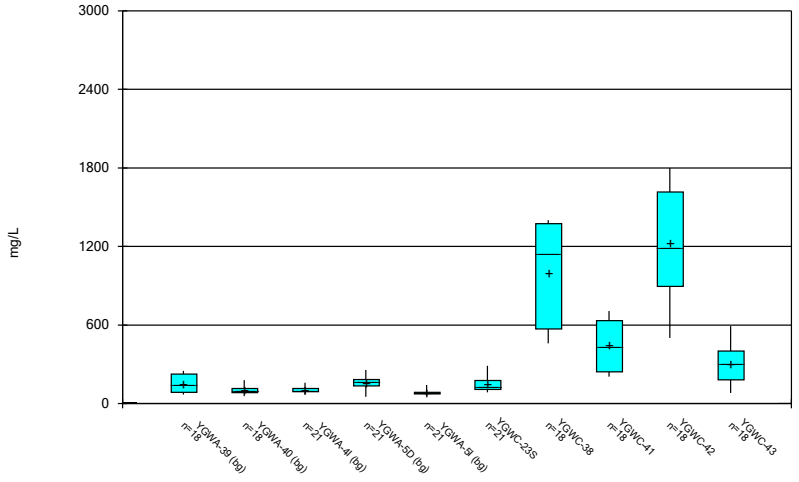

Constituent: Total Dissolved Solids Analysis Run 10/18/2023 8:38 AM
Plant Yates Data: Plant Yates AMA-R6

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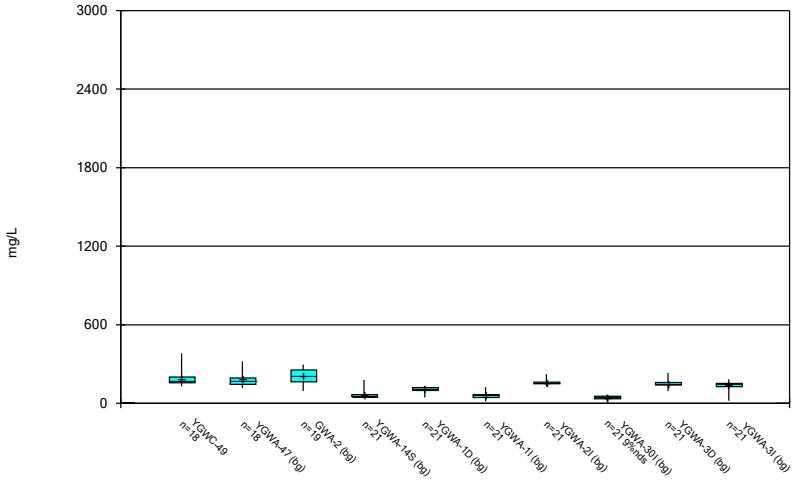

Constituent: Total Dissolved Solids Analysis Run 10/18/2023 8:38 AM
Plant Yates Data: Plant Yates AMA-R6

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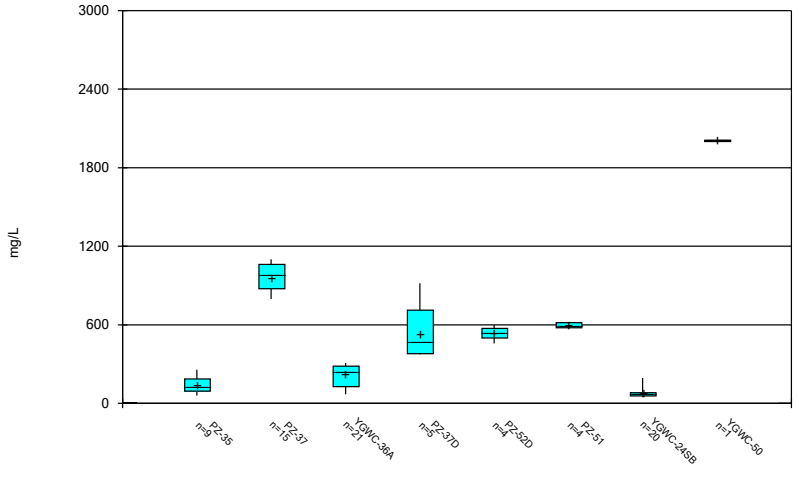
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 10/18/2023 8:38 AM
Plant Yates Data: Plant Yates AMA-R6

FIGURE C.

Outlier Summary

Plant Yates Data: Plant Yates AMA-R6 Printed 10/18/2023, 8:00 AM

	GWA-2 Cobalt (mg/L)	YGWA-47 pH (S.U.)
4/2/2018		6.3 (O)
8/26/2020	0.2 (O)	
9/22/2020	0.16 (O)	
3/2/2021	0.21 (O)	
8/20/2021	0.074 (O)	
2/8/2022	0.072 (o)	
8/30/2022	0.075 (o)	

FIGURE D.

Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 10/20/2023, 11:07 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	YGWC-23S	0.16	n/a	8/16/2023	1.2	Yes	388	n/a	n/a	51.03	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-38	0.16	n/a	8/16/2023	3.7	Yes	388	n/a	n/a	51.03	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-41	0.16	n/a	8/16/2023	3.1	Yes	388	n/a	n/a	51.03	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-42	0.16	n/a	8/16/2023	7.1	Yes	388	n/a	n/a	51.03	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-43	0.16	n/a	8/16/2023	2.8	Yes	388	n/a	n/a	51.03	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Calcium (mg/L)	YGWC-38	37	n/a	8/16/2023	50.9	Yes	388	n/a	n/a	0.7732	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-42	37	n/a	8/16/2023	69.2	Yes	388	n/a	n/a	0.7732	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-38	160	n/a	8/16/2023	227	Yes	388	n/a	n/a	5.928	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-42	160	n/a	8/16/2023	451	Yes	388	n/a	n/a	5.928	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-38	235.4	n/a	8/16/2023	460	Yes	388	4.653	0.8034	0.5155	None	x^(1/3)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-41	235.4	n/a	8/16/2023	266	Yes	388	4.653	0.8034	0.5155	None	x^(1/3)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-42	235.4	n/a	8/16/2023	904	Yes	388	4.653	0.8034	0.5155	None	x^(1/3)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-43	235.4	n/a	8/16/2023	356	Yes	388	4.653	0.8034	0.5155	None	x^(1/3)	0.0009403	Param Inter 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 10/20/2023, 11:07 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**YGWC-23S**	**0.16**	**n/a**	**8/16/2023**	**1.2**	**Yes**	**388**	**n/a**	**n/a**	**51.03**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-38**	**0.16**	**n/a**	**8/16/2023**	**3.7**	**Yes**	**388**	**n/a**	**n/a**	**51.03**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-41**	**0.16**	**n/a**	**8/16/2023**	**3.1**	**Yes**	**388**	**n/a**	**n/a**	**51.03**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-42**	**0.16**	**n/a**	**8/16/2023**	**7.1**	**Yes**	**388**	**n/a**	**n/a**	**51.03**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-43**	**0.16**	**n/a**	**8/16/2023**	**2.8**	**Yes**	**388**	**n/a**	**n/a**	**51.03**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	YGWC-49	0.16	n/a	8/16/2023	0.012J	No	388	n/a	n/a	51.03	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-36A	0.16	n/a	8/16/2023	0.058	No	388	n/a	n/a	51.03	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-24SB	0.16	n/a	8/16/2023	0.04ND	No	388	n/a	n/a	51.03	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Calcium (mg/L)	YGWC-23S	37	n/a	8/16/2023	11.2	No	388	n/a	n/a	0.7732	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	**YGWC-38**	**37**	**n/a**	**8/16/2023**	**50.9**	**Yes**	**388**	**n/a**	**n/a**	**0.7732**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	YGWC-41	37	n/a	8/16/2023	13.5	No	388	n/a	n/a	0.7732	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	**YGWC-42**	**37**	**n/a**	**8/16/2023**	**69.2**	**Yes**	**388**	**n/a**	**n/a**	**0.7732**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	YGWC-43	37	n/a	8/16/2023	10.7	No	388	n/a	n/a	0.7732	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-49	37	n/a	8/16/2023	11.1	No	388	n/a	n/a	0.7732	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-36A	37	n/a	8/16/2023	20	No	388	n/a	n/a	0.7732	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-24SB	37	n/a	8/16/2023	2.2	No	388	n/a	n/a	0.7732	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-23S	12	n/a	8/16/2023	2.7	No	388	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-38	12	n/a	8/16/2023	3.7	No	388	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-41	12	n/a	8/16/2023	3.7	No	388	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-42	12	n/a	8/16/2023	2.8	No	388	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-43	12	n/a	8/16/2023	2.3	No	388	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-49	12	n/a	8/16/2023	3.8	No	388	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-36A	12	n/a	8/16/2023	4.9	No	388	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-24SB	12	n/a	8/16/2023	8.1	No	388	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	8/16/2023	0.1ND	No	457	n/a	n/a	64.33	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-38	0.68	n/a	8/16/2023	0.1ND	No	457	n/a	n/a	64.33	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-41	0.68	n/a	8/16/2023	0.1ND	No	457	n/a	n/a	64.33	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-42	0.68	n/a	8/16/2023	0.1ND	No	457	n/a	n/a	64.33	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-43	0.68	n/a	8/16/2023	0.062J	No	457	n/a	n/a	64.33	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-49	0.68	n/a	8/16/2023	0.1ND	No	457	n/a	n/a	64.33	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-36A	0.68	n/a	8/16/2023	0.1ND	No	457	n/a	n/a	64.33	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-24SB	0.68	n/a	8/16/2023	0.1ND	No	457	n/a	n/a	64.33	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
pH (S.U.)	YGWC-23S	8.39	4.4	8/16/2023	5.36	No	467	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	8/16/2023	4.83	No	467	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	8/16/2023	5.01	No	467	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	8/16/2023	5.53	No	467	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	8/16/2023	5.58	No	467	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	8/16/2023	5.04	No	467	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	8/16/2023	5.36	No	467	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	8/16/2023	5.89	No	467	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	8/16/2023	69.3	No	388	n/a	n/a	5.928	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**YGWC-38**	**160**	**n/a**	**8/16/2023**	**227**	**Yes**	**388**	**n/a**	**n/a**	**5.928**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	YGWC-41	160	n/a	8/16/2023	104	No	388	n/a	n/a	5.928	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**YGWC-42**	**160**	**n/a**	**8/16/2023**	**451**	**Yes**	**388**	**n/a**	**n/a**	**5.928**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	YGWC-43	160	n/a	8/16/2023	151	No	388	n/a	n/a	5.928	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-49	160	n/a	8/16/2023	63.8	No	388	n/a	n/a	5.928	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-36A	160	n/a	8/16/2023	93.9	No	388	n/a	n/a	5.928	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-24SB	160	n/a	8/16/2023	0.5ND	No	388	n/a	n/a	5.928	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-23S	235.4	n/a	8/16/2023	170	No	388	4.653	0.8034	0.5155	None	x^(1/3)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	**YGWC-38**	**235.4**	**n/a**	**8/16/2023**	**460**	**Yes**	**388**	**4.653**	**0.8034**	**0.5155**	**None**	**x^(1/3)**	**0.0009403**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**YGWC-41**	**235.4**	**n/a**	**8/16/2023**	**266**	**Yes**	**388**	**4.653**	**0.8034**	**0.5155**	**None**	**x^(1/3)**	**0.0009403**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**YGWC-42**	**235.4**	**n/a**	**8/16/2023**	**904**	**Yes**	**388**	**4.653**	**0.8034**	**0.5155**	**None**	**x^(1/3)**	**0.0009403**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	**YGWC-43**	**235.4**	**n/a**	**8/16/2023**	**356**	**Yes**	**388**	**4.653**	**0.8034**	**0.5155**	**None**	**x^(1/3)**	**0.0009403**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	YGWC-49	235.4	n/a	8/16/2023	159	No	388	4.653	0.8034	0.5155	None	x^(1/3)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-36A	235.4	n/a	8/16/2023	234	No	388	4.653	0.8034	0.5155	None	x^(1/3)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-24SB	235.4	n/a	8/16/2023	68	No	388	4.653	0.8034	0.5155	None	x^(1/3)	0.0009403	Param Inter 1 of 2

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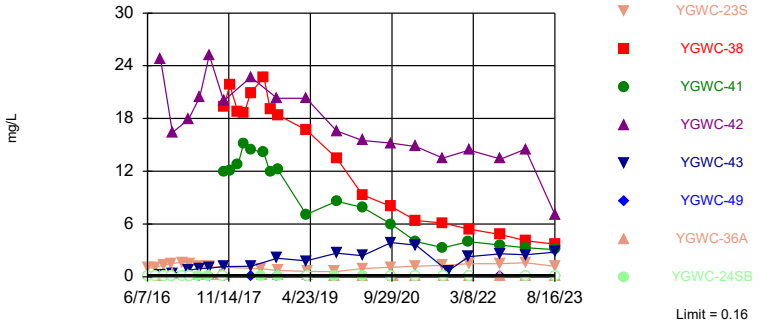
Hollow symbols indicate censored values.

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 388 background values. 51.03% NDs. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

Constituent: Boron Analysis Run 10/20/2023 11:01 AM View: Appendix III
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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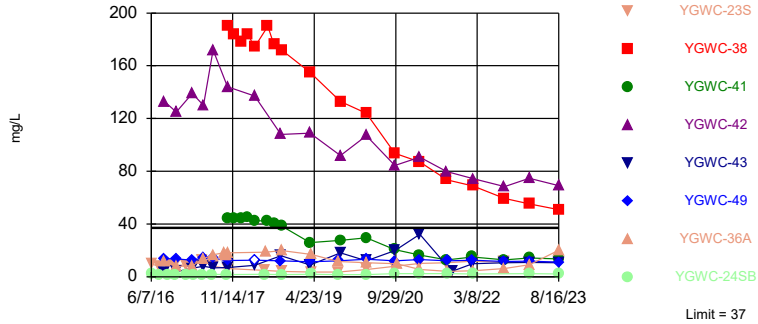
Hollow symbols indicate censored values.

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 388 background values. 0.7732% NDs. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

Constituent: Calcium Analysis Run 10/20/2023 11:01 AM View: Appendix III
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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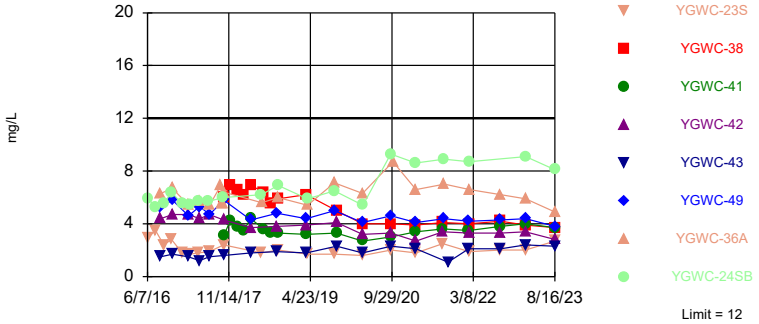
Within Limit

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 388 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 10/20/2023 11:01 AM View: Appendix III
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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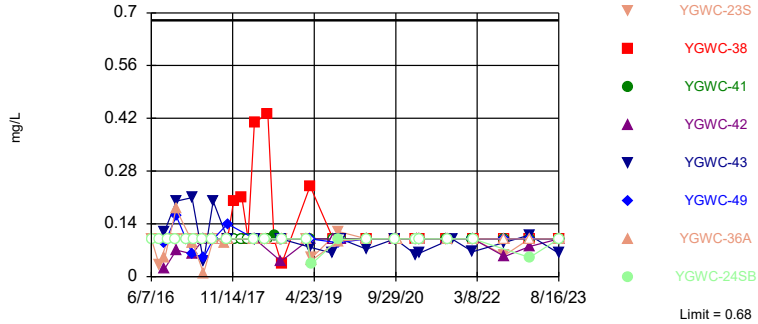
Hollow symbols indicate censored values.

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 457 background values. 64.33% NDs. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

Constituent: Fluoride Analysis Run 10/20/2023 11:01 AM View: Appendix III
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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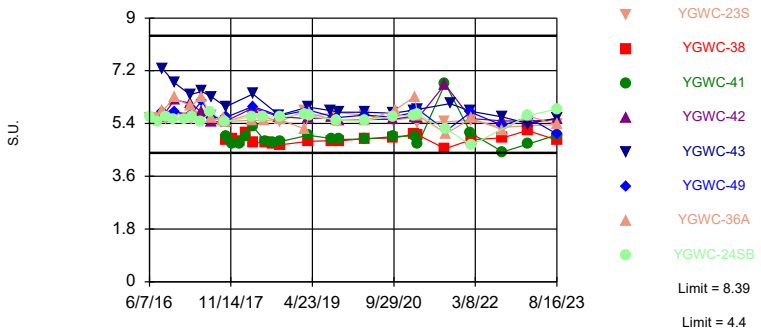
Within Limits

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 467 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 10/20/2023 11:01 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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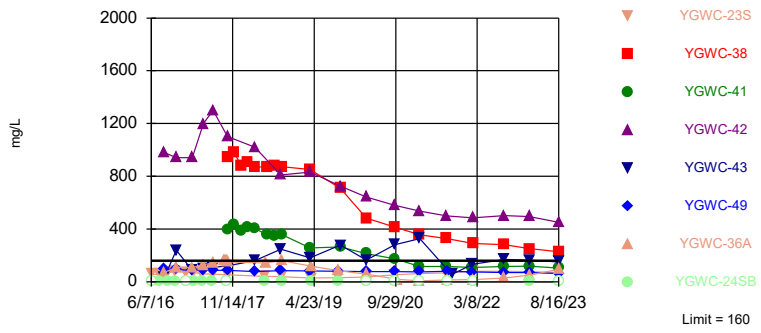
Hollow symbols indicate censored values.

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 388 background values. 5.928% NDs. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

Constituent: Sulfate Analysis Run 10/20/2023 11:01 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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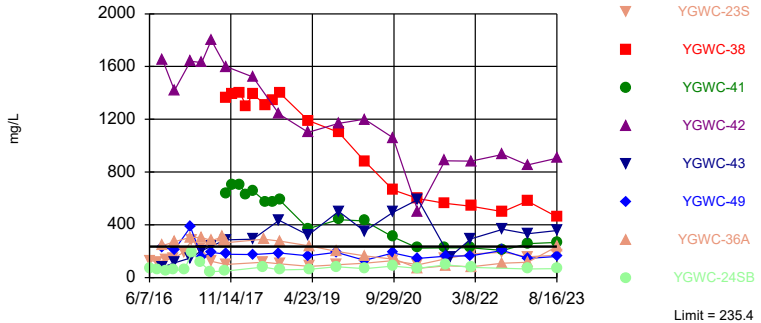
Exceeds Limit: YGWC-38, YGWC-41, YGWC-42, YGWC-43

Prediction Limit

Interwell Parametric



Background Data Summary (based on cube root transformation): Mean=4.653, Std. Dev.=0.8034, n=388, 0.5155% NDs. Normality test: Chi Squared @alpha = 0.01, calculated = 12.05, critical = 14.07. Kappa = 1.894 (c=7, w=8, 1 of 2, event alpha = 0.05132). N exceeds UG tables; Kappa based on n=150. Report alpha = 0.007498. Individual comparison alpha = 0.0009403. Comparing 8 points to limit.

Constituent: Total Dissolved Solids Analysis Run 10/20/2023 11:01 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/20/2023 11:07 AM 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-14S (bg)	YGWA-4I (bg)	YGWA-5I (bg)	YGWA-5D (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)		0.0177 (J)	0.0047 (J)	<0.04	0.0052 (J)
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016		<0.04	<0.04						
9/14/2016	<0.04						<0.04	0.01 (J)	0.0071 (J)
9/15/2016				0.0102 (J)		0.0214 (J)			
9/16/2016									
9/19/2016					<0.04				
9/20/2016									
11/1/2016	<0.04		0.0086 (J)	<0.04	<0.04				
11/2/2016						<0.04	<0.04		<0.04
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	<0.04	0.0161 (J)			
4/27/2017		<0.04	0.0066 (J)						
4/28/2017									
5/1/2017							<0.04		0.0061 (J)

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/20/2023 11:07 AM 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-14S (bg)	YGWA-4I (bg)	YGWA-5I (bg)	YGWA-5D (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					<0.04	0.0173 (J)			
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017		0.0071 (J)	0.0072 (J)					<0.04	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)			0.0045 (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							0.005 (J)	0.0057 (J)	0.01 (J)
9/27/2018									
10/1/2018	<0.04	0.0049 (J)	0.021 (J)	<0.04		0.015 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/20/2023 11:07 AM 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-14S (bg)	YGWA-4I (bg)	YGWA-5I (bg)	YGWA-5D (bg)
10/2/2018					<0.04				
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019		<0.04	0.005 (J)						
3/29/2019						0.014 (J)			
4/1/2019	<0.04			<0.04	<0.04				
4/2/2019									
4/3/2019							0.0055 (J)	0.0044 (J)	0.0076 (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)	<0.04	0.018 (J)	<0.04		
9/26/2019									
9/27/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020		0.0087 (J)				0.02 (J)			
3/19/2020	0.0053 (J)		0.0085 (J)	0.0073 (J)	0.0052 (J)				
3/24/2020								0.0068 (J)	0.011 (J)
3/25/2020							0.011 (J)		
3/26/2020									
9/22/2020							<0.04	0.0053 (J)	0.0079 (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						0.017 (J)		0.011 (J)	0.0068 (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	<0.04	0.018 (J)			
8/20/2021									
8/25/2021									
8/26/2021							<0.04	<0.04	0.009 (J)
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						0.02 (J)		<0.04	0.011 (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	<0.04	0.015 (J)	<0.04		
9/1/2022									
2/7/2023		<0.04	<0.04						<0.04
2/8/2023	<0.04			<0.04	<0.04	0.015 (J)			
2/9/2023							<0.04	<0.04	
2/10/2023									
8/15/2023		0.0094 (J)	<0.04	<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 10/20/2023 11:07 AM 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-14S (bg)	YGWA-4I (bg)	YGWA-5I (bg)	YGWA-5D (bg)
8/16/2023	<0.04				<0.04				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/20/2023 11:07 AM 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	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	<0.04	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								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	0.0082 (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 10/20/2023 11:07 AM 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	YGWA-47 (bg)	YGWC-42
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								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	0.007 (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 10/20/2023 11:07 AM 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	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	0.0053 (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		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 10/20/2023 11:07 AM 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	YGWA-47 (bg)	YGWC-42
8/16/2023						1.2	<0.04		7.1

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/20/2023 11:07 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWA-40 (bg)	YGWC-41
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016									
7/26/2016									
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016	0.0315 (J)	0.169							
9/1/2016			0.0113 (J)						
9/2/2016				0.133					
9/13/2016									
9/14/2016					<0.04				
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016					<0.04				
11/8/2016									
11/14/2016				0.287					
11/15/2016			0.0074 (J)						
11/16/2016		0.406							
11/28/2016	0.0095 (J)								
12/15/2016					0.0107 (J)				
1/10/2017									
1/11/2017									
1/12/2017									
1/13/2017									
1/16/2017					<0.04				
1/17/2017									
2/21/2017									
2/22/2017	<0.04								
2/24/2017		0.725							
2/27/2017			<0.04						
2/28/2017				0.215					
3/1/2017									
3/2/2017									
3/3/2017					<0.04				
3/6/2017									
3/7/2017									
3/8/2017									
3/9/2017									
4/26/2017									
4/27/2017									
4/28/2017					<0.04				
5/1/2017									

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/20/2023 11:07 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWA-40 (bg)	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					19.3	0.0401	12
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							0.146	15.2
2/20/2018						<0.04	18.6		
4/2/2018									
4/3/2018						0.033 (J)	20.9	0.12	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	22.7	0.16	
8/6/2018	<0.04								
8/7/2018						0.024 (J)	19.1	0.12	11.9
9/19/2018									
9/20/2018		2.1	0.0042 (J)						
9/24/2018						0.028 (J)	18.4	0.099	12.2
9/25/2018									
9/26/2018				0.24					
9/27/2018									
10/1/2018					<0.04				

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/20/2023 11:07 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWA-40 (bg)	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)	13.5	0.079	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)	6.4	0.078	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	<0.04	2.3	<0.04			0.13		0.074	4
2/9/2022					<0.04				
2/10/2022							5.4		
2/11/2022				0.019 (J)					
8/30/2022	<0.04				<0.04				
8/31/2022			0.011 (J)			0.14		0.062	
9/1/2022		2.6		0.067			4.8		3.6
2/7/2023	<0.04				<0.04	0.13			
2/8/2023		2.5					4.1	0.057	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 10/20/2023 11:07 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWA-40 (bg)	YGWC-41
8/16/2023		2.8	0.012 (J)	0.058			3.7		3.1

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/20/2023 11:07 AM 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-14S (bg)	YGWA-4I (bg)	YGWA-5I (bg)	YGWA-5D (bg)
6/1/2016	21	2.5	12						
6/2/2016				28	1.3	1.3	8.8	2.4	33
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	20.3	2.16			1.17				
7/26/2016			11	24.5		1.24	7.69	2.12	32.3
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016		2.21	11.8						
9/14/2016	19.7						8.49	2.18	31
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						1.23	7.83		30.9
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	1.03	1.14			
4/27/2017		2.38	11.1						
4/28/2017									
5/1/2017							13.4		37

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/20/2023 11:07 AM 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-14S (bg)	YGWA-4I (bg)	YGWA-5I (bg)	YGWA-5D (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					1.13	1.24			
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017		2.21	14					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			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							9.5 (J)	2.3	25.8
9/27/2018									
10/1/2018	19.7	1.8	15.1	26.9		0.99			

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/20/2023 11:07 AM 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-14S (bg)	YGWA-4I (bg)	YGWA-5I (bg)	YGWA-5D (bg)
10/2/2018					1.1				
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019		2.2	13.3 (J)						
3/29/2019						1.1			
4/1/2019	20.4 (J)			30.1	1.3				
4/2/2019									
4/3/2019							8.4	2.8	24.7 (J)
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	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								2.5	26.1
3/25/2020							10.5		
3/26/2020									
9/22/2020							9.6	2.6	27.2
9/23/2020	23.6	1.8	14.1	28.6					
9/24/2020					1.1				
9/25/2020						1.3			
10/7/2020									
3/1/2021					1.2				
3/2/2021						1.2		2.6	1.6
3/3/2021	20.6	1.8	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							7.6	2.5	25.2
8/27/2021	24.7								
9/1/2021									
9/3/2021									
9/27/2021									
2/8/2022									
2/9/2022	23.7	2.1	14.9	30.3					
2/10/2022						1.3		2.5	24.8
2/11/2022					1.5		7.5		
8/30/2022			14.9					2.5	24.8
8/31/2022	23.5	1.9		28.7	1.3	1.3	8.9		
9/1/2022									
2/7/2023		2.2	15						26.6
2/8/2023	23.3			28.9	1.3	1.5			
2/9/2023							9.6	2.8	
2/10/2023									
8/15/2023		1.8	13.5	27.4		1.3	7.8	2.6	25

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/20/2023 11:07 AM 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-14S (bg)	YGWA-4I (bg)	YGWA-5I (bg)	YGWA-5D (bg)
8/16/2023	24.9				1.4				

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/20/2023 11:07 AM 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	YGWA-47 (bg)	YGWC-42
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								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	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 10/20/2023 11:07 AM 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	YGWA-47 (bg)	YGWC-42
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								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	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 10/20/2023 11:07 AM 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	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	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		9.2	74.6
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 10/20/2023 11:07 AM 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	YGWA-47 (bg)	YGWC-42
8/16/2023						11.2	2.2		69.2

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/20/2023 11:07 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWA-40 (bg)	YGWC-41
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016									
7/26/2016									
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016	9.31	3.4							
9/1/2016			13.9						
9/2/2016				11.2					
9/13/2016									
9/14/2016					23.5				
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016					23.7				
11/8/2016									
11/14/2016				7.79					
11/15/2016			13.5						
11/16/2016		3.79							
11/28/2016	9.47 (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 10/20/2023 11:07 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWA-40 (bg)	YGWC-41
5/2/2017									
5/8/2017	14.2								
5/9/2017			14.4	13.9					
5/10/2017		7.9							
5/26/2017					26.2				
6/27/2017									
6/28/2017					26.1				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017		6.71							
7/13/2017			14.1	16.6					
7/17/2017	14.1								
9/22/2017				18.4					
9/29/2017				16.1					
10/3/2017					26.7				
10/4/2017									
10/5/2017									
10/6/2017				16.6					
10/10/2017									
10/11/2017			12.4	18.1		2.74			
10/12/2017		7.05					190	2.9	44.5
10/16/2017	13.6								
11/20/2017						1.81	184	10.4	
11/21/2017									44.4
1/10/2018								10.2	
1/11/2018						1.54			43.9
1/12/2018							178		
2/19/2018	<25							<25	45.3
2/20/2018						1.71	184		
4/2/2018									
4/3/2018						1.4	174	6.3	42.7
4/4/2018		8.6	<25						
6/5/2018									
6/6/2018									
6/7/2018					25				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				18.7 (J)					
6/27/2018									42.2
6/28/2018						1.4	190	6.7	
8/6/2018	11.4 (J)								
8/7/2018						1.2	176	6.3	40.7
9/19/2018									
9/20/2018		15.9 (J)	12 (J)						
9/24/2018						1.1	172	5.7	38.5
9/25/2018									
9/26/2018				19.8 (J)					
9/27/2018									
10/1/2018					25				

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/20/2023 11:07 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWA-40 (bg)	YGWC-41
10/2/2018									
2/25/2019	12.7 (J)								
3/26/2019								5.6	
3/27/2019						1.5	155		
3/28/2019		8.9	11.3 (J)						26
3/29/2019					23.5 (J)				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				16.9 (J)					
6/12/2019	18.9								
9/24/2019					26.4				
9/25/2019									
9/26/2019			12.1	11.7					
9/27/2019									
10/8/2019	28.3								
10/9/2019		18.2				2.4	133	4.9	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	87	4.6	16.4
8/19/2021									
8/20/2021	26.5								
8/25/2021									
8/26/2021						14.1	73.6		12.8
8/27/2021					22.6				
9/1/2021			12.1						
9/3/2021				4.1				5.6	
9/27/2021		4.1							
2/8/2022	25.6	9.9	12.7			15.2		6	15
2/9/2022					23.4				
2/10/2022							68.9		
2/11/2022				4.6					
8/30/2022	23.5				25.4				
8/31/2022			11.6			16.3		6.2	
9/1/2022		10.7		6.3			59.4		12.9
2/7/2023	22.3				25.6	16.1			
2/8/2023		11					55.3	5.9	14.4
2/9/2023			11.8	9.2					
2/10/2023									
8/15/2023	20.3				23.2	17.2		5.3	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/20/2023 11:07 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWA-40 (bg)	YGWC-41
8/16/2023		10.7	11.1	20			50.9		13.5

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/20/2023 11:07 AM 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-14S (bg)	YGWA-4I (bg)	YGWA-5I (bg)	YGWA-5D (bg)
6/1/2016	1.3	1.6	1.3						
6/2/2016				1.4	1.9	4.1	3.7	4.3	7.2
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	1.3	1.4			1.7				
7/26/2016			1.2	1.6		4	3.6	4.4	6.6
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						3.4	3.8	6.6
9/15/2016				1.5		4.2			
9/16/2016									
9/19/2016					1.6				
9/20/2016									
11/1/2016	1.4		1.3	1.7	1.8				
11/2/2016						4.9	4.5		7.6
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	1.7	4.1			
4/27/2017		1.3	1						
4/28/2017									
5/1/2017							4.3		7.2

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/20/2023 11:07 AM 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-14S (bg)	YGWA-4I (bg)	YGWA-5I (bg)	YGWA-5D (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					1.8	3.7			
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017		1.7	1.1					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			4.4	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	5.1	4.8
9/27/2018									
10/1/2018	1.2	1.4	1.1	1.5		3.8			

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/20/2023 11:07 AM 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-14S (bg)	YGWA-4I (bg)	YGWA-5I (bg)	YGWA-5D (bg)
10/2/2018					1.8				
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019		1.5	1.4						
3/29/2019						4.2			
4/1/2019	1.1			1.2	1.7				
4/2/2019									
4/3/2019							4.3	4.2	4
4/4/2019									
6/12/2019									
9/24/2019		1.3	1.1					4.5	3.7
9/25/2019	1.1			1.1	1.6	4.8	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								4.3	3.5
3/25/2020							3.9		
3/26/2020									
9/22/2020							4.5	4.2	3.6
9/23/2020	1	1.2	0.99 (J)	1.1					
9/24/2020					1.5				
9/25/2020						5.3			
10/7/2020									
3/1/2021					1.6				
3/2/2021						4.9		4.3	3.2
3/3/2021	0.99 (J)	1.2	0.96 (J)	1.1			4.1		
3/4/2021									
8/19/2021		1.3	1.1	1.1	1.6	5			
8/20/2021									
8/25/2021									
8/26/2021							4.4	4.3	3.4
8/27/2021	1.1								
9/1/2021									
9/3/2021									
9/27/2021									
2/8/2022									
2/9/2022	1.1	1.3	1	1.1					
2/10/2022						4.7		4.4	3.2
2/11/2022					2.1		4.1		
8/30/2022			1.3					4.4	3.5
8/31/2022	1.3	1.5		1.3	1.8	4.6	4.4		
9/1/2022									
2/7/2023		1.5	1.3						3.3
2/8/2023	1.1			1.2	1.6	4.9			
2/9/2023							4.5	5	
2/10/2023									
8/15/2023		1.4	1.1	1.1		4.1	4.4	4.1	3.1

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/20/2023 11:07 AM 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-14S (bg)	YGWA-4I (bg)	YGWA-5I (bg)	YGWA-5D (bg)
8/16/2023	1.1				1.5				

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/20/2023 11:07 AM 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	YGWA-47 (bg)	YGWC-42
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								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	7.4	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 10/20/2023 11:07 AM 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	YGWA-47 (bg)	YGWC-42
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								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	7.8	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 10/20/2023 11:07 AM 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	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	6.3	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		3.5	3.4
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 10/20/2023 11:07 AM 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	YGWA-47 (bg)	YGWC-42
8/16/2023						2.7	8.1		2.8

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/20/2023 11:07 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWA-40 (bg)	YGWC-41
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016									
7/26/2016									
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016	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 10/20/2023 11:07 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWA-40 (bg)	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					6	3.8	3.1
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							4.6	3.5
2/20/2018						2	6.2		
4/2/2018									
4/3/2018						3.3	6.9	5.9	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	6.4	5	
8/6/2018	3.8								
8/7/2018						1.2	5.5	4.3	3.3
9/19/2018									
9/20/2018		1.9	4.8						
9/24/2018						1.3	5.9	4.9	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 10/20/2023 11:07 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWA-40 (bg)	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	5.1	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	3.9	4.9	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	5.7	2.1	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					3.9	6.9	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 10/20/2023 11:07 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWA-40 (bg)	YGWC-41
8/16/2023		2.3	3.8	4.9			3.7		3.7

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/20/2023 11:07 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/1/2016	<0.1	0.12 (J)	0.15 (J)						
6/2/2016				<0.1	<0.1	0.62	<0.1	<0.1	0.11 (J)
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	0.06 (J)		0.14 (J)		0.06 (J)				
7/26/2016		0.08 (J)		0.02 (J)		0.49	<0.1	<0.1	0.05 (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	<0.1	0.11 (J)							
9/14/2016			0.18 (J)				<0.1	<0.1	0.04 (J)
9/15/2016				<0.1		0.54			
9/16/2016									
9/19/2016					<0.1				
9/20/2016									
11/1/2016		<0.1	<0.1		<0.1	0.68			
11/2/2016				<0.1				<0.1	<0.1
11/3/2016									
11/4/2016	<0.1						<0.1		
11/8/2016									
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017				<0.1					
1/11/2017		0.05 (J)	0.09 (J)			0.49			
1/12/2017							<0.1		0.04 (J)
1/13/2017								<0.1	
1/16/2017	<0.1				<0.1				
1/17/2017									
2/21/2017					<0.1				
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017			<0.1						
3/2/2017	<0.1	<0.1				0.48			
3/3/2017									
3/6/2017								<0.1	
3/7/2017							<0.1		<0.1
3/8/2017				<0.1					
3/9/2017									
4/26/2017			0.08 (J)	<0.1	<0.1	0.48			
4/27/2017	0.01 (J)	0.04 (J)							
4/28/2017									
5/1/2017								<0.1	<0.1

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/20/2023 11:07 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-5D (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 10/20/2023 11:07 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-5D (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	<0.1	0.052 (J)	0.13 (J)			0.53			
3/4/2019							<0.1	<0.1	0.19 (J)
3/5/2019									
3/6/2019									
3/26/2019									
3/27/2019									
3/28/2019	<0.1	0.036 (J)							
3/29/2019				<0.1					
4/1/2019			0.1 (J)		<0.1	0.45			
4/2/2019									
4/3/2019							<0.1	<0.1	0.047 (J)
4/4/2019									
6/12/2019									
8/19/2019									
8/20/2019									
8/21/2019									
8/22/2019									
9/24/2019	<0.1	0.063 (J)					<0.1		0.05 (J)
9/25/2019			0.1 (J)	<0.1	<0.1	0.46		<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				<0.1	<0.1	0.4	<0.1	<0.1	<0.1
3/17/2020									
3/18/2020	<0.1			<0.1					
3/19/2020		0.064 (J)	0.11 (J)		<0.1	0.51			
3/24/2020							<0.1		<0.1
3/25/2020								<0.1	
3/26/2020									
8/26/2020									
8/27/2020									
9/22/2020							<0.1	<0.1	0.056 (J)
9/23/2020	<0.1	0.058 (J)	0.098 (J)			0.47			
9/24/2020					<0.1				
9/25/2020				<0.1					
10/7/2020									
2/8/2021							<0.1		0.055 (J)
2/9/2021								<0.1	
2/10/2021			<0.1	<0.1		0.43			
2/11/2021					<0.1				
2/12/2021	<0.1	0.068 (J)							
3/1/2021					<0.1				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/20/2023 11:07 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-5D (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	<0.1	0.074 (J)		<0.1	<0.1	0.47			
8/20/2021									
8/25/2021									
8/26/2021							<0.1	<0.1	0.061 (J)
8/27/2021			0.12						
9/1/2021									
9/3/2021									
9/27/2021									
2/8/2022									
2/9/2022	<0.1	0.057 (J)	0.097 (J)			0.43			
2/10/2022				<0.1			<0.1		0.055 (J)
2/11/2022					<0.1			<0.1	
8/30/2022		0.093 (J)					<0.1		0.085 (J)
8/31/2022	0.065 (J)		0.13	0.053 (J)	0.06 (J)	0.42		0.061 (J)	
9/1/2022									
2/7/2023	0.071 (J)	0.093 (J)							0.082 (J)
2/8/2023			0.16	0.059 (J)	0.064 (J)	0.56			
2/9/2023							<0.1	0.067 (J)	
2/10/2023									
8/15/2023	<0.1	0.057 (J)		<0.1		0.42	<0.1	<0.1	<0.1
8/16/2023			0.11		<0.1				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/20/2023 11:07 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWC-23S	YGWA-21I (bg)	YGWC-24SB	YGWC-42	YGWA-47 (bg)
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								0.02 (J)	0.09 (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 10/20/2023 11:07 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWC-23S	YGWA-21I (bg)	YGWC-24SB	YGWC-42	YGWA-47 (bg)
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								<0.1	0.07 (J)
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 10/20/2023 11:07 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWC-23S	YGWA-21I (bg)	YGWC-24SB	YGWC-42	YGWA-47 (bg)
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								<0.1	0.081 (J)
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 10/20/2023 11:07 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWC-23S	YGWA-21I (bg)	YGWC-24SB	YGWC-42	YGWA-47 (bg)
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			0.08 (J)	0.077 (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	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/20/2023 11:07 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	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	0.12 (J)	0.14 (J)							
9/1/2016			0.09 (J)						
9/2/2016				0.05 (J)					
9/13/2016									
9/14/2016					0.08 (J)				
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016					<0.1				
11/8/2016									
11/14/2016				0.18 (J)					
11/15/2016			0.16 (J)						
11/16/2016	0.2 (J)								
11/28/2016		0.12 (J)							
12/15/2016					0.06 (J)				
1/10/2017									
1/11/2017									
1/12/2017									
1/13/2017									
1/16/2017					0.1 (J)				
1/17/2017									
2/21/2017									
2/22/2017		0.09 (J)							
2/24/2017	0.21 (J)								
2/27/2017			0.06 (J)						
2/28/2017				0.09 (J)					
3/1/2017									
3/2/2017									
3/3/2017					<0.1				
3/6/2017									
3/7/2017									
3/8/2017									
3/9/2017									
4/26/2017									
4/27/2017									
4/28/2017					0.06 (J)				
5/1/2017									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/20/2023 11:07 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
5/2/2017									
5/8/2017		0.05 (J)							
5/9/2017			0.05 (J)	0.009 (J)					
5/10/2017	0.04 (J)								
5/26/2017					0.09 (J)				
6/27/2017									
6/28/2017					0.11 (J)				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017	0.2 (J)								
7/13/2017			<0.1	<0.1					
7/17/2017		0.14 (J)							
9/22/2017				0.09 (J)					
9/29/2017				<0.1					
10/3/2017					<0.1				
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	<0.1	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		0.17					<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	<0.1	0.43	
8/6/2018		0.087 (J)							
8/7/2018						0.048 (J)	<0.1	<0.1	0.11 (J)
9/19/2018									
9/20/2018	<0.1		<0.1						
9/24/2018						<0.1	<0.1	0.034 (J)	<0.1

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/20/2023 11:07 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
9/25/2018									
9/26/2018				<0.1					
9/27/2018									
10/1/2018					<0.1				
10/2/2018									
2/25/2019		0.14 (J)							
2/26/2019									
2/27/2019					0.12 (J)				
3/4/2019									
3/5/2019									
3/6/2019				<0.1					
3/26/2019							<0.1		
3/27/2019						<0.1		0.24 (J)	
3/28/2019	0.078 (J)		<0.1						0.1 (J)
3/29/2019					0.13 (J)				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				0.043 (J)					
6/12/2019		0.12 (J)							
8/19/2019		<0.1							
8/20/2019									
8/21/2019	0.062 (J)					<0.1	<0.1		
8/22/2019								<0.1	<0.1
9/24/2019					0.081 (J)				
9/25/2019									
9/26/2019			0.09 (J)	0.094 (J)					
9/27/2019									
10/8/2019		0.052 (J)							
10/9/2019	<0.1					<0.1	<0.1	<0.1	<0.1
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 10/20/2023 11:07 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
3/2/2021		0.073 (J)							
3/3/2021					0.085 (J)				
3/4/2021	0.063 (J)		<0.1	<0.1		<0.1	<0.1	<0.1	<0.1
8/19/2021									
8/20/2021		0.06 (J)							
8/25/2021									
8/26/2021						0.063 (J)		<0.1	<0.1
8/27/2021					0.12				
9/1/2021			<0.1						
9/3/2021				<0.1			<0.1		
9/27/2021	0.1								
2/8/2022	0.066 (J)	0.064 (J)	<0.1			0.052 (J)	<0.1		<0.1
2/9/2022					0.094 (J)				
2/10/2022								<0.1	
2/11/2022				<0.1					
8/30/2022		0.086 (J)			0.12				
8/31/2022			<0.1			0.065 (J)	0.05 (J)		
9/1/2022	0.091 (J)			<0.1				<0.1	<0.1
2/7/2023		0.095 (J)			0.12	0.076 (J)			
2/8/2023	0.11						<0.1	<0.1	<0.1
2/9/2023			<0.1	<0.1					
2/10/2023									
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

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/20/2023 11:07 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-5I (bg)
8/27/2008	6.53								
3/3/2009	6.35								
11/18/2009	6.47								
3/3/2010	6.53								
3/10/2011	5.83								
9/8/2011	5.69								
3/5/2012	6.27								
9/10/2012	6.23								
2/6/2013	7.56								
8/12/2013	6.68								
2/5/2014	6.32								
8/3/2015	6.13 (D)								
2/16/2016	5.64								
6/1/2016		7.72	7.46	6.33					
6/2/2016					7.67	7.84	5.46	5.75	5.75
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016		7.74		6.21				5.82	
7/26/2016			7.43		7.66	7.88	5.45		5.72
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			7.6				5.74
9/15/2016						7.74	5.45		
9/16/2016									
9/19/2016								5.78 (D)	
9/20/2016									
11/1/2016		7.7	7.24			7.75		5.62	
11/2/2016					7.35		5.41		
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		7.53	7.3			7.66			
1/12/2017					7.49				5.71
1/13/2017									
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 10/20/2023 11:07 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-5I (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									
3/7/2017					7.43				5.66
3/8/2017							5.41		
3/9/2017									
4/26/2017		7.4				7.45	5.02	5.56	
4/27/2017			6.99	6.09					
4/28/2017									
5/1/2017					7.22				
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	7.32				5.7
6/28/2017		7.5				7.65			
6/29/2017									
6/30/2017							5.39	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	7.48				5.79
10/4/2017		7.45				7.49		5.87	
10/5/2017							5.49		
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017	6.12								
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018	6.13								
2/20/2018									
3/27/2018				6.25			5.47	5.83	
3/28/2018		7.74				7.91			
3/29/2018			7.38		7.02				5.63
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 10/20/2023 11:07 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-5I (bg)
6/6/2018				6.17	7.43				
6/7/2018						7.69			5.63
6/8/2018		7.64					5.45		
6/11/2018								5.69	
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018	6.01								
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									
9/25/2018									
9/26/2018					7.13				5.63
9/27/2018									
10/1/2018		7.47	6.8	5.9		7.39	5.39		
10/2/2018								5.39	
2/25/2019	6.51								
2/26/2019							5.46	5.77	
2/27/2019		7.54	6.84	5.8		7.55			
3/4/2019					7.46				5.75
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		5.62	
4/2/2019									
4/3/2019					7.11				5.63
4/4/2019									
6/12/2019	6.3								
8/19/2019	6.23								
8/20/2019									
8/21/2019									
8/22/2019									
9/24/2019			7.07	6.23	6.93				5.6
9/25/2019		7.47				7.64	5.19	5.69	
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					7.52	7.83	5.48	5.8	5.83
3/17/2020	6.14								
3/18/2020				6.19			5.38		
3/19/2020		7.31	7.03			7.65		6	
3/24/2020					7.34				5.81
3/25/2020									
3/26/2020									

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/20/2023 11:07 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-5I (bg)
5/6/2020	6.24								
8/26/2020	5.67								
8/27/2020									
9/22/2020	5.78				7.19 (D)				5.99 (D)
9/23/2020		7.37	7.15	6.01		7.57			
9/24/2020								5.67	
9/25/2020							5.44		
10/7/2020									
2/8/2021									5.67
2/9/2021									
2/10/2021		7.58				7.81	5.35		
2/11/2021								5.73	
2/12/2021			7.14	6.21					
3/1/2021								5.78	
3/2/2021	5.42				7.15		5.49		5.63
3/3/2021		8.23	7.2	5.38		8.39			
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					7.16				5.51
8/27/2021		7.39							
9/1/2021									
9/3/2021									
9/27/2021									
2/8/2022	5.83								
2/9/2022		7.66	7.12	6.24		7.97			
2/10/2022					6.99		4.5		5.14
2/11/2022								5.59	
8/30/2022	5.39		7.2		7.4				5
8/31/2022		7.49		5.64		7.65	5.15	5.87	
9/1/2022									
2/7/2023	5.94		7.86	6.53	6.64				
2/8/2023		7.73				7.88	5.39	6.43	
2/9/2023									5.9
2/10/2023									
8/15/2023	5.3		6.98	5.88	7.34	7.69	5.03		5.58
8/16/2023		7.39						5.55	

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/20/2023 11:07 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-4I (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWC-23S	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-24SB	YGWC-42
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	6.36								
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									
7/26/2016	6.22								
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									5.64
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016									
9/14/2016	6.23								
9/15/2016									
9/16/2016						5.58			
9/19/2016		6.04	5.59		5.73		6.12		
9/20/2016				5.53				5.61	
11/1/2016									
11/2/2016	6.08				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									
11/15/2016									
11/16/2016									6.21
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017		6.05	5.48			5.59			
1/12/2017									
1/13/2017	6.19				5.79		6.41		
1/16/2017				5.59					
1/17/2017								5.53	
2/21/2017									
2/22/2017									
2/24/2017									

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/20/2023 11:07 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-4I (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWC-23S	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-24SB	YGWC-42
2/27/2017									6.09
2/28/2017									
3/1/2017		5.94	5.41						
3/2/2017						5.54			
3/3/2017									
3/6/2017	6.2				5.63		6.34		
3/7/2017									
3/8/2017								5.62	
3/9/2017				5.56					
4/26/2017		5.99	5.4		5.66		6.32		
4/27/2017									
4/28/2017									
5/1/2017	6.21								
5/2/2017				5.61		5.47		5.46	
5/8/2017									
5/9/2017									
5/10/2017									5.79
5/26/2017									
6/27/2017									
6/28/2017		6	5.36						
6/29/2017	6.21				5.85	5.56	6.47		
6/30/2017									
7/7/2017								5.81	
7/10/2017				5.68					
7/11/2017									5.45
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017							6.56		
10/4/2017			5.32		5.83	5.57			
10/5/2017	6.16	6.11						5.45	
10/6/2017									
10/10/2017									
10/11/2017				5.46					
10/12/2017									5.48
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
3/27/2018									
3/28/2018		6.1	5.34			5.59			
3/29/2018	6.09				5.93		6.75		
3/30/2018				5.73				5.64	
4/2/2018									
4/3/2018									
4/4/2018									5.93
6/5/2018							6.09		

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/20/2023 11:07 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-4I (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWC-23S	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-24SB	YGWC-42
6/6/2018					5.86				
6/7/2018	6.12	5.98							
6/8/2018									
6/11/2018			5.28			5.58			
6/12/2018				5.63				5.64	
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/20/2018									5.63
9/24/2018									
9/25/2018		5.81	4.86		5.84	5.59	6.67		
9/26/2018	5.84							5.61	
9/27/2018				5.47					
10/1/2018									
10/2/2018									
2/25/2019									
2/26/2019									
2/27/2019									
3/4/2019	6.18								
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									5.57
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019						5.74	6.94		
4/3/2019	6.43	6.29	5.47		5.71				
4/4/2019				5.64				5.66	
6/12/2019									
8/19/2019									
8/20/2019									
8/21/2019									
8/22/2019									5.61
9/24/2019							6.87		
9/25/2019	6.2				5.86	5.49			
9/26/2019		6.04	5.2					5.52	
9/27/2019				5.77					
10/8/2019									
10/9/2019									5.5
2/10/2020									
2/11/2020		6.07	5.3			5.58			
2/12/2020	6.15				6		7.13		
3/17/2020									
3/18/2020									
3/19/2020									
3/24/2020		5.98	5.33		5.86	5.57	6.35		
3/25/2020	6.26								5.53
3/26/2020				5.69				5.51	

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/20/2023 11:07 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-4I (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWC-23S	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-24SB	YGWC-42
5/6/2020									
8/26/2020									
8/27/2020									
9/22/2020	5.8 (D)								
9/23/2020		6.01 (D)	5.29 (D)			5.58 (D)		5.64	
9/24/2020				5.51	5.8 (D)		6.7 (D)		5.55
9/25/2020									
10/7/2020									
2/8/2021									
2/9/2021	6.06	6.12	5.43	5.61	5.86		6.95	5.69	
2/10/2021									5.65
2/11/2021									
2/12/2021									
3/1/2021									
3/2/2021									
3/3/2021	6.21	5.89	5.31		5.89	5.52		5.7	
3/4/2021				5.44			6.8		5.59
8/19/2021									
8/20/2021									
8/25/2021				5.46					6.73
8/26/2021	5.82		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									
2/9/2022		5.98	5.28		5.91	5.53	6.84		
2/10/2022				5.51				4.66	5.57
2/11/2022	5.95								
8/30/2022		5.82	5.18			4.68	6.58		
8/31/2022	5.5				5.38				
9/1/2022				5.27					5.49
2/7/2023		6	5.03		5.63	5.47	6.82		
2/8/2023				5.33					5.48
2/9/2023	6.23								
2/10/2023								5.67	
8/15/2023	5.99	5.82	5.2		7	5.54	6.84		
8/16/2023				5.36				5.89	5.53

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/20/2023 11:07 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-47 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWA-40 (bg)	YGWC-38
8/27/2008									
3/3/2009									
11/18/2009									
3/3/2010									
3/10/2011									
9/8/2011									
3/5/2012									
9/10/2012									
2/6/2013									
8/12/2013									
2/5/2014									
8/3/2015									
2/16/2016									
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016									
7/26/2016									
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016	5.75								
8/31/2016		7.27							
9/1/2016			5.78						
9/2/2016				5.84					
9/13/2016					7.41				
9/14/2016									
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016					7.12				
11/8/2016									
11/14/2016	5.59			6.28					
11/15/2016			5.81						
11/16/2016		6.79							
11/28/2016									
12/15/2016					7.24				
1/10/2017									
1/11/2017									
1/12/2017									
1/13/2017									
1/16/2017					7.24				
1/17/2017									
2/21/2017									
2/22/2017									
2/24/2017	5.49	6.39							

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/20/2023 11:07 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-47 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWA-40 (bg)	YGWC-38
2/27/2017			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	5.58								
5/9/2017			6.18	6.3					
5/10/2017		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	5.58	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	5.49								
10/11/2017			5.61	5.47		6.4			
10/12/2017		5.97					4.94	5.43	4.85
10/16/2017									
11/20/2017						6.33		5.1	4.87
11/21/2017							4.69		
1/10/2018								4.97	
1/11/2018						6.29	4.73		
1/12/2018									4.78
2/19/2018							4.96	5.6	
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	6.3 (O)								
4/3/2018						6.87	5.31	5.84	4.76
4/4/2018		6.41	5.98						
6/5/2018									

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/20/2023 11:07 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-47 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWA-40 (bg)	YGWC-38
6/6/2018									
6/7/2018					7.29				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				5.5					
6/27/2018							4.78		
6/28/2018						6.18		5.24	4.75
8/6/2018									
8/7/2018						6.08	4.77	5.18	4.72
9/19/2018	5.48								
9/20/2018		5.69	5.67						
9/24/2018						5.81	4.78	5.14	4.67
9/25/2018									
9/26/2018				5.53					
9/27/2018									
10/1/2018					7.07				
10/2/2018									
2/25/2019									
2/26/2019									
2/27/2019					7.27				
3/4/2019									
3/5/2019									
3/6/2019				5.21					
3/26/2019								5.3	
3/27/2019	5.83					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	5.58								
8/21/2019		5.84				5.96		5.26	
8/22/2019							4.89		4.81
9/24/2019					7.01				
9/25/2019									
9/26/2019			5.6	5.51					
9/27/2019									
10/8/2019	5.59								
10/9/2019		5.78				5.81	4.86	5.22	4.8
2/10/2020									
2/11/2020					7.38				
2/12/2020						5.97		5.3	
3/17/2020	5.57								
3/18/2020									
3/19/2020					7.22				
3/24/2020								5.29	
3/25/2020		5.79	5.69	5.49		5.78	4.87		4.89
3/26/2020									

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/20/2023 11:07 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-47 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWA-40 (bg)	YGWC-38
5/6/2020									
8/26/2020									
8/27/2020	4.88								
9/22/2020	5.46								
9/23/2020					7.22				
9/24/2020			5.62			5.7 (D)		5.43 (D)	
9/25/2020		5.75					4.95		4.9
10/7/2020				5.86					
2/8/2021									
2/9/2021		5.86	5.79						5.04
2/10/2021				6.31	7.29	5.8	4.98	5.19	
2/11/2021									
2/12/2021									
3/1/2021	5.48								
3/2/2021									
3/3/2021					7.92				
3/4/2021		5.88	5.88	5.67		5.54	4.69	5.23	5.01
8/19/2021	5.5								
8/20/2021									
8/25/2021									
8/26/2021						6.91	6.77		4.54
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	5.4	5.82 (D)	5.79 (D)			5.78	5.07 (D)	5.26	
2/9/2022					5.89				
2/10/2022									4.85
2/11/2022				5.58					
8/30/2022					7.04				
8/31/2022	5.32		5.34			5.3		4.53	
9/1/2022		5.62		5.18			4.43		4.91
2/7/2023					6.94	5.49			
2/8/2023	5.22	5.4					4.69	5.71	5.16
2/9/2023			5.61	5.67					
2/10/2023									
8/15/2023	5.69				6.96	5.78		5	
8/16/2023		5.58	5.04	5.36			5.01		4.83

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/20/2023 11:07 AM 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-14S (bg)	YGWA-4I (bg)	YGWA-5I (bg)	YGWA-5D (bg)
6/1/2016	12	4.2	5						
6/2/2016				5.8	1.3	6.6	8	1.9	20
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	8.4	3.7			1.2				
7/26/2016			5.4	6.7		6.1	7.7	1.8	20
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016		5.2	2.9						
9/14/2016	8.6						7.5	1.8	19
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						6.3	8.2		20
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	1.4	7			
4/27/2017		7.4	5.2						
4/28/2017									
5/1/2017							8.4		20

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/20/2023 11:07 AM 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-14S (bg)	YGWA-4I (bg)	YGWA-5I (bg)	YGWA-5D (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					<1	6.5			
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017		5.9	6.6					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			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							10.2	2.3	7.9
9/27/2018									
10/1/2018	9.1	4	5.6	7.1		6.8			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/20/2023 11:07 AM 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-14S (bg)	YGWA-4I (bg)	YGWA-5I (bg)	YGWA-5D (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							8.5	2.1	7
4/4/2019									
6/12/2019									
9/24/2019		4.3	5.3					2.4	5.5
9/25/2019	13.8			7	0.81 (J)	6.6	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								2.1	5.9
3/25/2020							8.8		
3/26/2020									
9/22/2020							8.2	2.1	5.5
9/23/2020	16.8	3.4	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						6		2.3	2.6
3/3/2021	9.6	4.4	9	7			7.8		
3/4/2021									
8/19/2021		4.9	8.9	7.5	1	6.7			
8/20/2021									
8/25/2021									
8/26/2021							8.5	2.4	6
8/27/2021	18.2								
9/1/2021									
9/3/2021									
9/27/2021									
2/8/2022									
2/9/2022	16	5.1	9.3	7.2					
2/10/2022						6.2		2.4	4.9
2/11/2022					2.8		7.7		
8/30/2022			10.2					2.4	5.7
8/31/2022	13.9	4.8		6.9	1.1	5.8	8		
9/1/2022									
2/7/2023		6.6	10.6						5.2
2/8/2023	14.7			7.5	0.96 (J)	6.1			
2/9/2023							8.9	2.9	
2/10/2023									
8/15/2023		4.6	9.6	6.8		6	7.5	2.2	4.8

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/20/2023 11:07 AM 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-14S (bg)	YGWA-4I (bg)	YGWA-5I (bg)	YGWA-5D (bg)
8/16/2023	20.3				0.9 (J)				

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/20/2023 11:07 AM 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	YGWA-47 (bg)	YGWC-42
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								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	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 10/20/2023 11:07 AM 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	YGWA-47 (bg)	YGWC-42
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								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	1.5	1	0.13 (J)	7	6.1				
9/26/2018							0.28 (J)		
9/27/2018						39.6			
10/1/2018									

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/20/2023 11:07 AM 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	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	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		50.5	494
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 10/20/2023 11:07 AM 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	YGWA-47 (bg)	YGWC-42
8/16/2023						69.3	<1		451

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/20/2023 11:07 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWA-40 (bg)	YGWC-41
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016									
7/26/2016									
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016	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 10/20/2023 11:07 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWA-40 (bg)	YGWC-41
5/2/2017									
5/8/2017	60								
5/9/2017			91	130					
5/10/2017		100							
5/26/2017					12				
6/27/2017									
6/28/2017					11				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017		110							
7/13/2017			88	140					
7/17/2017	63								
9/22/2017				160					
9/29/2017				160					
10/3/2017					7.9				
10/4/2017									
10/5/2017									
10/6/2017				160					
10/10/2017									
10/11/2017			86	150		20			
10/12/2017		120					940	17	400
10/16/2017	62								
11/20/2017						24	980	71	
11/21/2017									430
1/10/2018								66	
1/11/2018						23			390
1/12/2018							880		
2/19/2018	64.6							57.2	414
2/20/2018						20.6	905		
4/2/2018									
4/3/2018						24.5	872	49.4	406
4/4/2018		160	76.5						
6/5/2018									
6/6/2018									
6/7/2018					8.8				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				144					
6/27/2018									357
6/28/2018						22	869	43.8	
8/6/2018	42.1								
8/7/2018						20.7	879	40.5	346
9/19/2018									
9/20/2018		247	84.1						
9/24/2018						21.2	872	39.7	358
9/25/2018									
9/26/2018				160					
9/27/2018									
10/1/2018					9.1				

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/20/2023 11:07 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWA-40 (bg)	YGWC-41
10/2/2018									
2/25/2019	42.1								
3/26/2019								34.3	
3/27/2019						17.7	851		
3/28/2019		181	82.8						258
3/29/2019					9				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				119					
6/12/2019	83.4								
9/24/2019					9.1				
9/25/2019									
9/26/2019			80	84.8					
9/27/2019									
10/8/2019	128								
10/9/2019		279				15	708	27.9	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	356	21.5	117
8/19/2021									
8/20/2021	121								
8/25/2021									
8/26/2021						19.2	328		117
8/27/2021					16.7				
9/1/2021			79.8						
9/3/2021				13.8				21.3	
9/27/2021		56.5							
2/8/2022	107	133	73.9			14.6		17.9	109
2/9/2022					18				
2/10/2022							290		
2/11/2022				16.4					
8/30/2022	101				20.1				
8/31/2022			71			10.9		17.9	
9/1/2022		169		28.2			282		117
2/7/2023	82.4				17.8	9.7			
2/8/2023		164					251	17.5	119
2/9/2023			71.1	50.8					
2/10/2023									
8/15/2023	74.2				17.2	7.6		16.4	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/20/2023 11:07 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWA-40 (bg)	YGWC-41
8/16/2023		151	63.8	93.9			227		104

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/20/2023 11:07 AM 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-14S (bg)	YGWA-4I (bg)	YGWA-5I (bg)	YGWA-5D (bg)
6/1/2016	150	54	120						
6/2/2016				130	36	46	96	66	160
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	135	48			50				
7/26/2016			94	141		54	92	78	177
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016		67	105						
9/14/2016	127						102	73	187
9/15/2016				153		54			
9/16/2016									
9/19/2016					35				
9/20/2016									
11/1/2016	75		44	92	<25				
11/2/2016						71	115		181
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								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		61	98	117					
3/3/2017									
3/6/2017							159		
3/7/2017								108	257
3/8/2017						178			
3/9/2017									
4/26/2017	92			181	55	52			
4/27/2017		31	116						
4/28/2017									
5/1/2017							107		165

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/20/2023 11:07 AM 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-14S (bg)	YGWA-4I (bg)	YGWA-5I (bg)	YGWA-5D (bg)
5/2/2017								103	
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		42	89					73	189
6/28/2017	126			169					
6/29/2017							79		
6/30/2017					42	45			
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017		58	119					89	170
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							116	86	144
9/27/2018									
10/1/2018	138	60	117	165		50			

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/20/2023 11:07 AM 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-14S (bg)	YGWA-4I (bg)	YGWA-5I (bg)	YGWA-5D (bg)
10/2/2018					57				
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019		87	87						
3/29/2019						63			
4/1/2019	19 (J)			149	54				
4/2/2019									
4/3/2019							111	83	142
4/4/2019									
6/12/2019									
9/24/2019		54	124					79	129
9/25/2019	159			157	51	64	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								68	139
3/25/2020							146		
3/26/2020									
9/22/2020							83	75	104
9/23/2020	155	15	108	157					
9/24/2020					51				
9/25/2020						54			
10/7/2020									
3/1/2021					23				
3/2/2021						67		67	52
3/3/2021	111	39	99	137			80		
3/4/2021									
8/19/2021		44	105	144	50	54			
8/20/2021									
8/25/2021									
8/26/2021							93	86	123
8/27/2021	155								
9/1/2021									
9/3/2021									
9/27/2021									
2/8/2022									
2/9/2022	145	57	105	154					
2/10/2022						56		77	127
2/11/2022					66		102		
8/30/2022			116					86	148
8/31/2022	137	46		141	33	51	92		
9/1/2022									
2/7/2023		121	131						180
2/8/2023	145			144	43	56			
2/9/2023							124	59	
2/10/2023									
8/15/2023		65	121	231		69	99	76	219

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/20/2023 11:07 AM 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-14S (bg)	YGWA-4I (bg)	YGWA-5I (bg)	YGWA-5D (bg)
8/16/2023	148				48				

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/20/2023 11:07 AM 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	YGWA-47 (bg)	YGWC-42
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								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		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 10/20/2023 11:07 AM 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	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			68	94	53				
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		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 10/20/2023 11:07 AM 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	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				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		141	853
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 10/20/2023 11:07 AM 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	YGWA-47 (bg)	YGWC-42
8/16/2023						170	68		904

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/20/2023 11:07 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWA-40 (bg)	YGWC-41
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016									
7/26/2016									
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016	209	80							
9/1/2016			228						
9/2/2016				243					
9/13/2016									
9/14/2016					152				
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016					148				
11/8/2016									
11/14/2016				272					
11/15/2016			211						
11/16/2016		112							
11/28/2016	102								
12/15/2016					191				
1/10/2017									
1/11/2017									
1/12/2017									
1/13/2017									
1/16/2017					180				
1/17/2017									
2/21/2017									
2/22/2017	164								
2/24/2017		147							
2/27/2017			382						
2/28/2017				306					
3/1/2017									
3/2/2017									
3/3/2017					156				
3/6/2017									
3/7/2017									
3/8/2017									
3/9/2017									
4/26/2017									
4/27/2017									
4/28/2017					130				
5/1/2017									

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/20/2023 11:07 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWA-40 (bg)	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					1360	74	636
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							119	630
2/20/2018						87	1300		
4/2/2018									
4/3/2018						85	1390	106	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	1310	112	
8/6/2018	158								
8/7/2018						89	1340	103	574
9/19/2018									
9/20/2018		434	186						
9/24/2018						82	1400	107	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 10/20/2023 11:07 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWA-40 (bg)	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	1100	98	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	600	57	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	283	294	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					579	115	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 10/20/2023 11:07 AM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWA-40 (bg)	YGWC-41
8/16/2023		356	159	234			460		266

FIGURE E.

Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Yates Data: Plant Yates AMA-R6 Printed 10/18/2023, 8:52 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	YGWA-39 (bg)	0.02058	92	68	Yes	18	5.556	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)	-0.01353	-106	-68	Yes	18	0	n/a	0.01	NP
Boron (mg/L)	YGWC-38	-3.39	-131	-68	Yes	18	0	n/a	0.01	NP
Boron (mg/L)	YGWC-41	-2.039	-113	-68	Yes	18	0	n/a	0.01	NP
Boron (mg/L)	YGWC-42	-1.582	-104	-68	Yes	18	0	n/a	0.01	NP
Boron (mg/L)	YGWC-43	0.4048	99	68	Yes	18	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.134	143	87	Yes	21	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.0757	-147	-87	Yes	21	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-21I (bg)	0.6806	92	87	Yes	21	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-39 (bg)	2.124	86	68	Yes	18	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-1.349	-113	-87	Yes	21	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-5I (bg)	0.06491	106	87	Yes	21	0	n/a	0.01	NP
Calcium (mg/L)	YGWC-38	-26.92	-139	-68	Yes	18	0	n/a	0.01	NP
Calcium (mg/L)	YGWC-42	-10.82	-113	-68	Yes	18	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-1.099	-122	-68	Yes	18	5.556	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	2.437	87	74	Yes	19	5.263	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.4931	94	87	Yes	21	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.08927	-112	-87	Yes	21	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18I (bg)	-0.1191	-112	-87	Yes	21	19.05	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-2.62	-107	-68	Yes	18	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-7.156	-120	-68	Yes	18	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-2.402	-162	-87	Yes	21	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.08787	138	87	Yes	21	0	n/a	0.01	NP
Sulfate (mg/L)	YGWC-38	-134.8	-142	-68	Yes	18	0	n/a	0.01	NP
Sulfate (mg/L)	YGWC-42	-95.74	-118	-68	Yes	18	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-13.93	-138	-68	Yes	18	0	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)	12.89	88	74	Yes	19	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	0.8971	154	87	Yes	21	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-2I (bg)	1.209	91	87	Yes	21	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.2566	105	87	Yes	21	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3I (bg)	1.155	119	87	Yes	21	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-21I (bg)	9.895	91	87	Yes	21	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-39 (bg)	27.52	85	68	Yes	18	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-38	-176.1	-117	-68	Yes	18	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-41	-97.21	-113	-68	Yes	18	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-42	-128.1	-111	-68	Yes	18	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-43	39.67	83	68	Yes	18	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-47 (bg)	-12.84	-95	-68	Yes	18	0	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limit Exceedances - All Results

Plant Yates Data: Plant Yates AMA-R6 Printed 10/18/2023, 8:52 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	YGWA-17S (bg)	0.0004386	55	87	No	21	14.29	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-14	-87	No	21	80.95	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	0.0006414	54	87	No	21	28.57	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-5	-87	No	21	90.48	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	0	-28	-87	No	21	57.14	n/a	0.01	NP
Boron (mg/L)	**YGWA-39 (bg)**	**0.02058**	**92**	**68**	**Yes**	**18**	**5.556**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWA-40 (bg)**	**-0.01353**	**-106**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-4I (bg)	0	13	87	No	21	71.43	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0006284	65	87	No	21	19.05	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	0	-11	-87	No	21	66.67	n/a	0.01	NP
Boron (mg/L)	YGWC-23S	0.01435	17	87	No	21	0	n/a	0.01	NP
Boron (mg/L)	**YGWC-38**	**-3.39**	**-131**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-41**	**-2.039**	**-113**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-42**	**-1.582**	**-104**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-43**	**0.4048**	**99**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-47 (bg)	-0.0005874	-51	-68	No	18	5.556	n/a	0.01	NP
Boron (mg/L)	GWA-2 (bg)	0	35	74	No	19	68.42	n/a	0.01	NP
Boron (mg/L)	YGWA-14S (bg)	-0.0004045	-54	-87	No	21	9.524	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0.001652	58	87	No	21	42.86	n/a	0.01	NP
Boron (mg/L)	YGWA-1I (bg)	0	-13	-87	No	21	71.43	n/a	0.01	NP
Boron (mg/L)	YGWA-2I (bg)	0	2	87	No	21	80.95	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-13	-87	No	21	85.71	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	16	87	No	21	61.9	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	-13	-87	No	21	90.48	n/a	0.01	NP
Calcium (mg/L)	**YGWA-17S (bg)**	**0.134**	**143**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-18I (bg)	0.05034	39	87	No	21	0	n/a	0.01	NP
Calcium (mg/L)	**YGWA-18S (bg)**	**-0.0757**	**-147**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-20S (bg)	0.02165	43	87	No	21	0	n/a	0.01	NP
Calcium (mg/L)	**YGWA-21I (bg)**	**0.6806**	**92**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-39 (bg)**	**2.124**	**86**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-40 (bg)	-0.3452	-49	-68	No	18	5.556	n/a	0.01	NP
Calcium (mg/L)	YGWA-4I (bg)	0.02012	12	87	No	21	0	n/a	0.01	NP
Calcium (mg/L)	**YGWA-5D (bg)**	**-1.349**	**-113**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-5I (bg)**	**0.06491**	**106**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWC-38**	**-26.92**	**-139**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWC-42**	**-10.82**	**-113**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-47 (bg)**	**-1.099**	**-122**	**-68**	**Yes**	**18**	**5.556**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GWA-2 (bg)**	**2.437**	**87**	**74**	**Yes**	**19**	**5.263**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-14S (bg)	0	18	87	No	21	0	n/a	0.01	NP
Calcium (mg/L)	**YGWA-1D (bg)**	**0.4931**	**94**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-1I (bg)**	**-0.08927**	**-112**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-2I (bg)	0	1	87	No	21	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-30I (bg)	0.02343	63	87	No	21	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-3D (bg)	0.2668	48	87	No	21	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-3I (bg)	0.5543	85	87	No	21	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-17S (bg)	0	5	87	No	21	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-18I (bg)**	**-0.1191**	**-112**	**-87**	**Yes**	**21**	**19.05**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-18S (bg)	-0.112	-71	-87	No	21	9.524	n/a	0.01	NP
Sulfate (mg/L)	YGWA-20S (bg)	0	54	87	No	21	71.43	n/a	0.01	NP
Sulfate (mg/L)	YGWA-21I (bg)	-0.1972	-61	-87	No	21	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-39 (bg)**	**-2.62**	**-107**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-40 (bg)**	**-7.156**	**-120**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-4I (bg)	0.0251	16	87	No	21	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-5D (bg)**	**-2.402**	**-162**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-5I (bg)**	**0.08787**	**138**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests - Prediction Limit Exceedances - All Results

Plant Yates Data: Plant Yates AMA-R6 Printed 10/18/2023, 8:52 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Sulfate (mg/L)	**YGWC-38**	**-134.8**	**-142**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWC-42**	**-95.74**	**-118**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-47 (bg)**	**-13.93**	**-138**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GWA-2 (bg)**	**12.89**	**88**	**74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-14S (bg)	-0.04669	-29	-87	No	21	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-1D (bg)**	**0.8971**	**154**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-1I (bg)	-0.06392	-13	-87	No	21	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-2I (bg)**	**1.209**	**91**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-30I (bg)	-0.03548	-33	-87	No	21	9.524	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-3D (bg)**	**0.2566**	**105**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-3I (bg)**	**1.155**	**119**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	YGWA-17S (bg)	2.283	46	87	No	21	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18I (bg)	-1.363	-33	-87	No	21	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18S (bg)	1.344	26	87	No	21	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-20S (bg)	2.575	48	87	No	21	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**YGWA-21I (bg)**	**9.895**	**91**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWA-39 (bg)**	**27.52**	**85**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	YGWA-40 (bg)	-6.016	-59	-68	No	18	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-4I (bg)	0.6864	14	87	No	21	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)	-0.77	-20	-87	No	21	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**YGWC-38**	**-176.1**	**-117**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWC-41**	**-97.21**	**-113**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWC-42**	**-128.1**	**-111**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWC-43**	**39.67**	**83**	**68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWA-47 (bg)**	**-12.84**	**-95**	**-68**	**Yes**	**18**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	GWA-2 (bg)	14.49	72	74	No	19	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-14S (bg)	0.8282	30	87	No	21	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-1D (bg)	2.147	46	87	No	21	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-1I (bg)	-0.3083	-7	-87	No	21	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-2I (bg)	-0.5892	-11	-87	No	21	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-30I (bg)	1.322	26	87	No	21	9.524	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3D (bg)	1.819	27	87	No	21	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3I (bg)	1.056	15	87	No	21	0	n/a	0.01	NP

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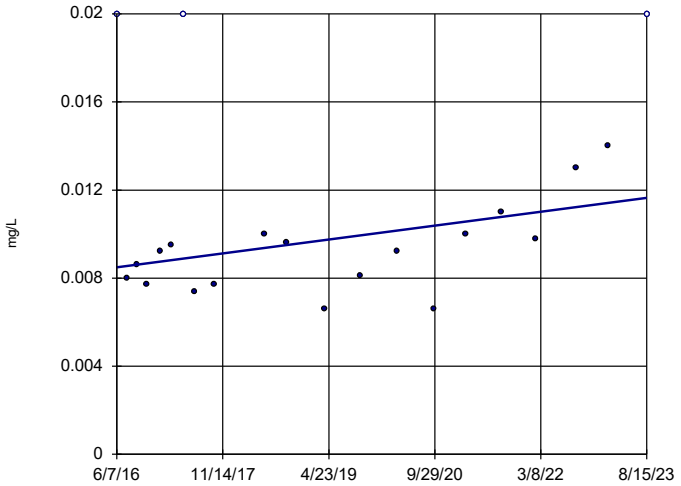
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-17S (bg)



n = 21

Slope = 0.0004386 units per year.

Mann-Kendall statistic = 55
critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/18/2023 8:49 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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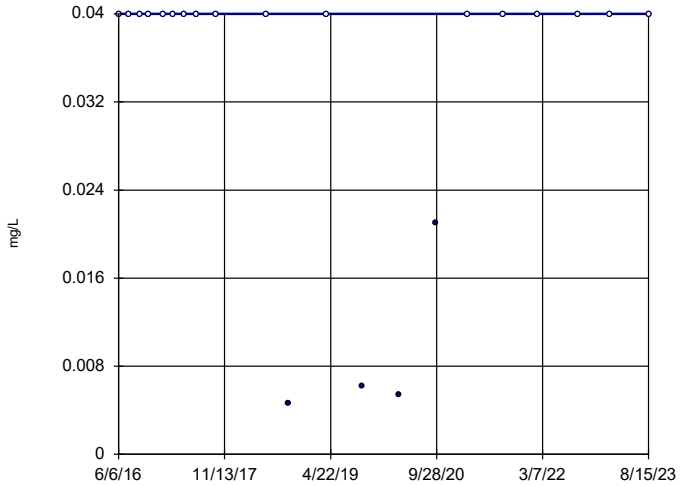
Sen's Slope Estimator

YGWA-18I (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = -14
critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/18/2023 8:49 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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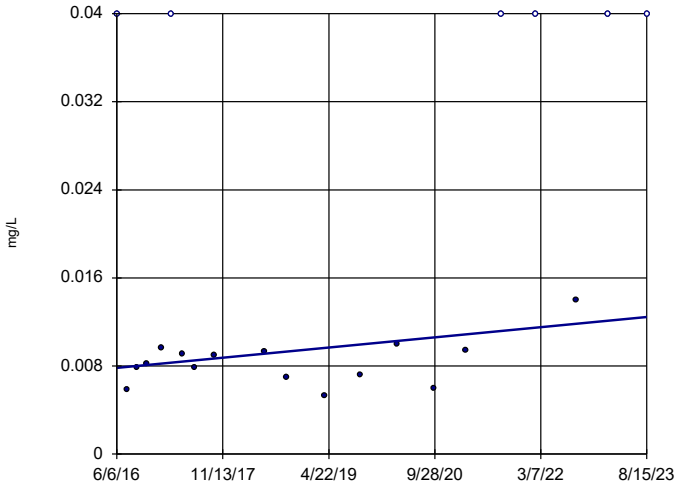
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18S (bg)



n = 21

Slope = 0.0006414 units per year.

Mann-Kendall statistic = 54
critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/18/2023 8:49 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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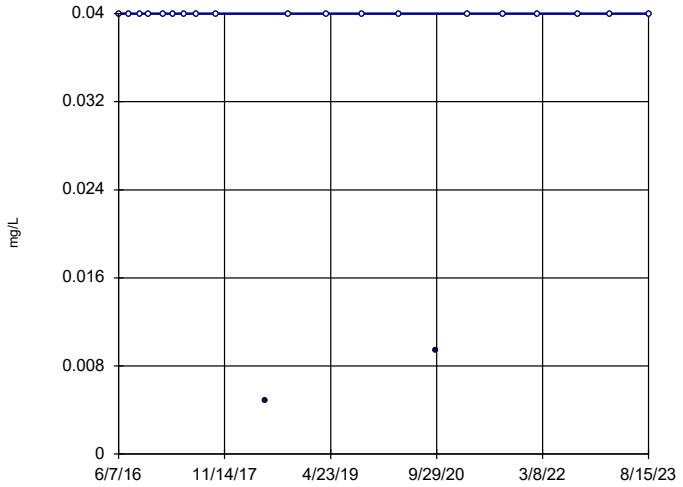
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-20S (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = -5
critical = -87

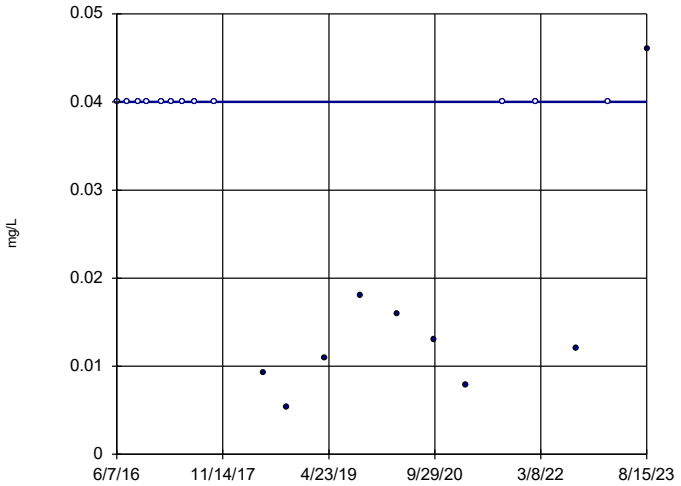
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/18/2023 8:49 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.13 Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-21I (bg)



n = 21

Slope = 0
units per year.

Mann-Kendall
statistic = -28
critical = -87

Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron Analysis Run 10/18/2023 8:49 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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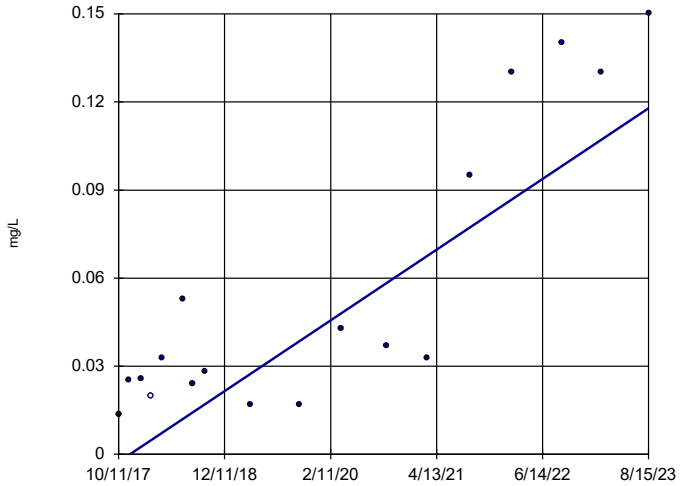
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 18

Slope = 0.02058
units per year.

Mann-Kendall
statistic = 92
critical = 68

Increasing trend
significant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron Analysis Run 10/18/2023 8:49 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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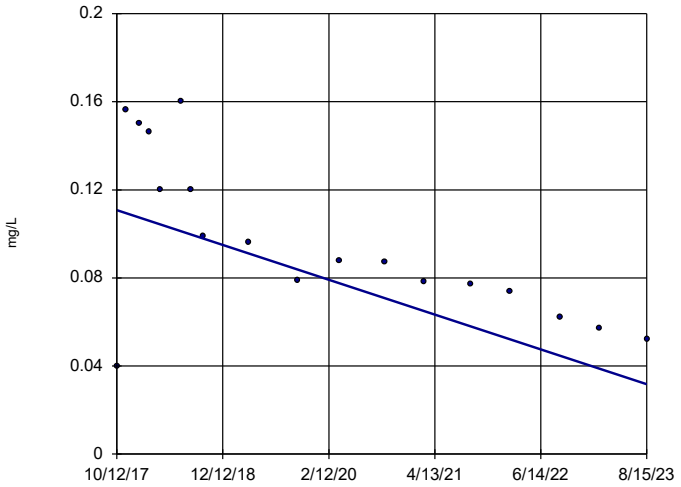
Sen's Slope Estimator

YGWA-40 (bg)



n = 18

Slope = -0.01353
units per year.

Mann-Kendall
statistic = -106
critical = -68

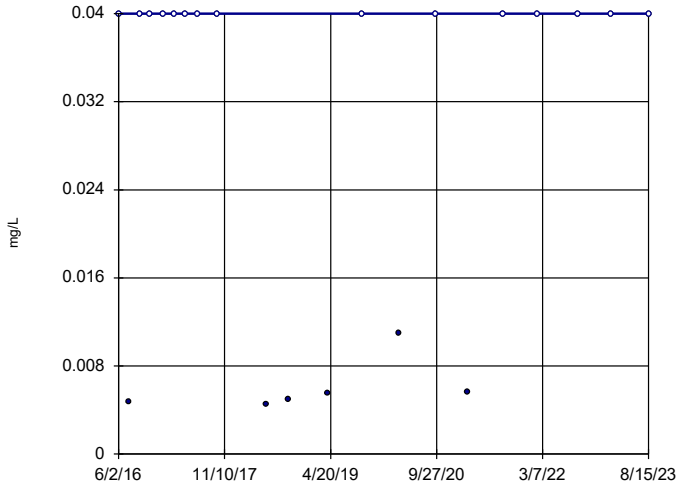
Decreasing trend
significant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron Analysis Run 10/18/2023 8:49 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.13 Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-4I (bg)



n = 21

Slope = 0
units per year.

Mann-Kendall
statistic = 13
critical = 87

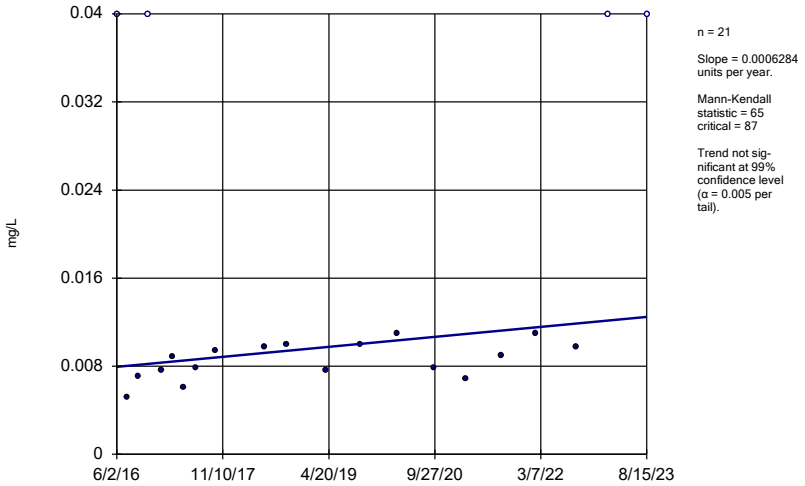
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron Analysis Run 10/18/2023 8:49 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.13 Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5D (bg)



n = 21

Slope = 0.0006284 units per year.

Mann-Kendall statistic = 65
critical = 87

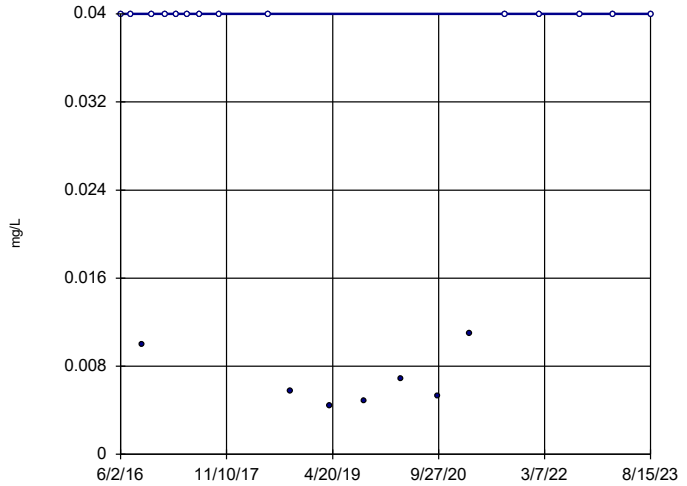
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/18/2023 8:49 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.13 Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5I (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = -11
critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/18/2023 8:49 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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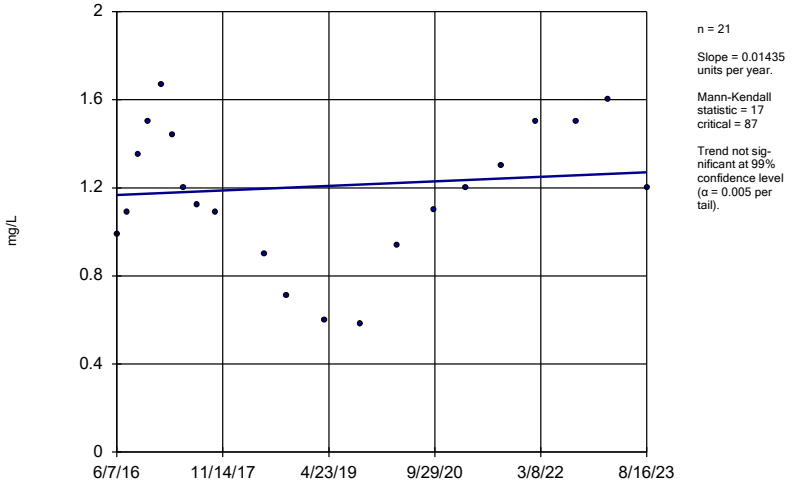
Sen's Slope Estimator

YGWC-23S



n = 21

Slope = 0.01435 units per year.

Mann-Kendall statistic = 17
critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/18/2023 8:49 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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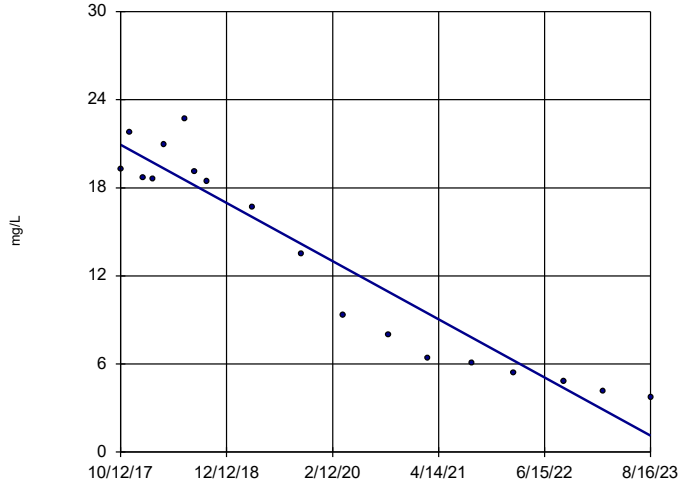
Sen's Slope Estimator

YGWC-38



n = 18

Slope = -3.39 units per year.

Mann-Kendall statistic = -131
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/18/2023 8:49 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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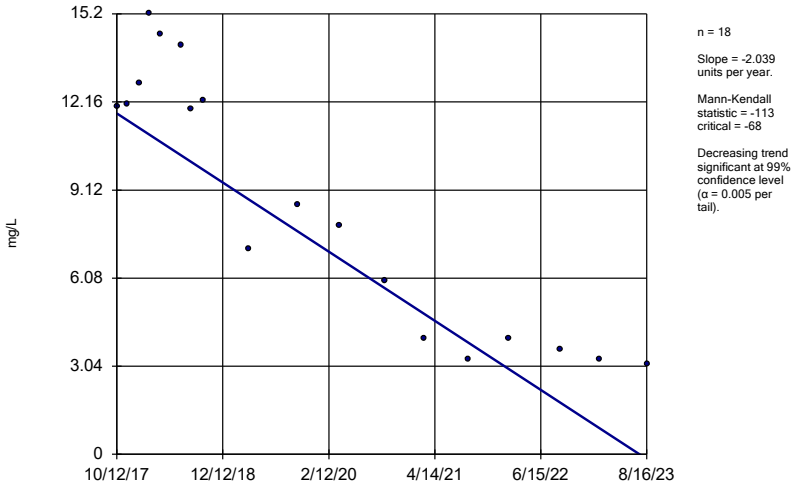
Sen's Slope Estimator

YGWC-41



n = 18

Slope = -2.039 units per year.

Mann-Kendall statistic = -113 critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/18/2023 8:49 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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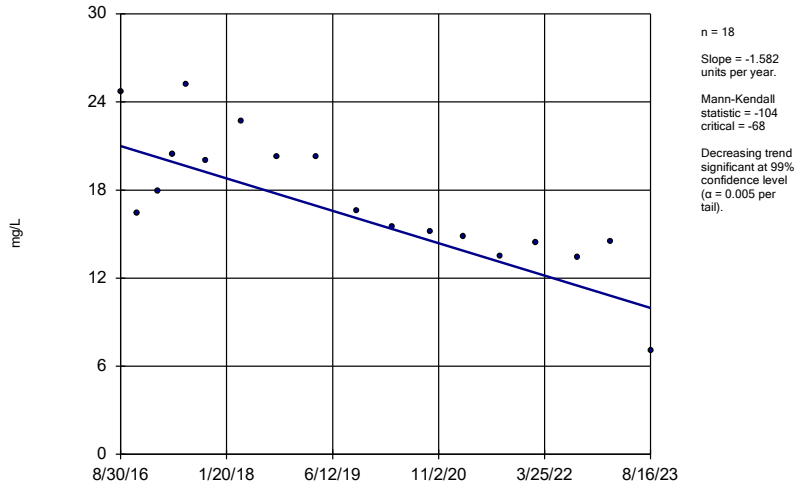
Sen's Slope Estimator

YGWC-42



n = 18

Slope = -1.582 units per year.

Mann-Kendall statistic = -104 critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/18/2023 8:49 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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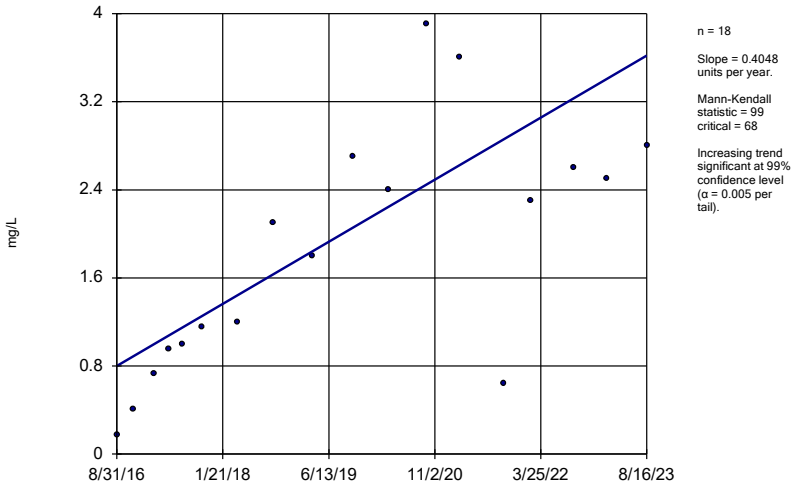
Sen's Slope Estimator

YGWC-43



n = 18

Slope = 0.4048 units per year.

Mann-Kendall statistic = 99 critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/18/2023 8:49 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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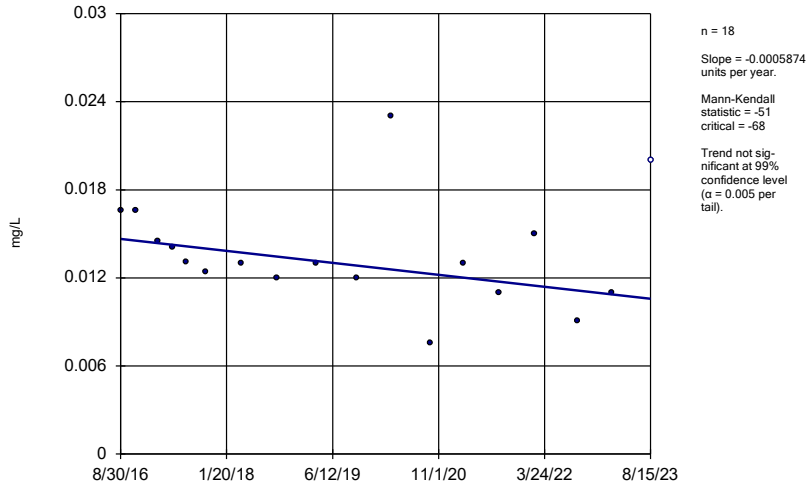
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-47 (bg)



n = 18

Slope = -0.0005874 units per year.

Mann-Kendall statistic = -51 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/18/2023 8:49 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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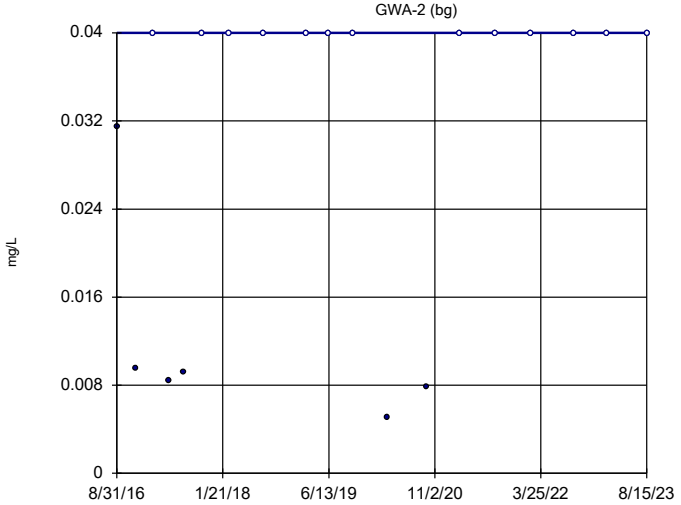
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 35
critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/18/2023 8:49 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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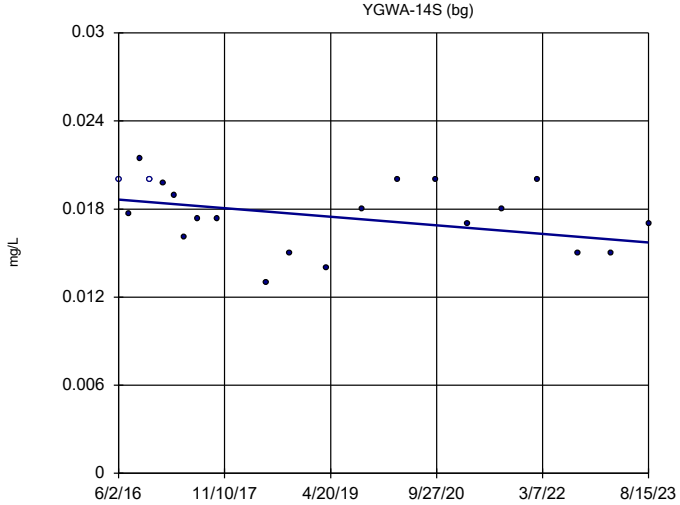
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-14S (bg)



n = 21

Slope = -0.0004045 units per year.

Mann-Kendall statistic = -54
critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/18/2023 8:49 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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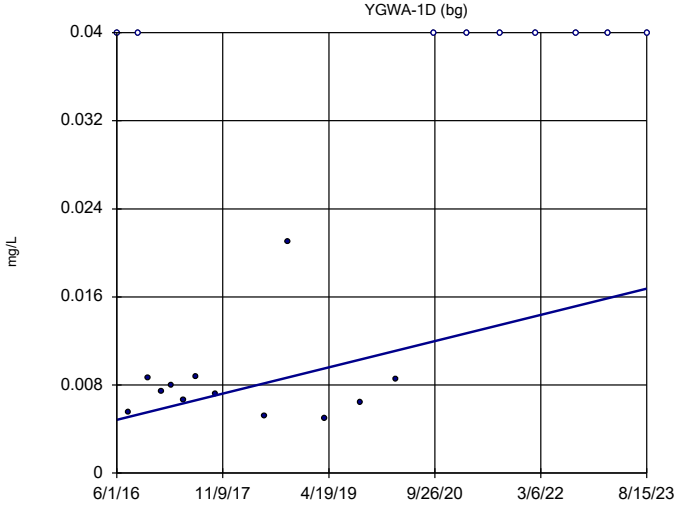
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1D (bg)



n = 21

Slope = 0.001652 units per year.

Mann-Kendall statistic = 58
critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/18/2023 8:49 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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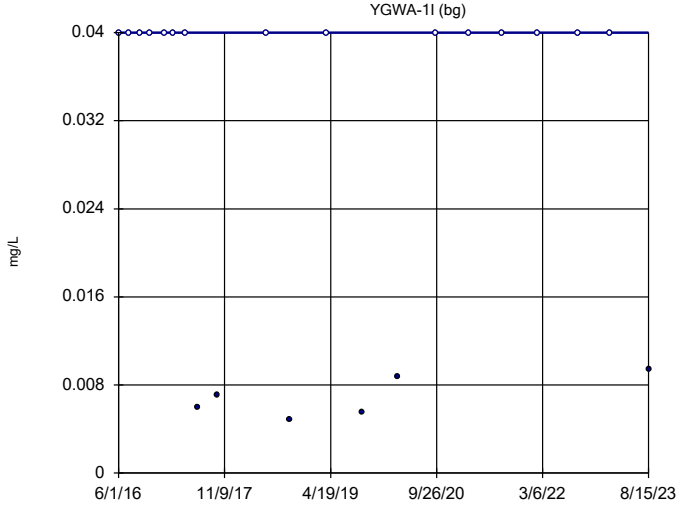
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1I (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = -13
critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/18/2023 8:49 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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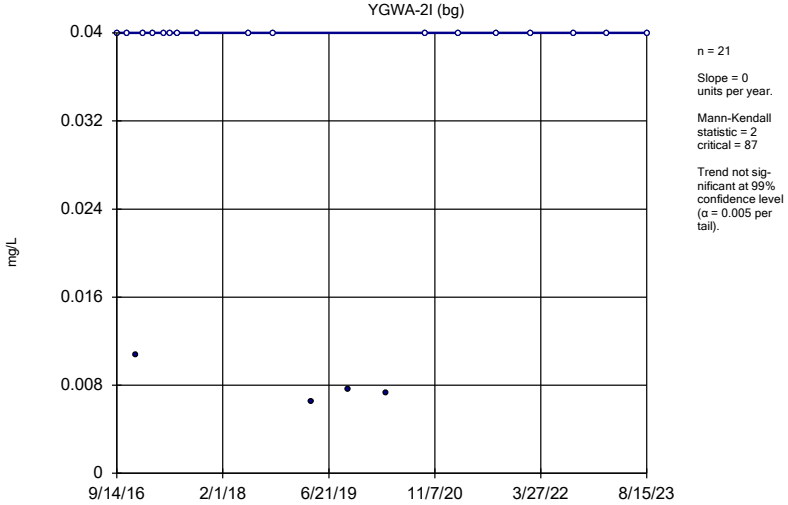
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-2I (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 2 critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/18/2023 8:49 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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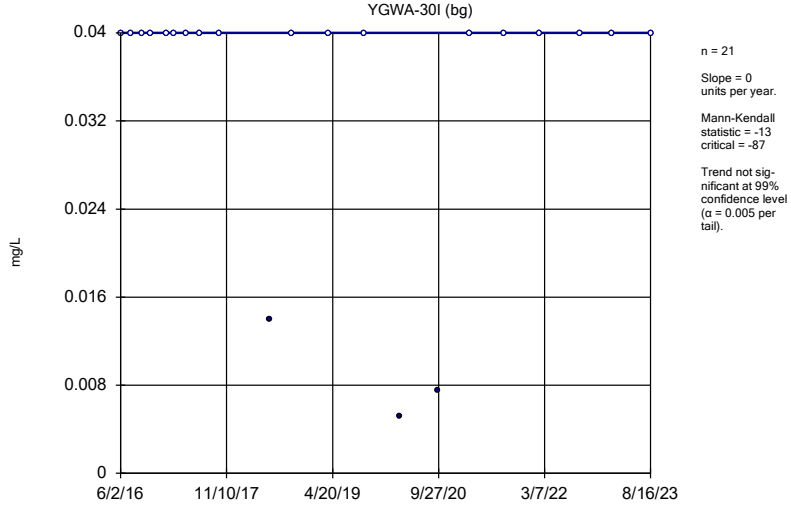
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = -13 critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/18/2023 8:49 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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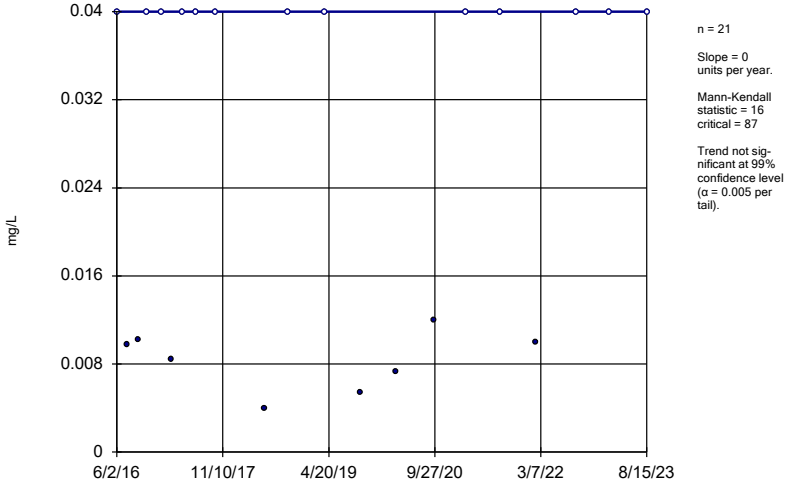
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3D (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 16 critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/18/2023 8:49 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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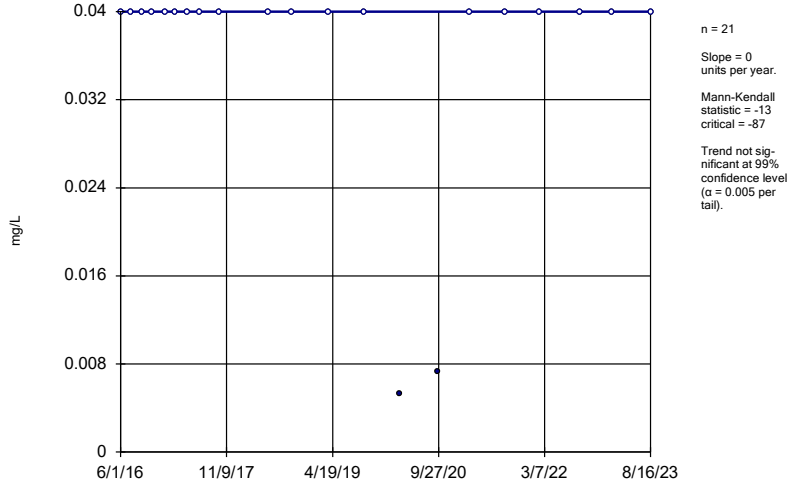
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3I (bg)



n = 21

Slope = 0 units per year.

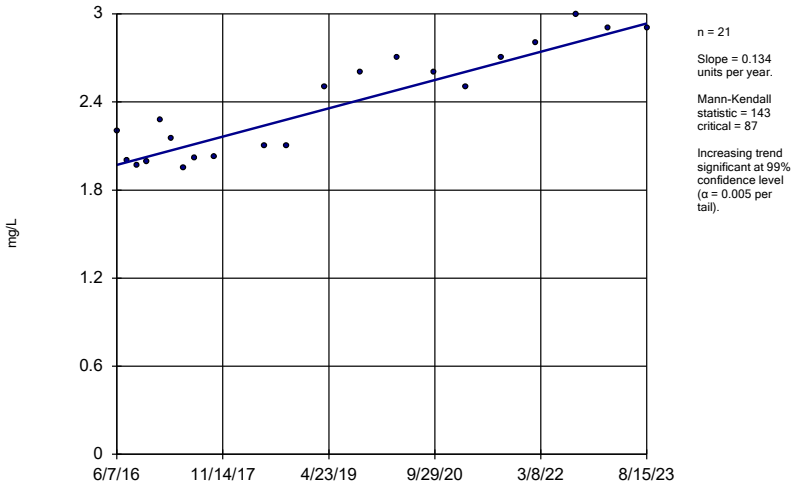
Mann-Kendall statistic = -13 critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/18/2023 8:49 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-17S (bg)



n = 21

Slope = 0.134 units per year.

Mann-Kendall statistic = 143 critical = 87

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/18/2023 8:49 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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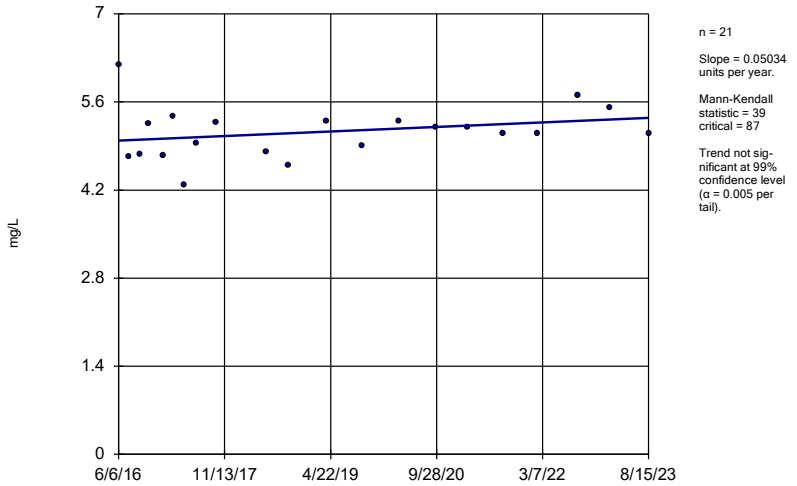
Sen's Slope Estimator

YGWA-18I (bg)



n = 21

Slope = 0.05034 units per year.

Mann-Kendall statistic = 39 critical = 87

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/18/2023 8:49 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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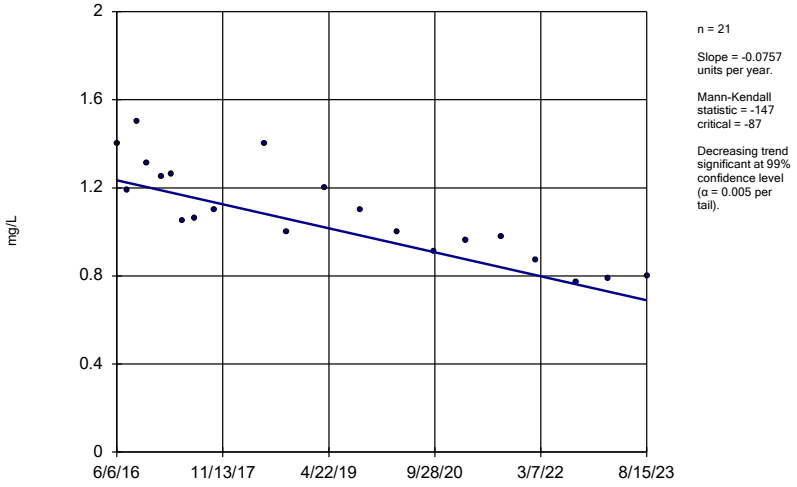
Sen's Slope Estimator

YGWA-18S (bg)



n = 21

Slope = -0.0757 units per year.

Mann-Kendall statistic = -147 critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/18/2023 8:49 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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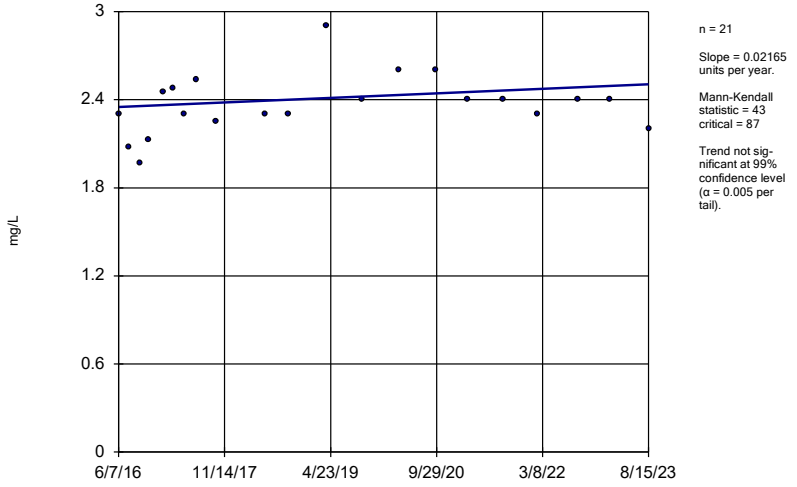
Sen's Slope Estimator

YGWA-20S (bg)



n = 21

Slope = 0.02165 units per year.

Mann-Kendall statistic = 43 critical = 87

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/18/2023 8:49 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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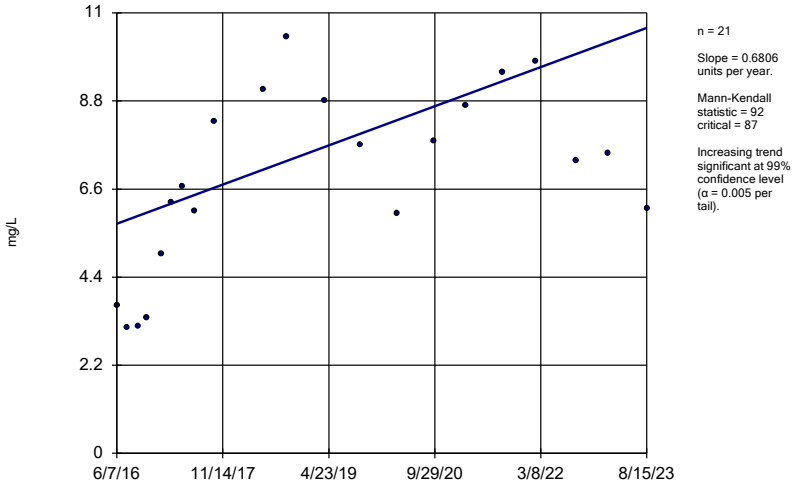
Sen's Slope Estimator

YGWA-21I (bg)



n = 21

Slope = 0.6806 units per year.

Mann-Kendall statistic = 92
critical = 87

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/18/2023 8:49 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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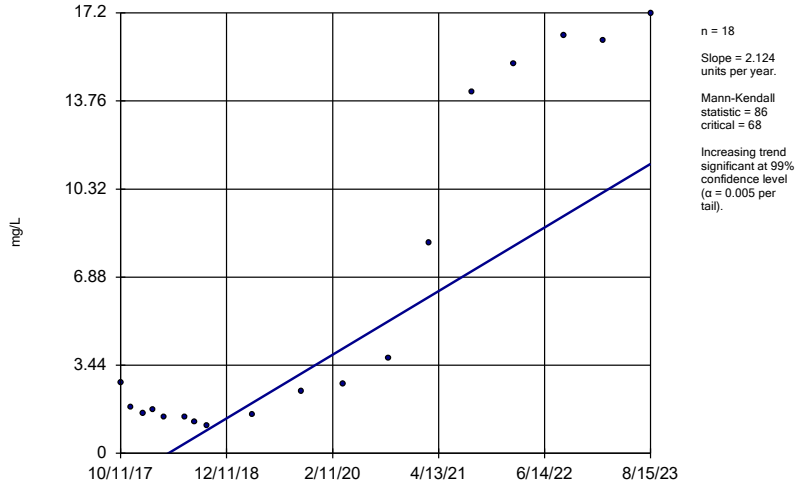
Sen's Slope Estimator

YGWA-39 (bg)



n = 18

Slope = 2.124 units per year.

Mann-Kendall statistic = 86
critical = 68

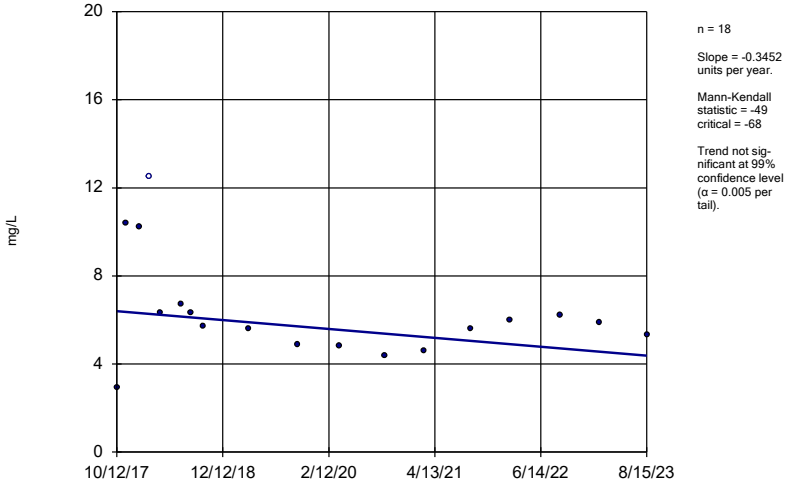
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/18/2023 8:49 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.13 Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-40 (bg)



n = 18

Slope = -0.3452 units per year.

Mann-Kendall statistic = -49
critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/18/2023 8:49 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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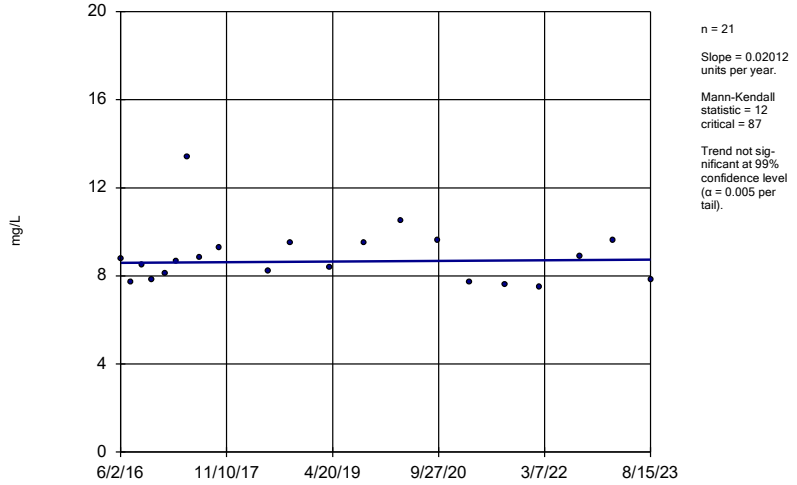
Sen's Slope Estimator

YGWA-4I (bg)



n = 21

Slope = 0.02012 units per year.

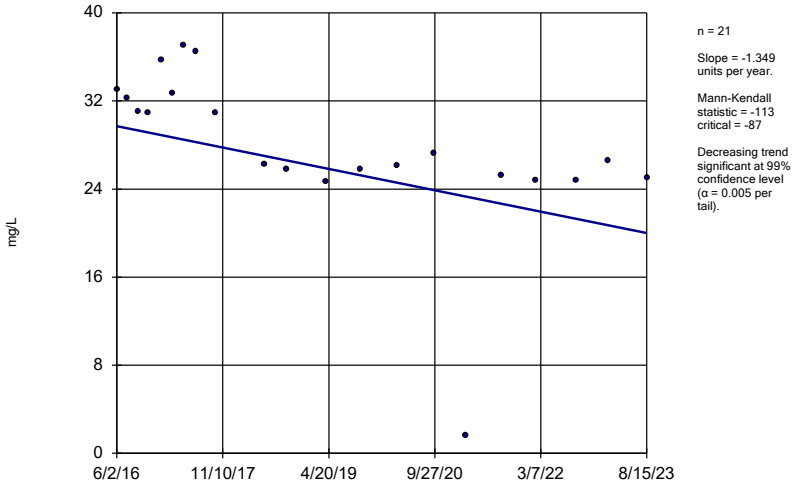
Mann-Kendall statistic = 12
critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/18/2023 8:49 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-5D (bg)



n = 21

Slope = -1.349 units per year.

Mann-Kendall statistic = -113
critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/18/2023 8:49 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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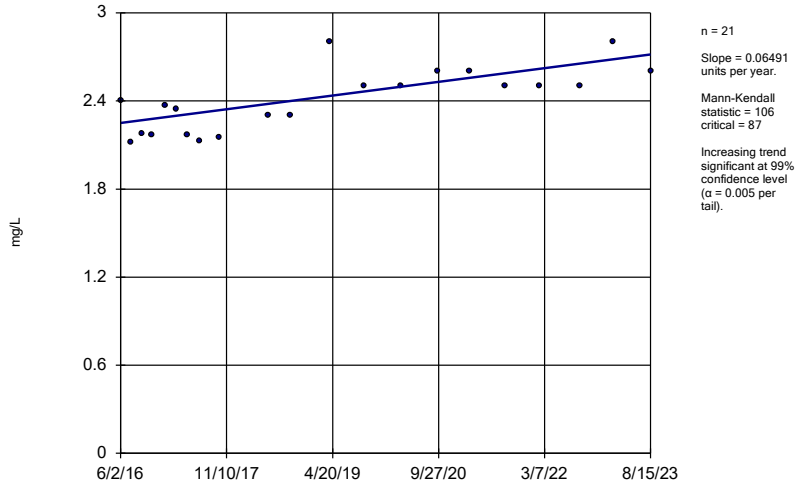
Sen's Slope Estimator

YGWA-5I (bg)



n = 21

Slope = 0.06491 units per year.

Mann-Kendall statistic = 106
critical = 87

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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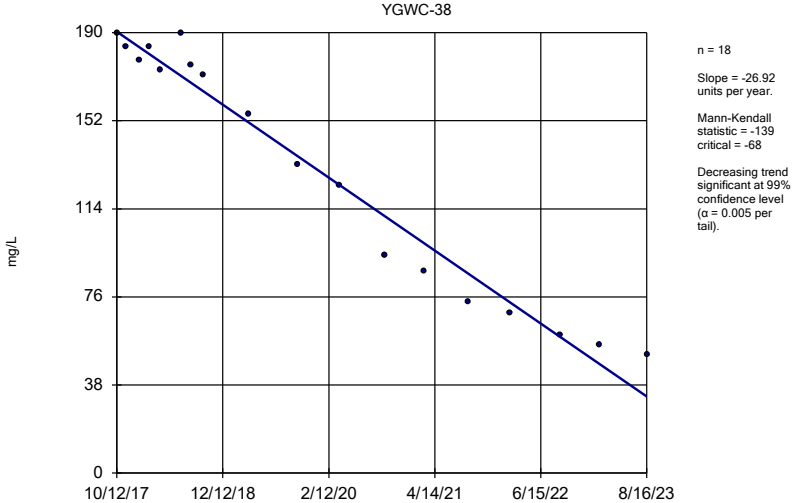
Sen's Slope Estimator

YGWC-38



n = 18

Slope = -26.92 units per year.

Mann-Kendall statistic = -139
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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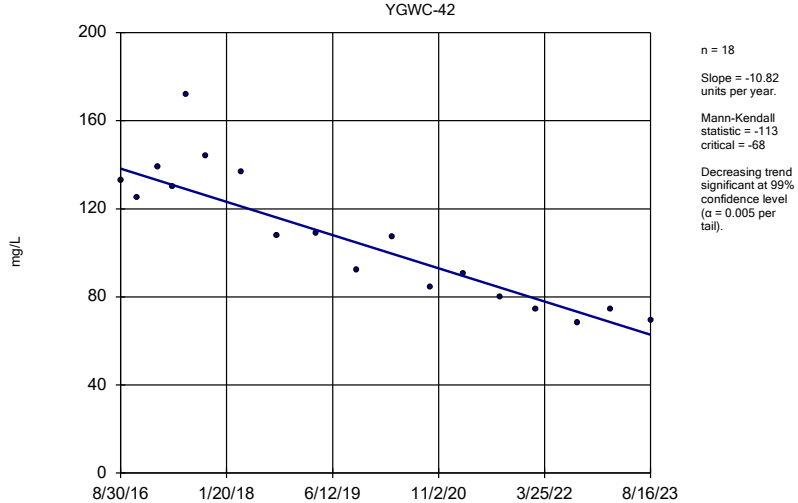
Sen's Slope Estimator

YGWC-42



n = 18

Slope = -10.82 units per year.

Mann-Kendall statistic = -113
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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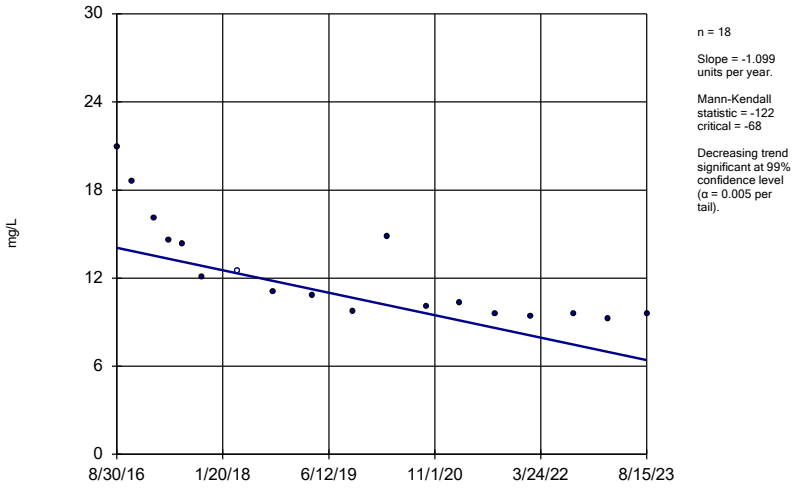
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-47 (bg)



n = 18

Slope = -1.099 units per year.

Mann-Kendall statistic = -122
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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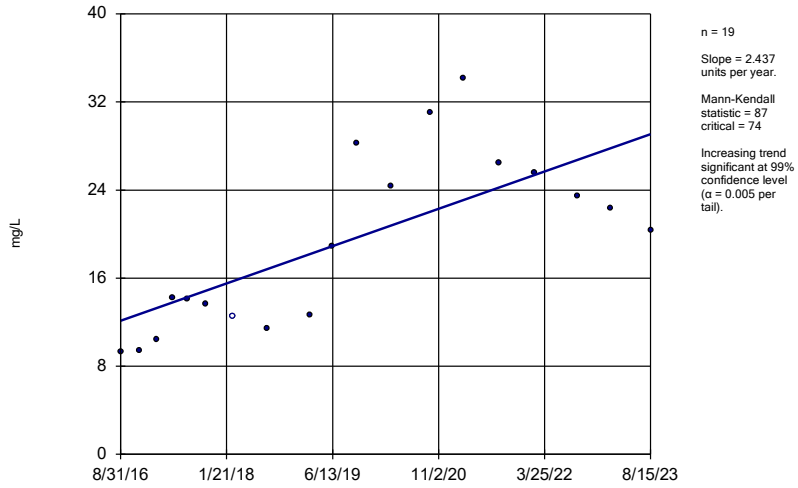
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 19

Slope = 2.437 units per year.

Mann-Kendall statistic = 87
critical = 74

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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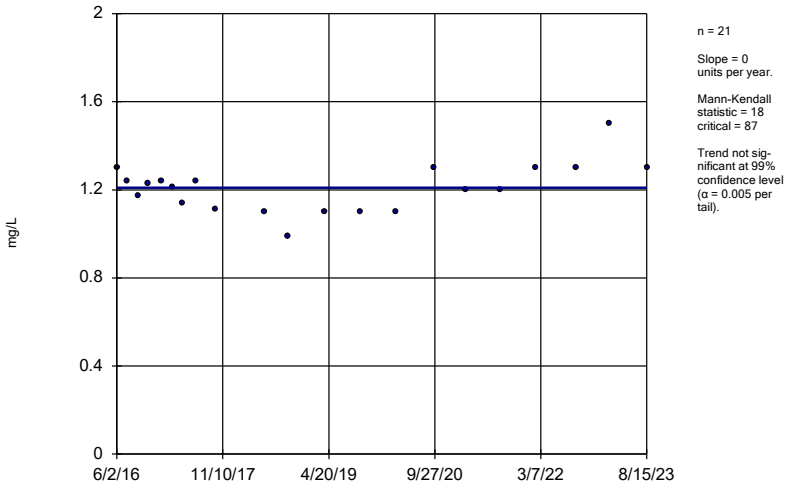
Sen's Slope Estimator

YGWA-14S (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 18
critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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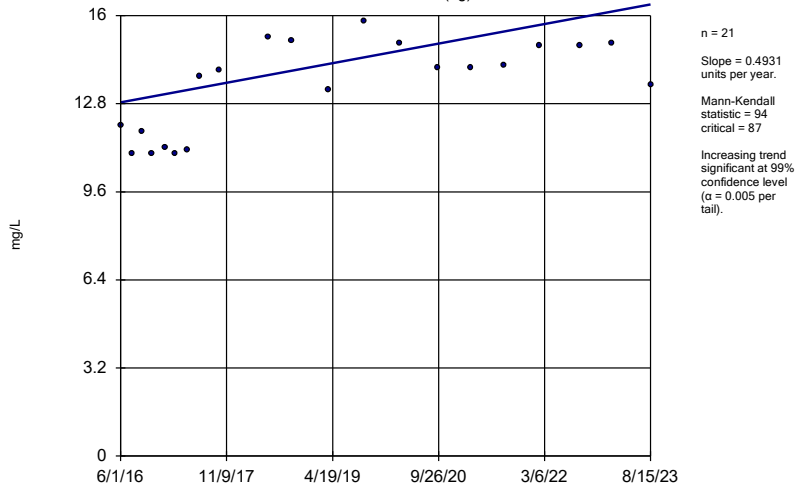
Sen's Slope Estimator

YGWA-1D (bg)



n = 21

Slope = 0.4931 units per year.

Mann-Kendall statistic = 94
critical = 87

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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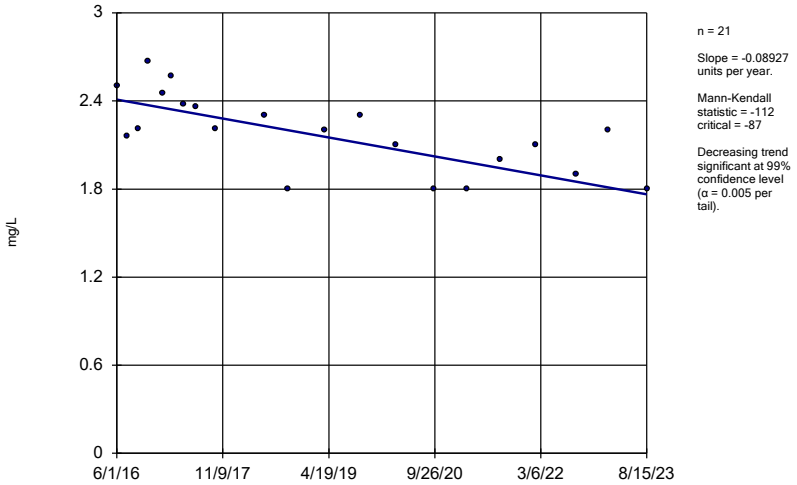
Sen's Slope Estimator

YGWA-1I (bg)



n = 21

Slope = -0.08927 units per year.

Mann-Kendall statistic = -112
critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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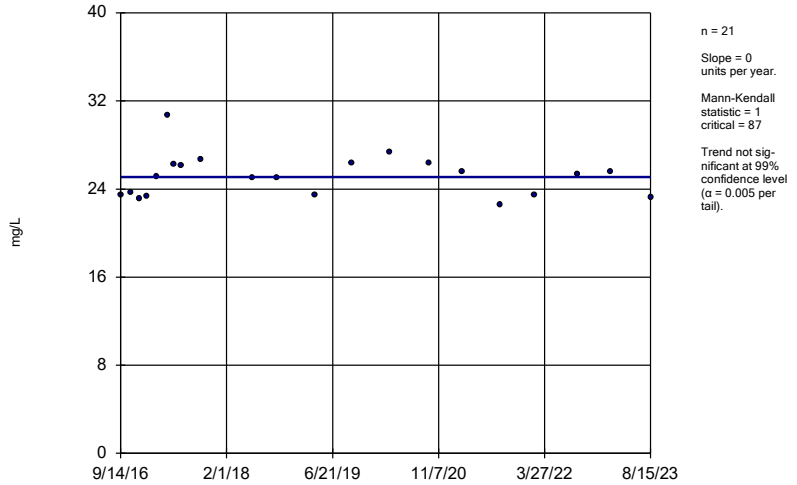
Sen's Slope Estimator

YGWA-2I (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 1
critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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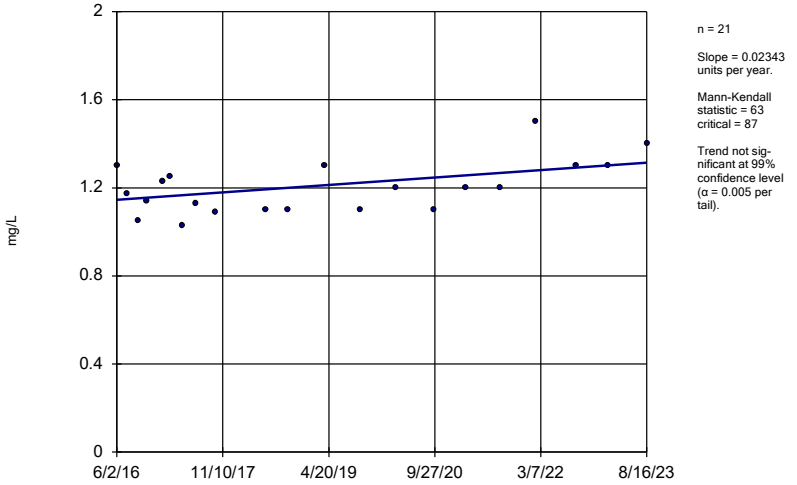
Sen's Slope Estimator

YGWA-30I (bg)



n = 21

Slope = 0.02343 units per year.

Mann-Kendall statistic = 63
critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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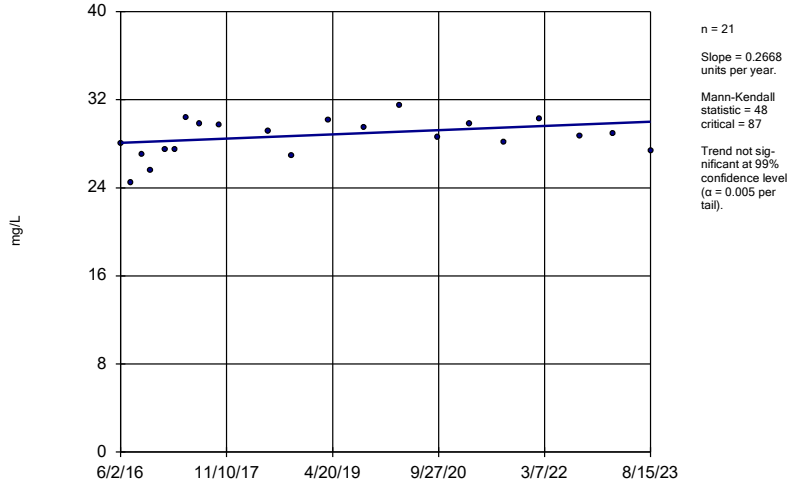
Sen's Slope Estimator

YGWA-3D (bg)



n = 21

Slope = 0.2668 units per year.

Mann-Kendall statistic = 48
critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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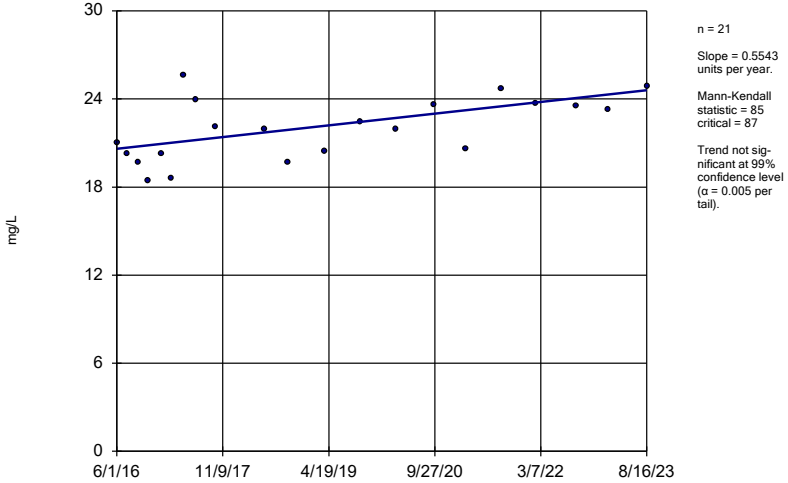
Sen's Slope Estimator

YGWA-3I (bg)



n = 21

Slope = 0.5543 units per year.

Mann-Kendall statistic = 85 critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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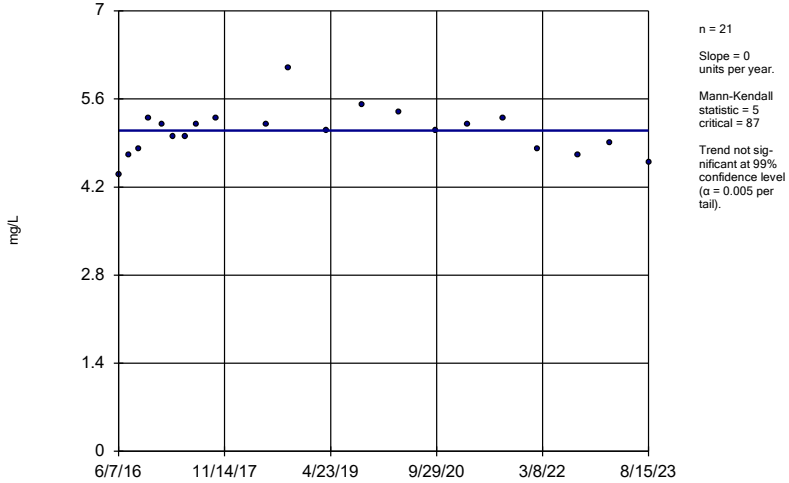
Sen's Slope Estimator

YGWA-17S (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 5 critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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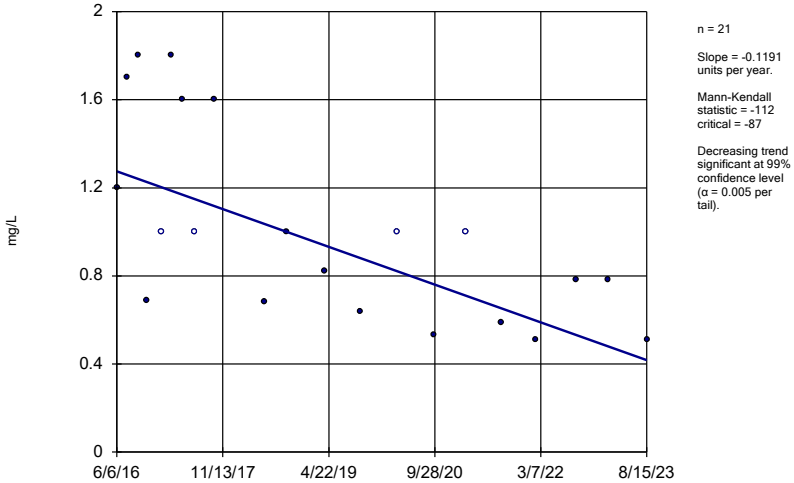
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 21

Slope = -0.1191 units per year.

Mann-Kendall statistic = -112 critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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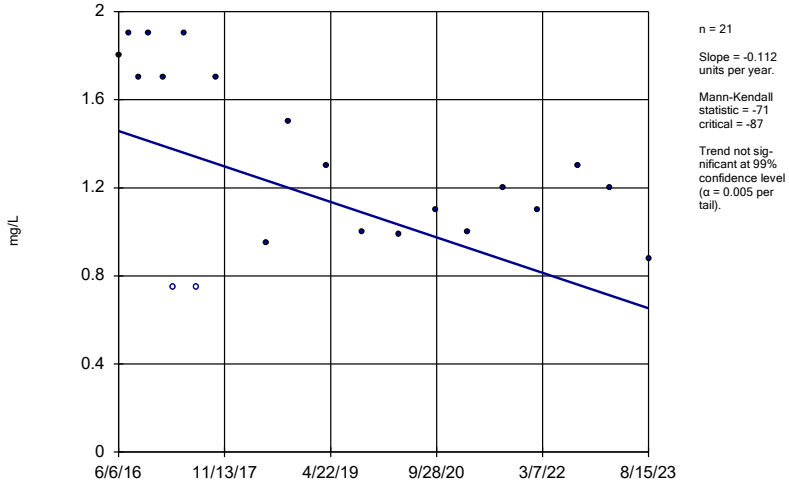
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18S (bg)



n = 21

Slope = -0.112 units per year.

Mann-Kendall statistic = -71 critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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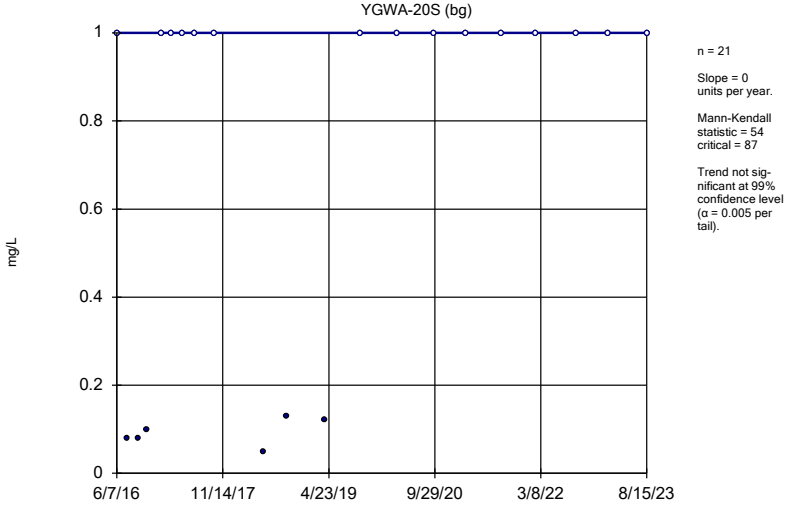
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-20S (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 54 critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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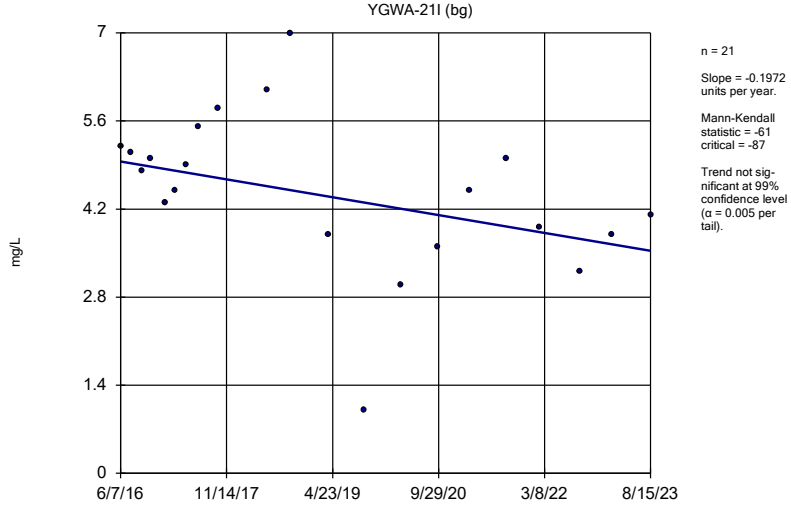
Sen's Slope Estimator

YGWA-21I (bg)



n = 21

Slope = -0.1972 units per year.

Mann-Kendall statistic = -61 critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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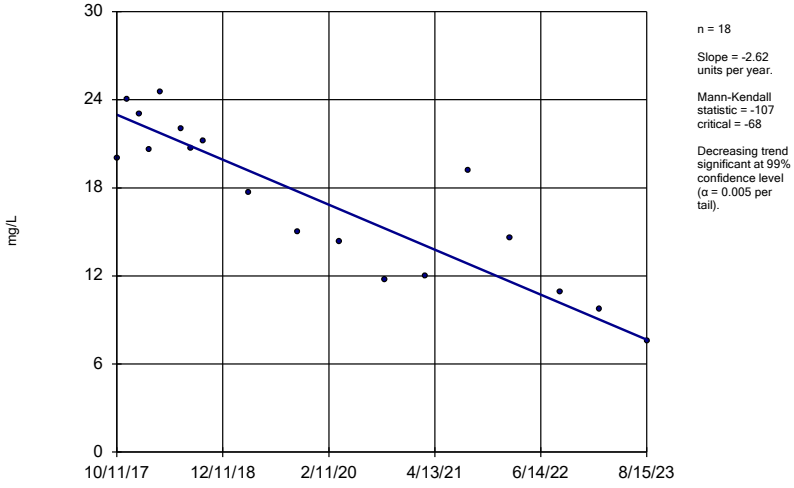
Sen's Slope Estimator

YGWA-39 (bg)



n = 18

Slope = -2.62 units per year.

Mann-Kendall statistic = -107 critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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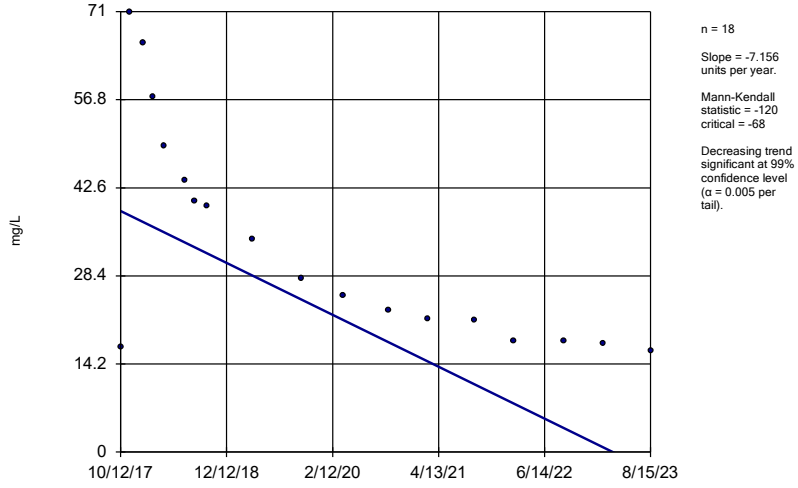
Sen's Slope Estimator

YGWA-40 (bg)



n = 18

Slope = -7.156 units per year.

Mann-Kendall statistic = -120 critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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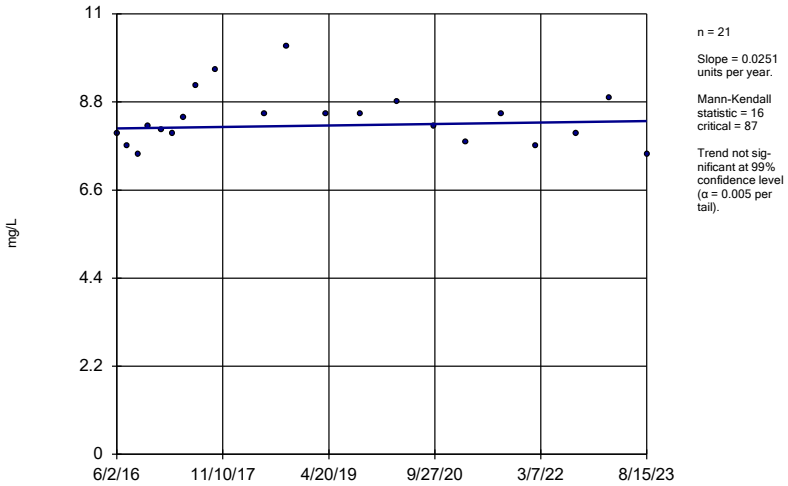
Sen's Slope Estimator

YGWA-4I (bg)



n = 21

Slope = 0.0251 units per year.

Mann-Kendall statistic = 16
critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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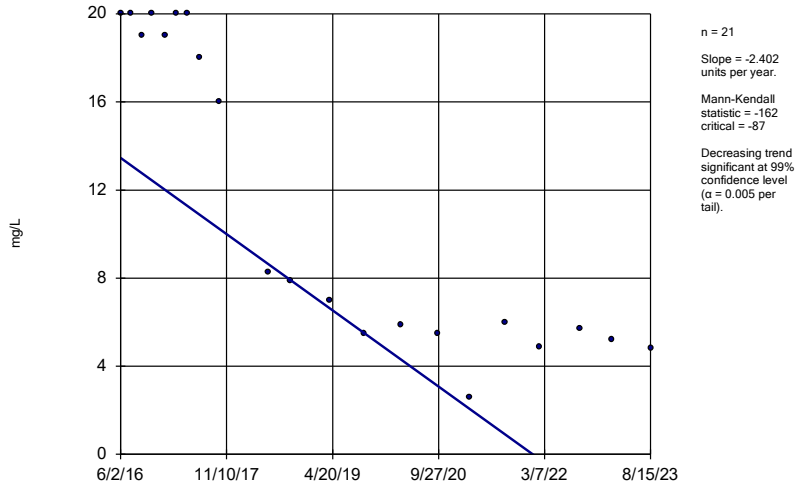
Sen's Slope Estimator

YGWA-5D (bg)



n = 21

Slope = -2.402 units per year.

Mann-Kendall statistic = -162
critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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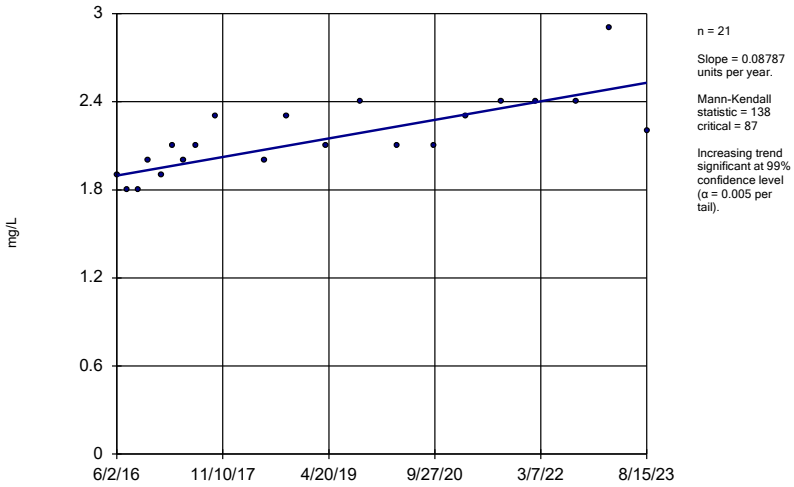
Sen's Slope Estimator

YGWA-5I (bg)



n = 21

Slope = 0.08787 units per year.

Mann-Kendall statistic = 138
critical = 87

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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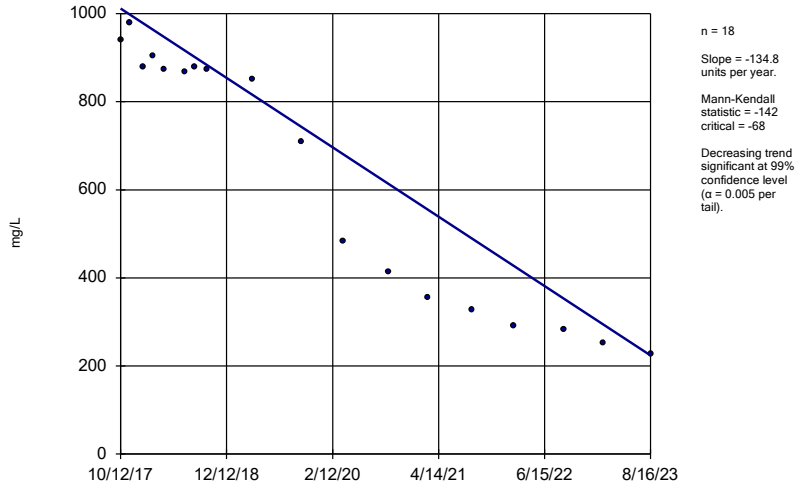
Sen's Slope Estimator

YGWC-38



n = 18

Slope = -134.8 units per year.

Mann-Kendall statistic = -142
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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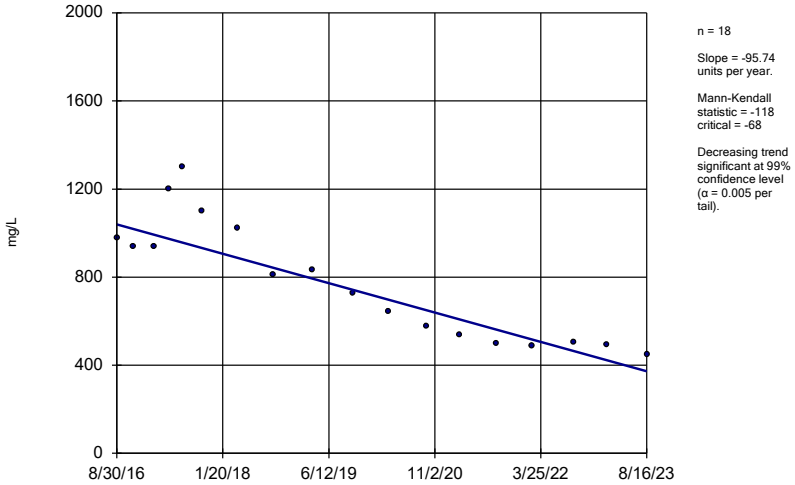
Sen's Slope Estimator

YGWC-42



n = 18

Slope = -95.74 units per year.

Mann-Kendall statistic = -118
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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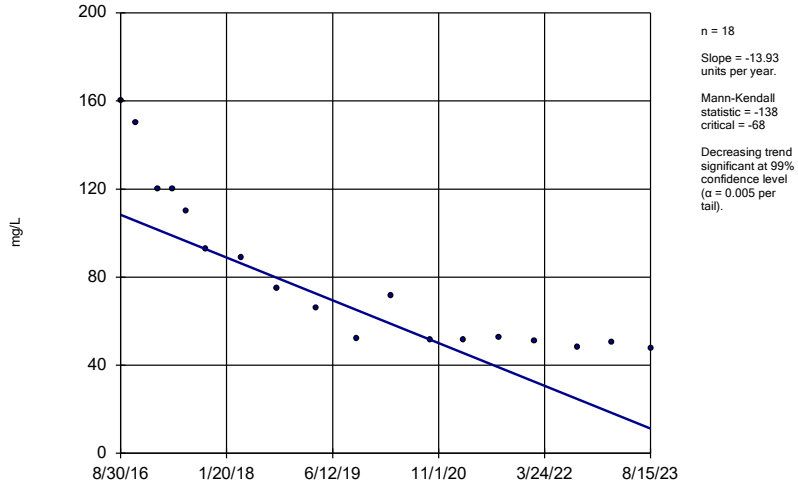
Sen's Slope Estimator

YGWA-47 (bg)



n = 18

Slope = -13.93 units per year.

Mann-Kendall statistic = -138
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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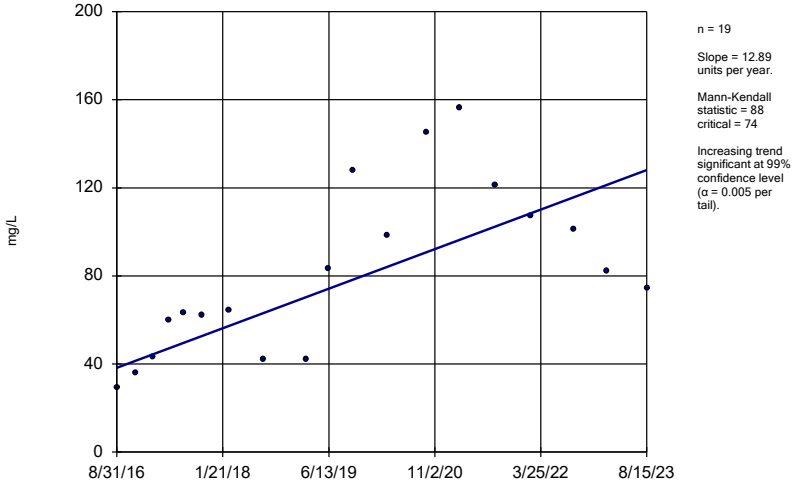
Sen's Slope Estimator

GWA-2 (bg)



n = 19

Slope = 12.89 units per year.

Mann-Kendall statistic = 88
critical = 74

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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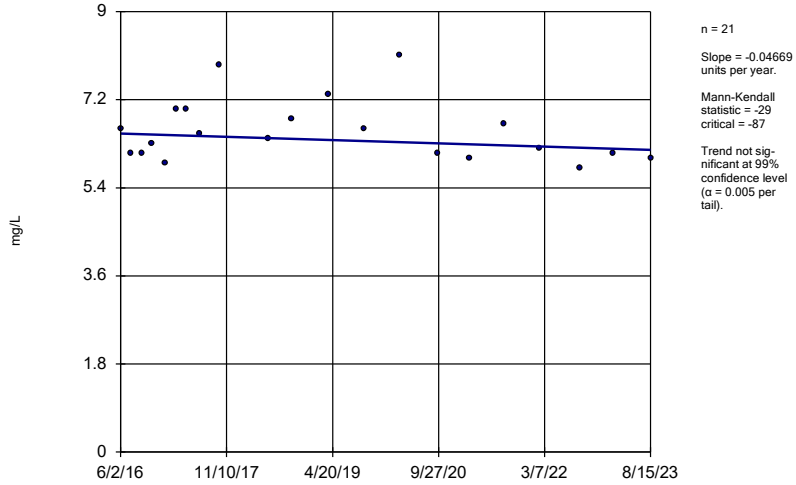
Sen's Slope Estimator

YGWA-14S (bg)



n = 21

Slope = -0.04669 units per year.

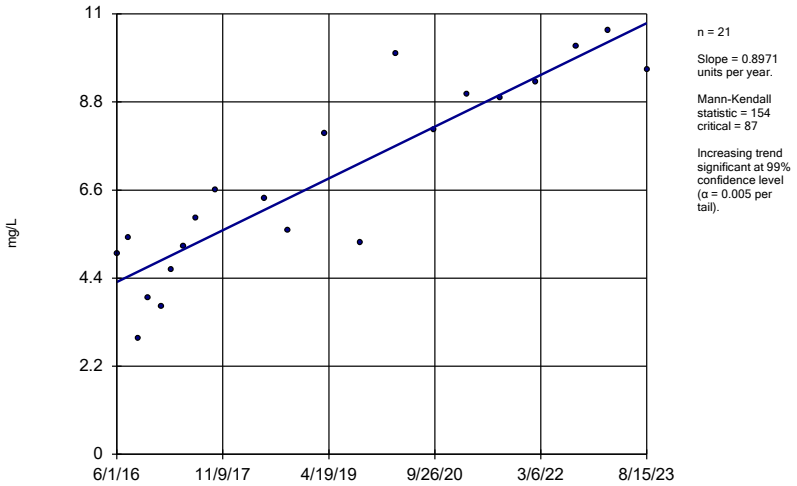
Mann-Kendall statistic = -29
critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-1D (bg)



n = 21

Slope = 0.8971 units per year.

Mann-Kendall statistic = 154 critical = 87

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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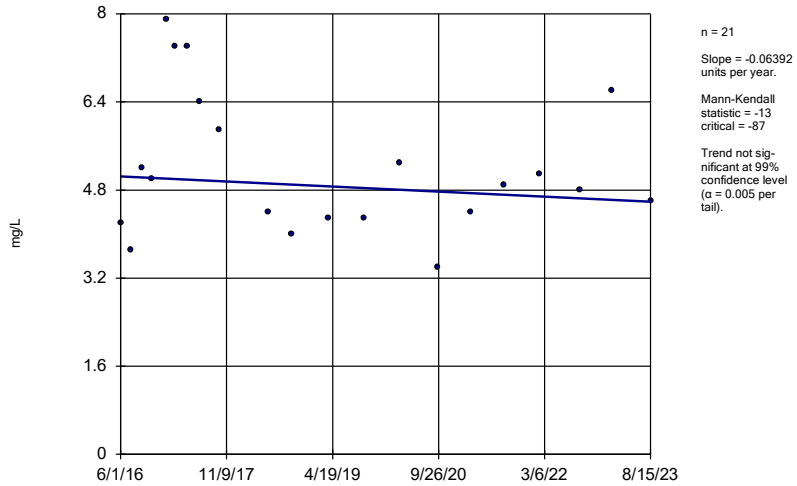
Sen's Slope Estimator

YGWA-1I (bg)



n = 21

Slope = -0.06392 units per year.

Mann-Kendall statistic = -13 critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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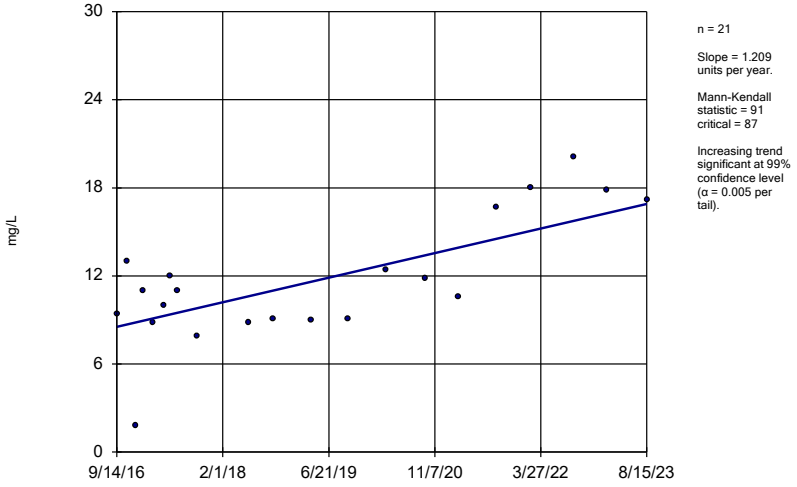
Sen's Slope Estimator

YGWA-2I (bg)



n = 21

Slope = 1.209 units per year.

Mann-Kendall statistic = 91 critical = 87

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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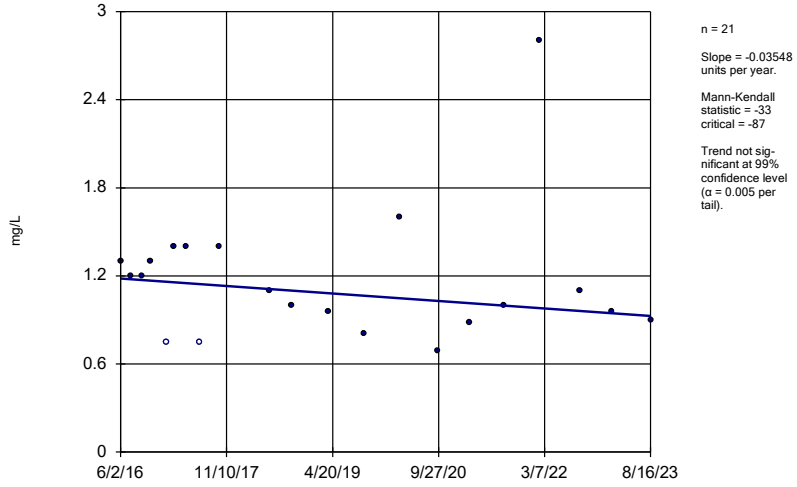
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 21

Slope = -0.03548 units per year.

Mann-Kendall statistic = -33 critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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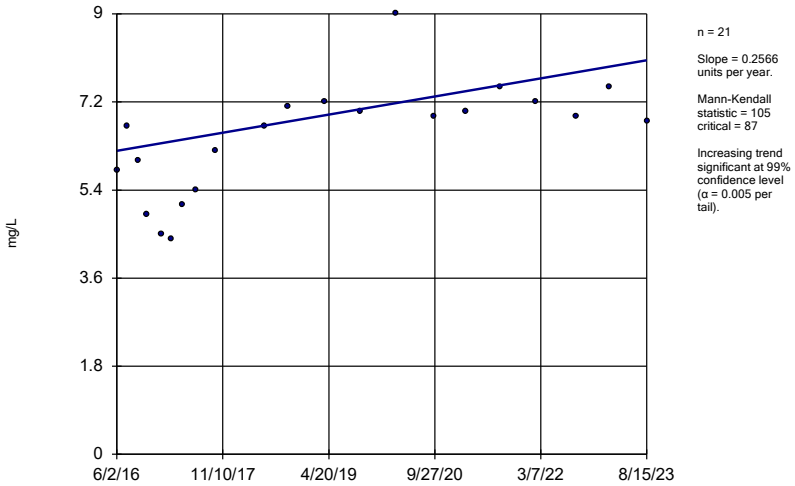
Sen's Slope Estimator

YGWA-3D (bg)



n = 21

Slope = 0.2566 units per year.

Mann-Kendall statistic = 105
critical = 87

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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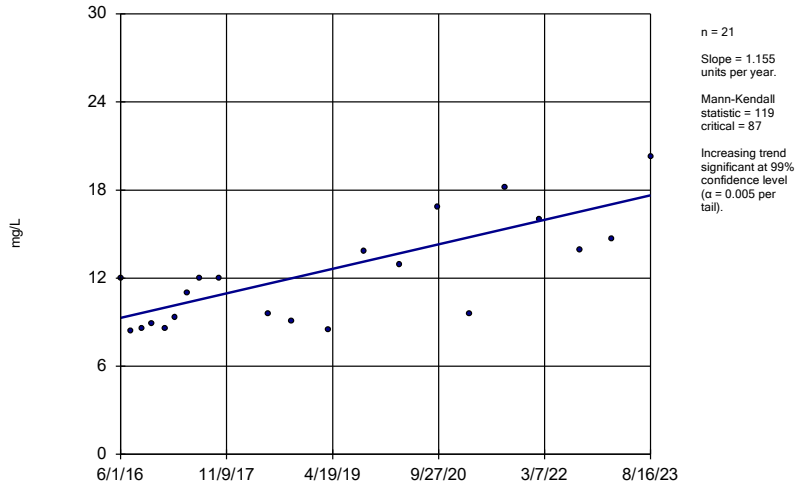
Sen's Slope Estimator

YGWA-3I (bg)



n = 21

Slope = 1.155 units per year.

Mann-Kendall statistic = 119
critical = 87

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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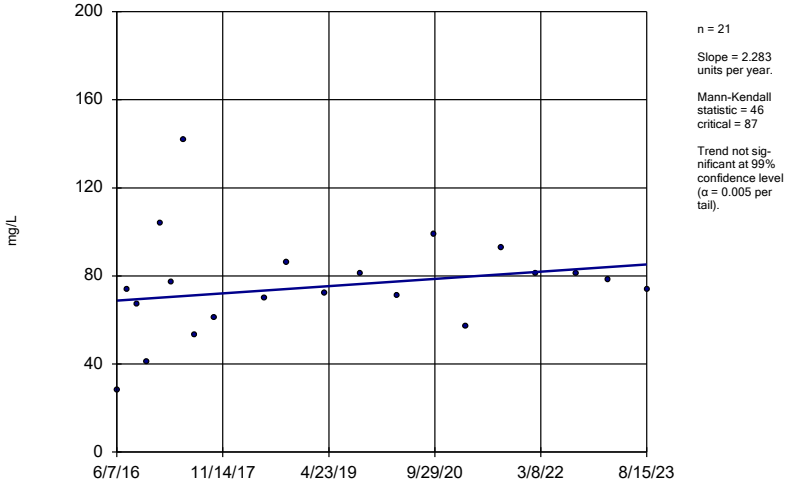
Sen's Slope Estimator

YGWA-17S (bg)



n = 21

Slope = 2.283 units per year.

Mann-Kendall statistic = 46
critical = 87

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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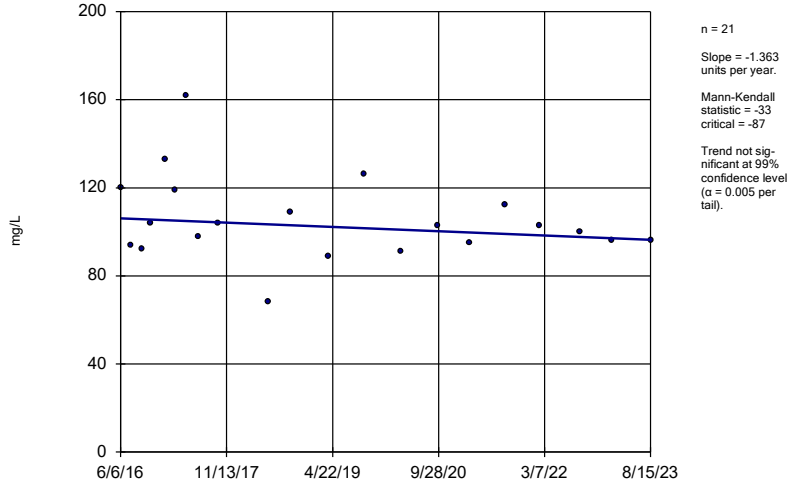
Sen's Slope Estimator

YGWA-18I (bg)



n = 21

Slope = -1.363 units per year.

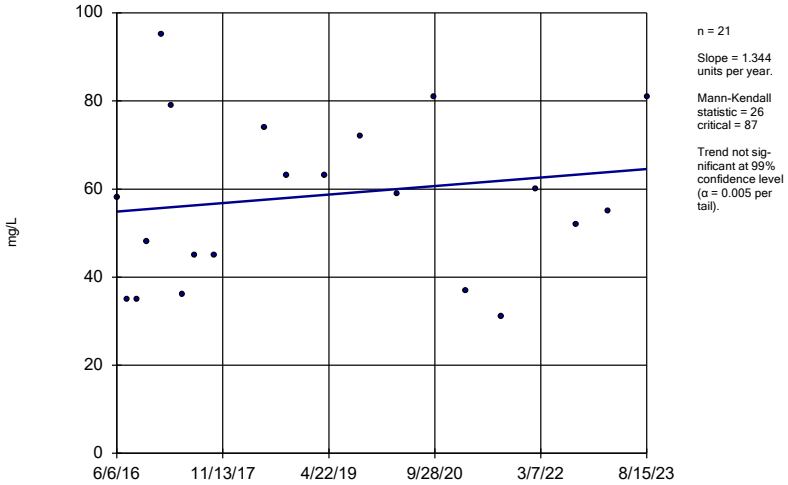
Mann-Kendall statistic = -33
critical = -87

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-18S (bg)



n = 21

Slope = 1.344 units per year.

Mann-Kendall statistic = 26
critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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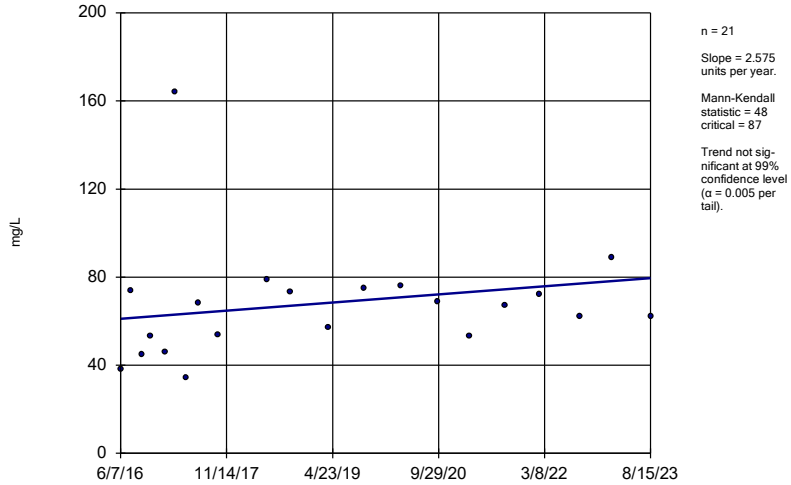
Sen's Slope Estimator

YGWA-20S (bg)



n = 21

Slope = 2.575 units per year.

Mann-Kendall statistic = 48
critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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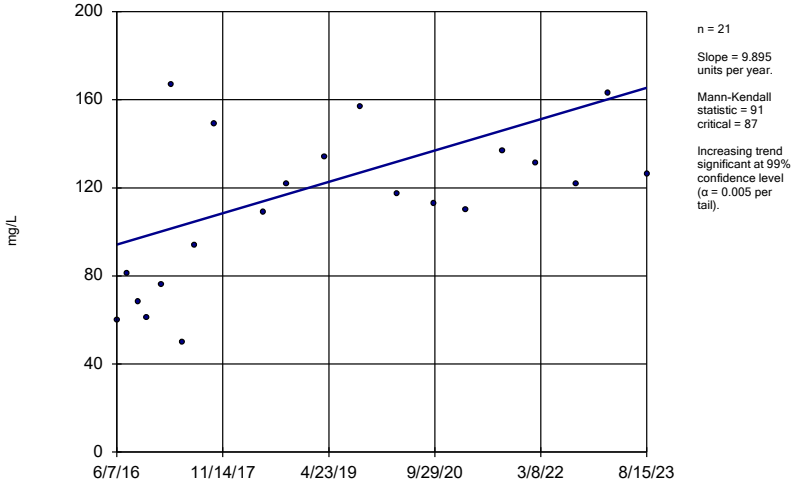
Sen's Slope Estimator

YGWA-21I (bg)



n = 21

Slope = 9.895 units per year.

Mann-Kendall statistic = 91
critical = 87

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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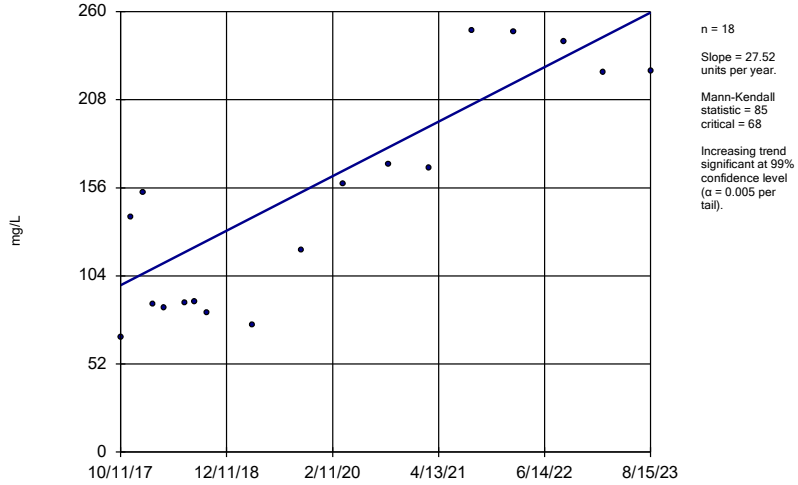
Sen's Slope Estimator

YGWA-39 (bg)



n = 18

Slope = 27.52 units per year.

Mann-Kendall statistic = 85
critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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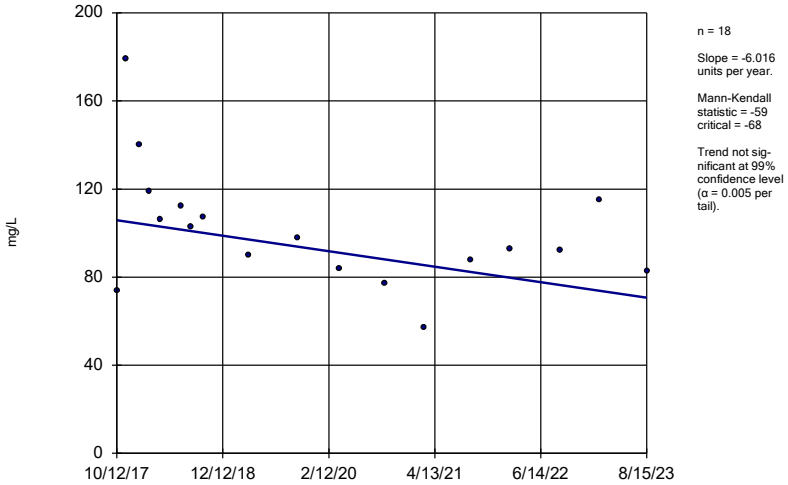
Sen's Slope Estimator

YGWA-40 (bg)



n = 18

Slope = -6.016 units per year.

Mann-Kendall statistic = -59 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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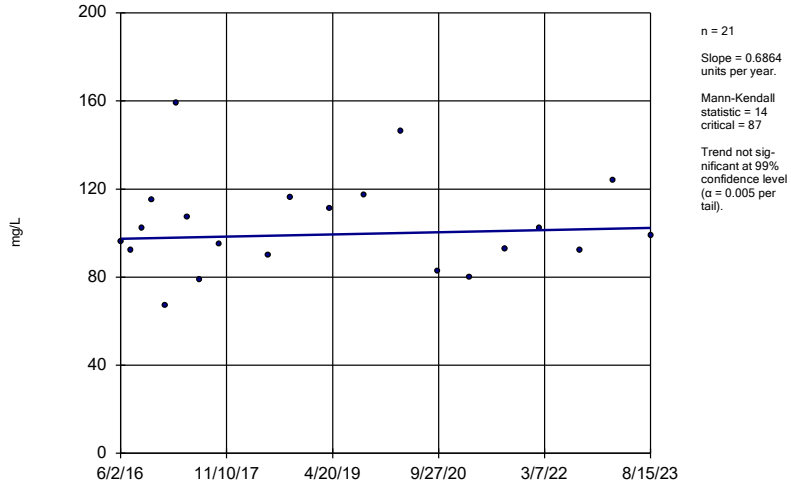
Sen's Slope Estimator

YGWA-4I (bg)



n = 21

Slope = 0.6864 units per year.

Mann-Kendall statistic = 14 critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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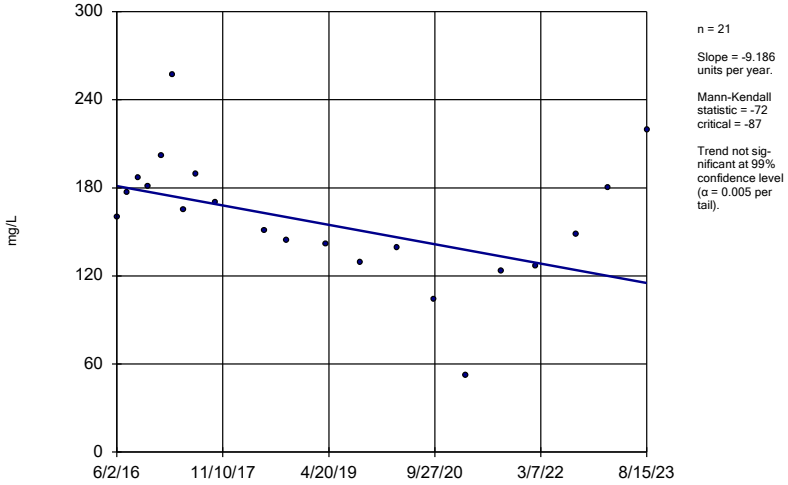
Sen's Slope Estimator

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 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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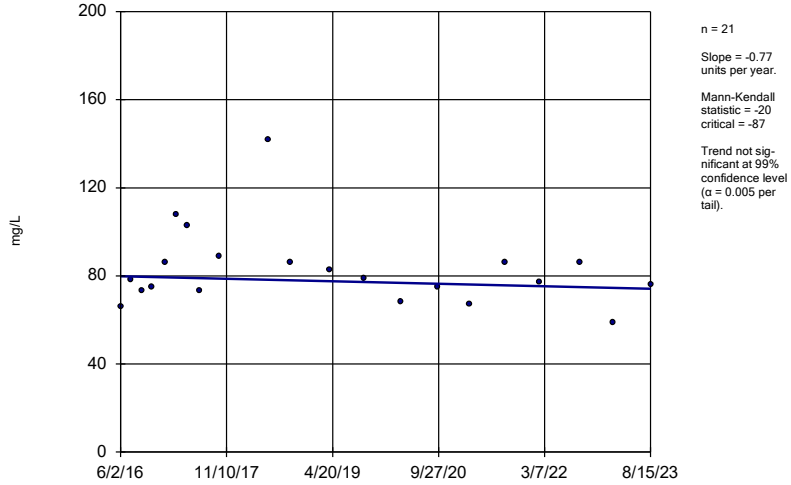
Sen's Slope Estimator

YGWA-5I (bg)



n = 21

Slope = -0.77 units per year.

Mann-Kendall statistic = -20 critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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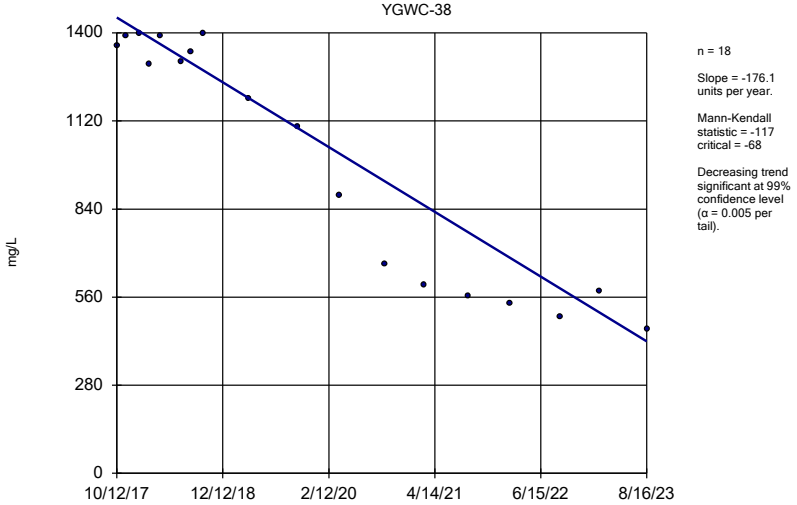
Sen's Slope Estimator

YGWC-38



n = 18

Slope = -176.1 units per year.

Mann-Kendall statistic = -117
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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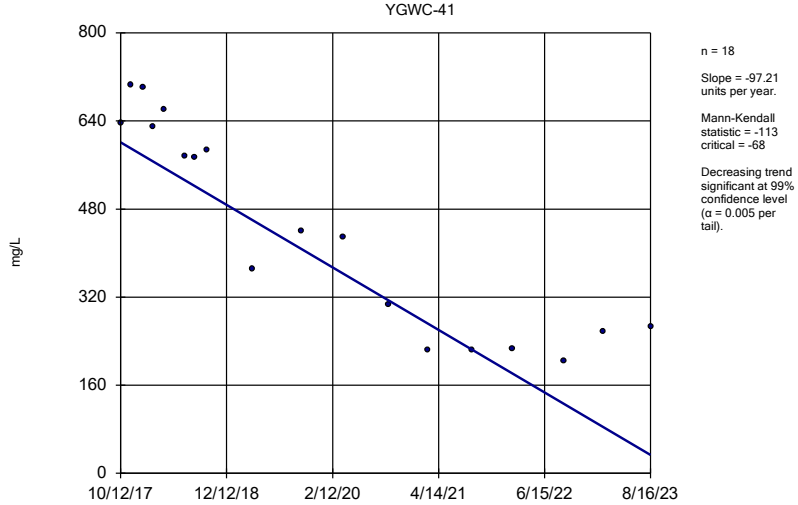
Sen's Slope Estimator

YGWC-41



n = 18

Slope = -97.21 units per year.

Mann-Kendall statistic = -113
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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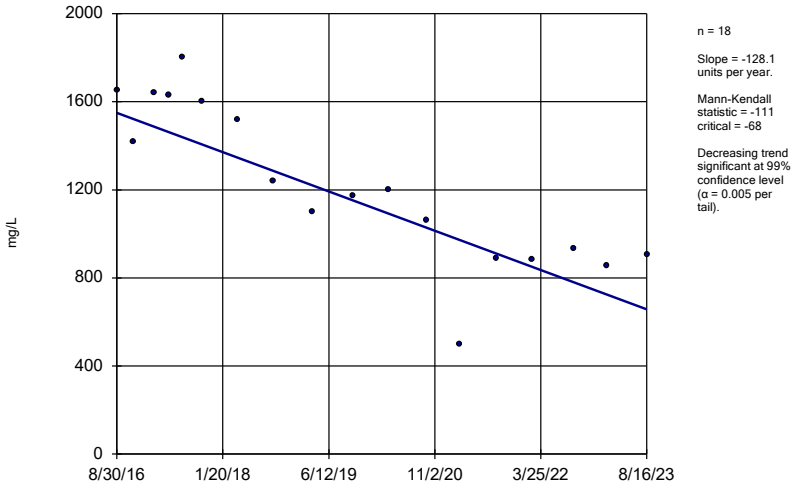
Sen's Slope Estimator

YGWC-42



n = 18

Slope = -128.1 units per year.

Mann-Kendall statistic = -111
critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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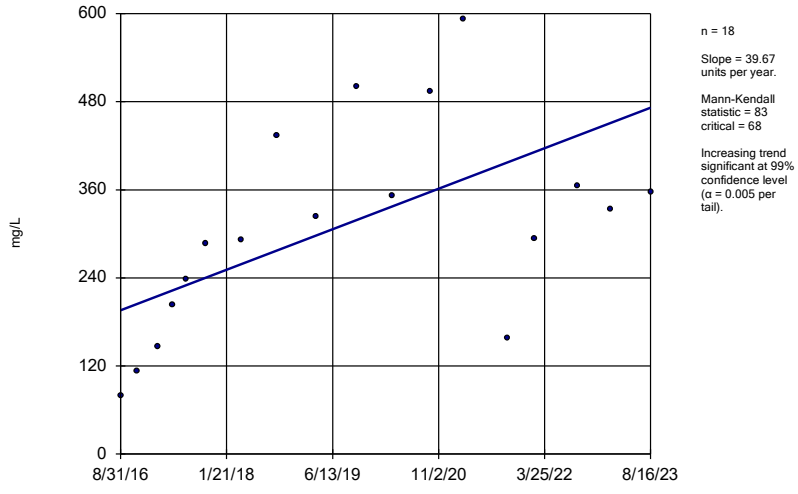
Sen's Slope Estimator

YGWC-43



n = 18

Slope = 39.67 units per year.

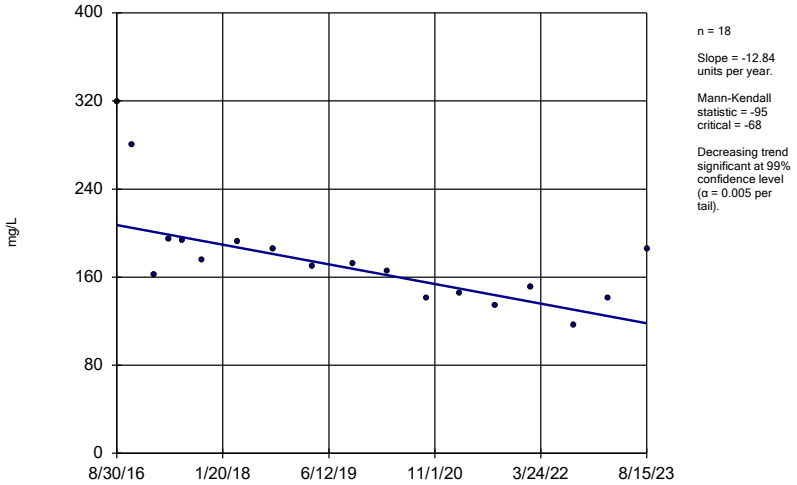
Mann-Kendall statistic = 83
critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-47 (bg)



n = 18

Slope = -12.84 units per year.

Mann-Kendall statistic = -95 critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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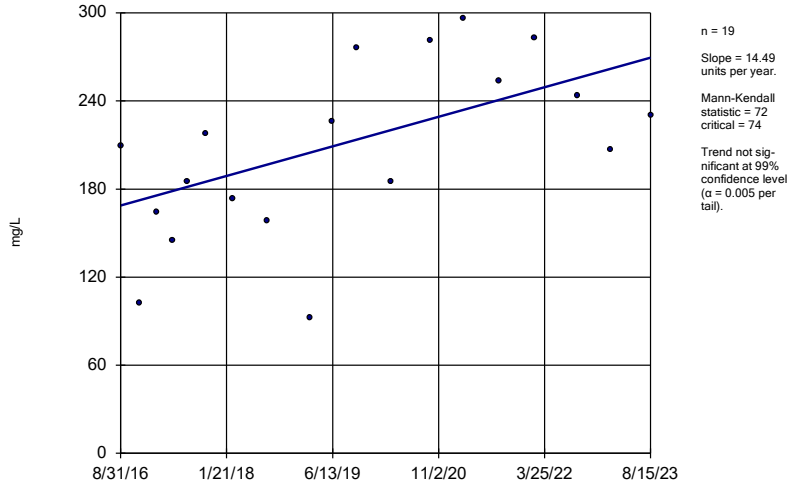
Sen's Slope Estimator

GWA-2 (bg)



n = 19

Slope = 14.49 units per year.

Mann-Kendall statistic = 72 critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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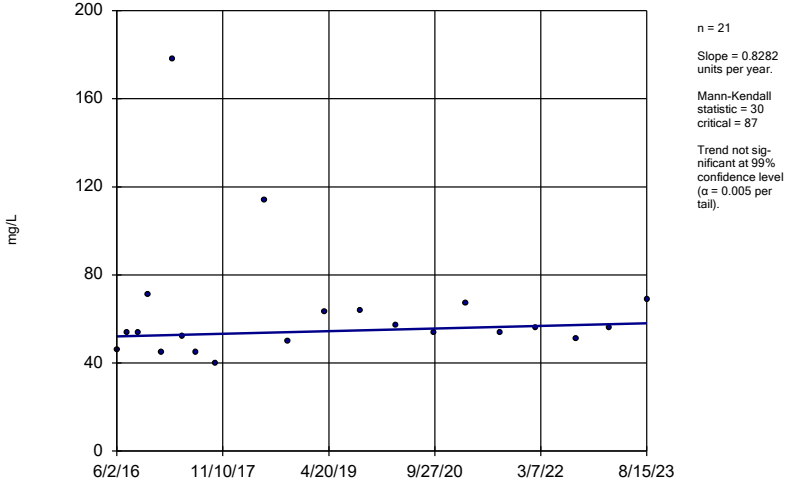
Sen's Slope Estimator

YGWA-14S (bg)



n = 21

Slope = 0.8282 units per year.

Mann-Kendall statistic = 30 critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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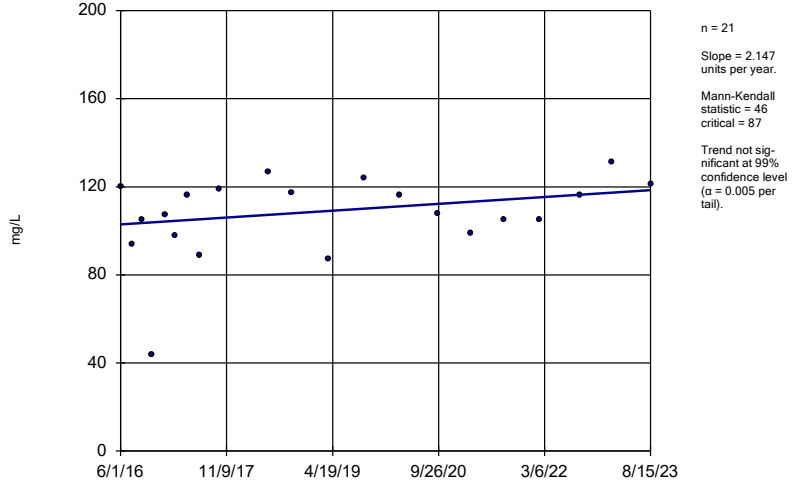
Sen's Slope Estimator

YGWA-1D (bg)



n = 21

Slope = 2.147 units per year.

Mann-Kendall statistic = 46 critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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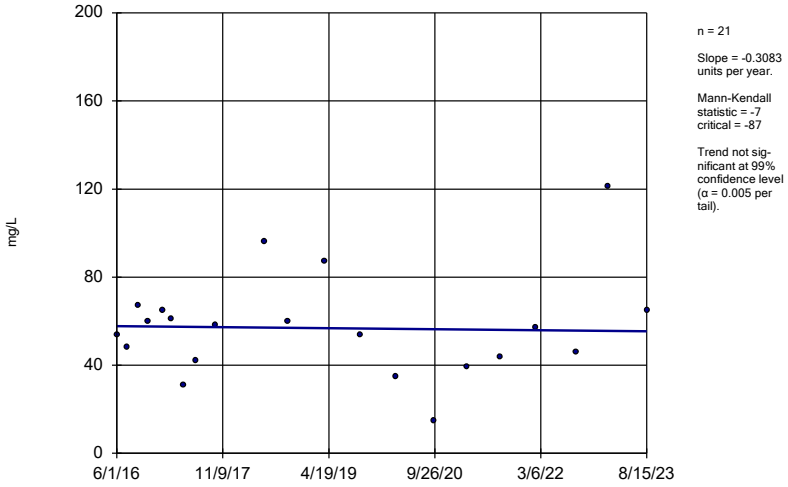
Sen's Slope Estimator

YGWA-1I (bg)



n = 21

Slope = -0.3083 units per year.

Mann-Kendall statistic = -7 critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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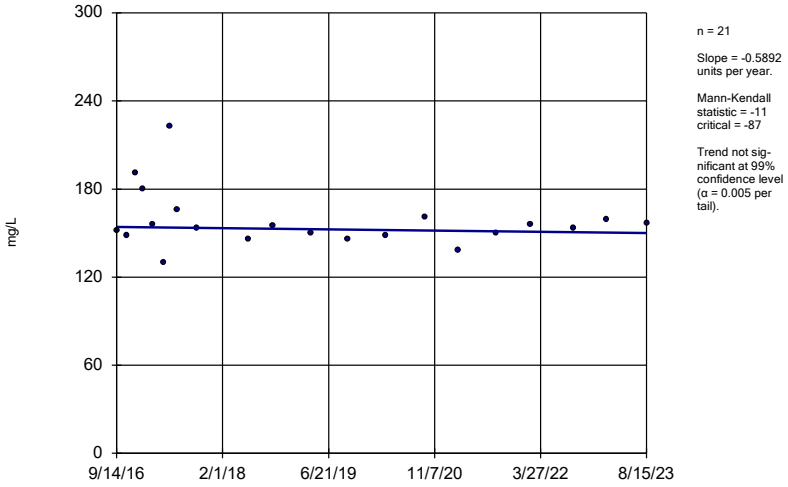
Sen's Slope Estimator

YGWA-2I (bg)



n = 21

Slope = -0.5892 units per year.

Mann-Kendall statistic = -11 critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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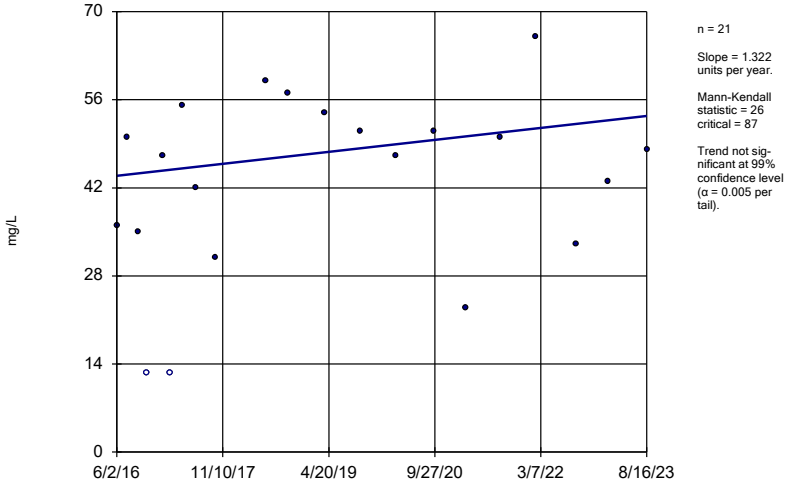
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 21

Slope = 1.322 units per year.

Mann-Kendall statistic = 26 critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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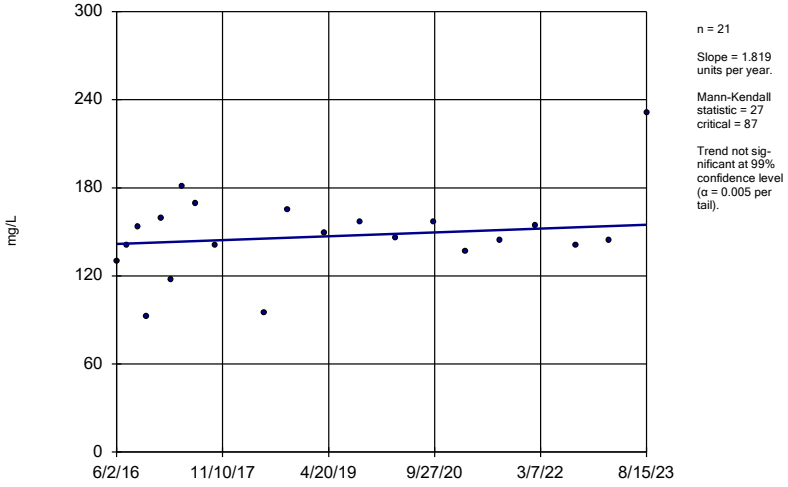
Sen's Slope Estimator

YGWA-3D (bg)



n = 21

Slope = 1.819 units per year.

Mann-Kendall statistic = 27 critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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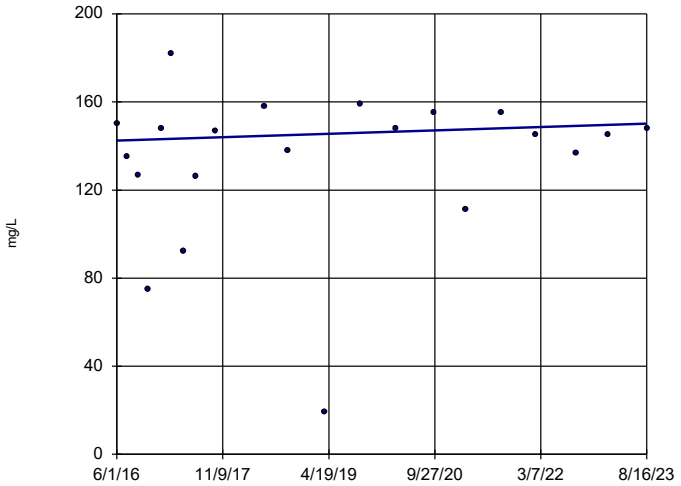
Sen's Slope Estimator

YGWA-3I (bg)



n = 21

Slope = 1.056 units per year.

Mann-Kendall statistic = 15 critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/18/2023 8:50 AM View: Appendix III - Trend Tests

Plant Yates Data: Plant Yates AMA-R6

FIGURE F.

Welch's t-test/Mann-Whitney - Significant Results

Plant Yates Data: Plant Yates AMA-R6 Printed 10/18/2023, 9:01 AM

Constituent	Well	Calc.	0.01	Alpha	Sig.	Method
Cadmium (mg/L)	**YGWC-36A**	**2.646**	**Yes**	**0.01**	**Yes**	**Mann-W**
Lithium (mg/L)	**YGWC-36A**	**-2.939**	**Yes**	**0.01**	**Yes**	**Mann-W**

Welch's t-test/Mann-Whitney - All Results

Plant Yates Data: Plant Yates AMA-R6 Printed 10/18/2023, 9:01 AM

Constituent	Well	Calc.	0.01	Alpha	Sig.	Method
Antimony (mg/L)	YGWC-36A	0.1956	No	0.01	No	Mann-W
Arsenic (mg/L)	YGWC-36A	-0.5433	No	0.01	No	Mann-W
Barium (mg/L)	YGWC-36A	0.8071	No	0.01	No	Mann-W
Beryllium (mg/L)	YGWC-36A	1.233	No	0.01	No	Mann-W
Cadmium (mg/L)	**YGWC-36A**	**2.646**	**Yes**	**0.01**	**Yes**	**Mann-W**
Chromium (mg/L)	YGWC-36A	-0.4052	No	0.01	No	Mann-W
Cobalt (mg/L)	YGWC-36A	-0.2683	No	0.01	No	Mann-W
Combined Radium 226 + 228 (pCi/L)	YGWC-36A	-2.098	No	0.01	No	Mann-W
Fluoride (mg/L)	YGWC-36A	1.487	No	0.01	No	Mann-W
Lead (mg/L)	YGWC-36A	2.033	No	0.01	No	Mann-W
Lithium (mg/L)	**YGWC-36A**	**-2.939**	**Yes**	**0.01**	**Yes**	**Mann-W**
Molybdenum (mg/L)	YGWC-36A	1.251	No	0.01	No	Mann-W
Selenium (mg/L)	YGWC-36A	2.565	No	0.01	No	Mann-W

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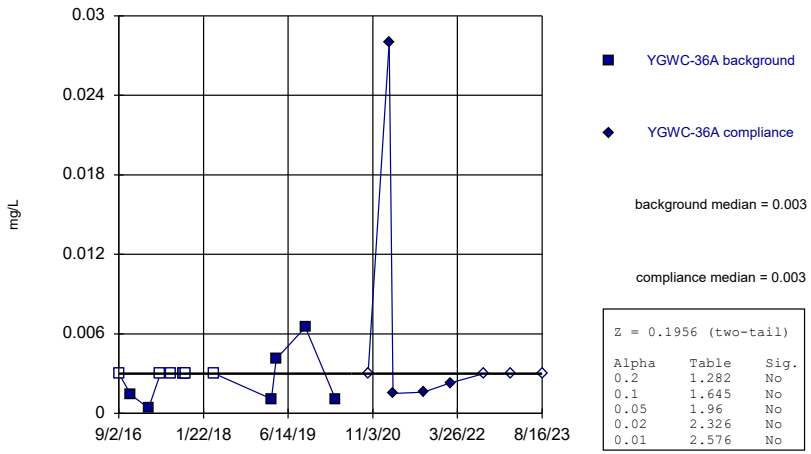
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

YGWC-36A



Z = 0.1956 (two-tail)

Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Antimony Analysis Run 10/18/2023 9:00 AM View: Mann-Whitney
Plant Yates Data: Plant Yates AMA-R6

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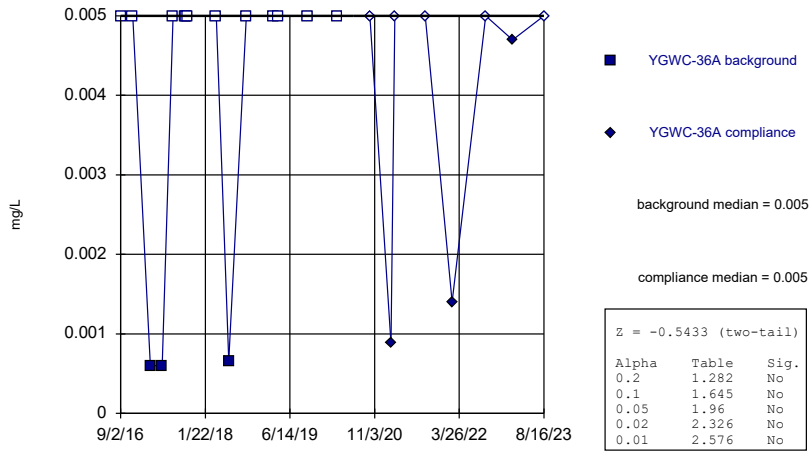
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

YGWC-36A



Z = -0.5433 (two-tail)

Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Arsenic Analysis Run 10/18/2023 9:00 AM View: Mann-Whitney
Plant Yates Data: Plant Yates AMA-R6

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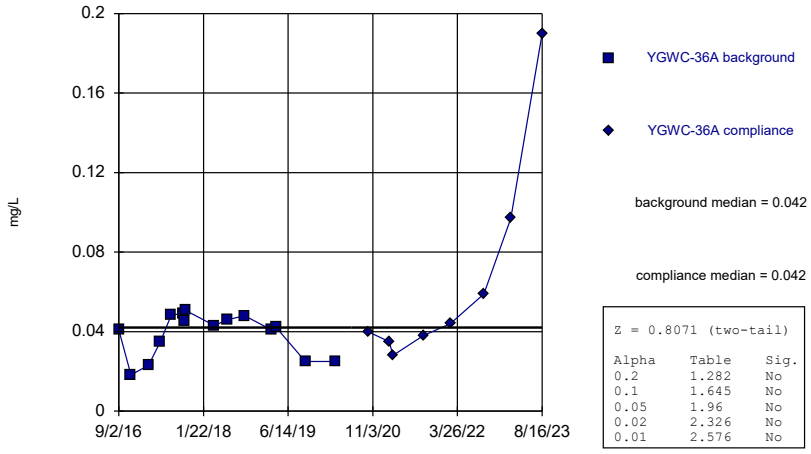
Mann-Whitney (Wilcoxon Rank Sum)

YGWC-36A



Z = 0.8071 (two-tail)

Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Barium Analysis Run 10/18/2023 9:00 AM View: Mann-Whitney
Plant Yates Data: Plant Yates AMA-R6

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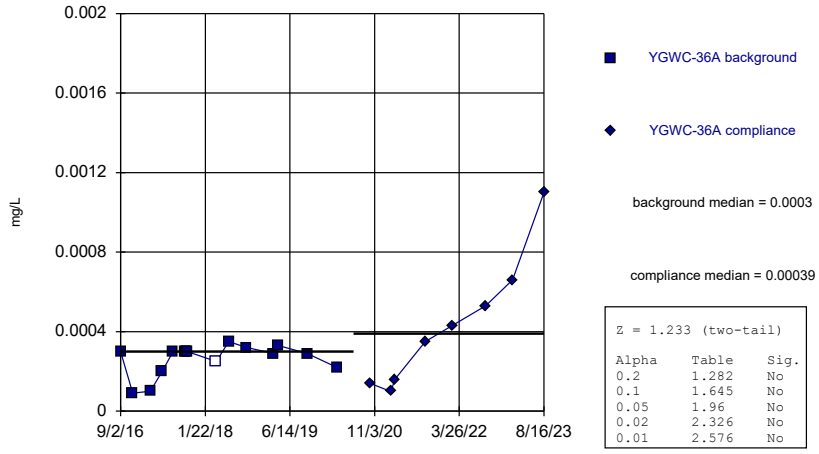
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

YGWC-36A



Z = 1.233 (two-tail)

Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Beryllium Analysis Run 10/18/2023 9:00 AM View: Mann-Whitney
Plant Yates Data: Plant Yates AMA-R6

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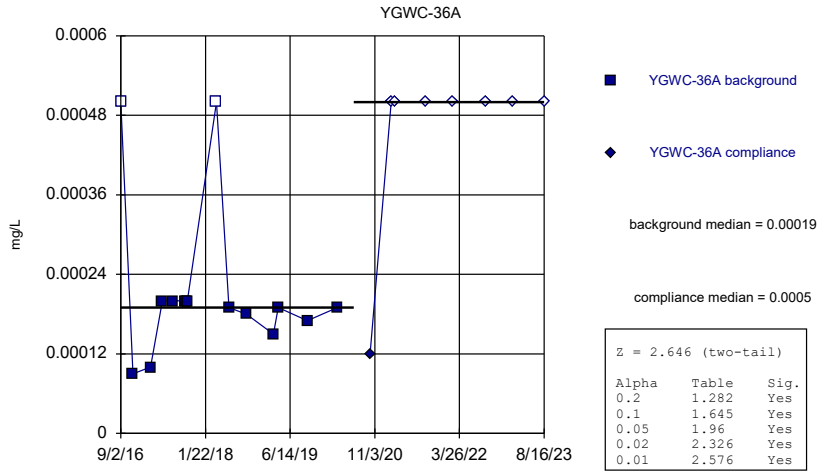
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = 2.646 (two-tail)

Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: Cadmium Analysis Run 10/18/2023 9:00 AM View: Mann-Whitney
Plant Yates Data: Plant Yates AMA-R6

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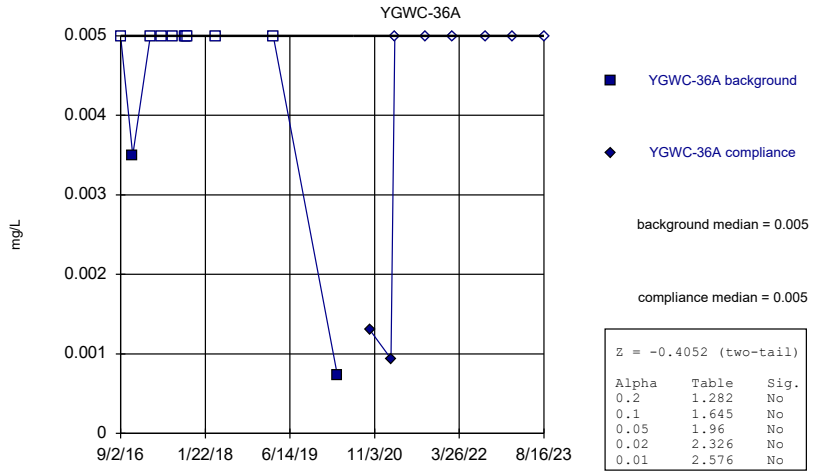
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = -0.4052 (two-tail)

Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Chromium Analysis Run 10/18/2023 9:00 AM View: Mann-Whitney
Plant Yates Data: Plant Yates AMA-R6

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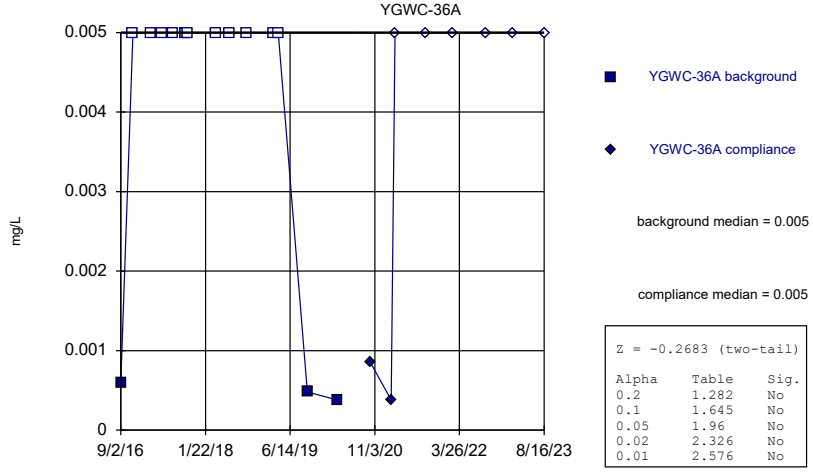
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



Z = -0.2683 (two-tail)

Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Cobalt Analysis Run 10/18/2023 9:00 AM View: Mann-Whitney
Plant Yates Data: Plant Yates AMA-R6

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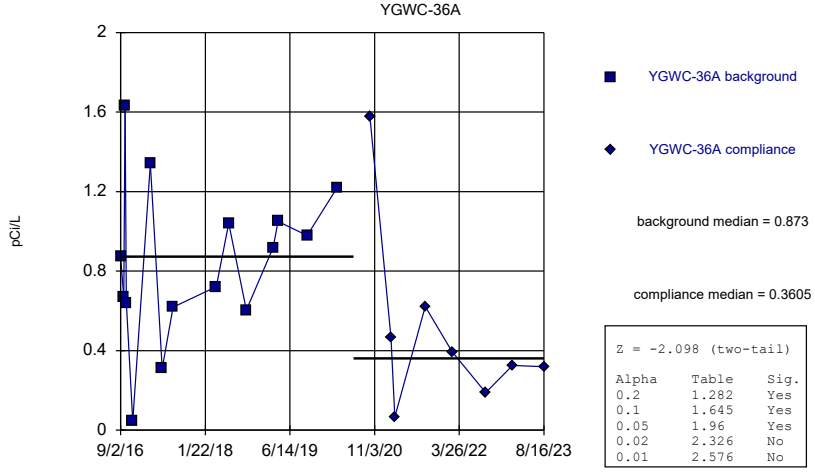
Mann-Whitney (Wilcoxon Rank Sum)



Z = -2.098 (two-tail)

Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	No
0.01	2.576	No

Constituent: Combined Radium 226 + 228 Analysis Run 10/18/2023 9:00 AM View: Mann-Whitney
Plant Yates Data: Plant Yates AMA-R6

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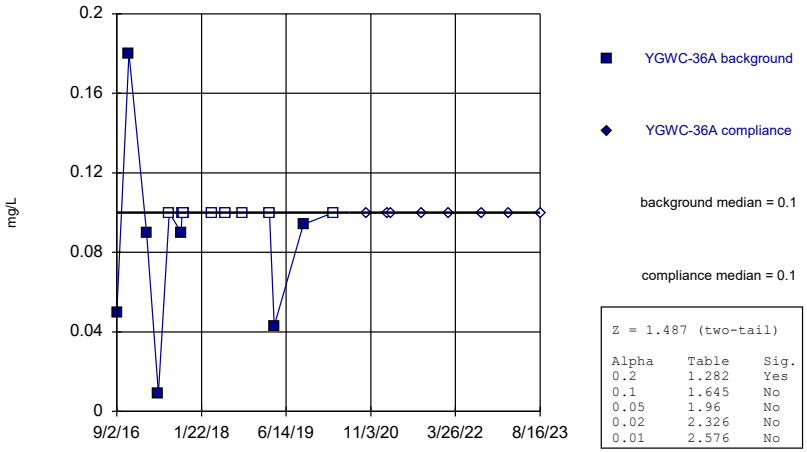
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

YGWC-36A



Z = 1.487 (two-tail)

Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Fluoride Analysis Run 10/18/2023 9:00 AM View: Mann-Whitney
Plant Yates Data: Plant Yates AMA-R6

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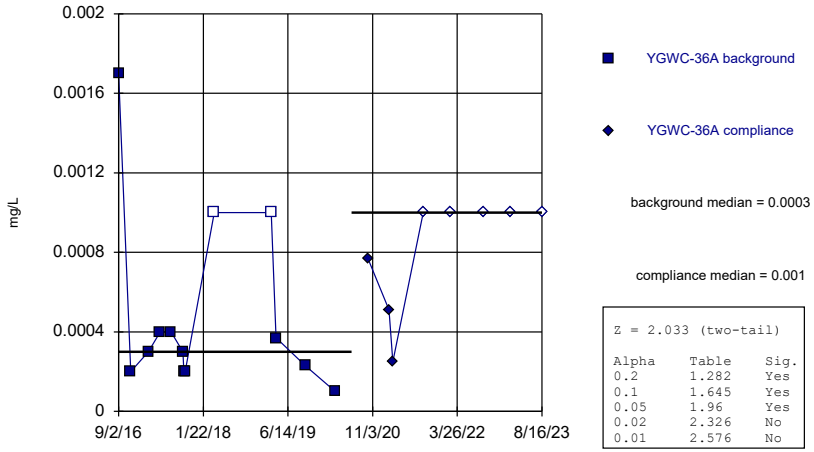
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

YGWC-36A



Z = 2.033 (two-tail)

Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	No
0.01	2.576	No

Constituent: Lead Analysis Run 10/18/2023 9:00 AM View: Mann-Whitney
Plant Yates Data: Plant Yates AMA-R6

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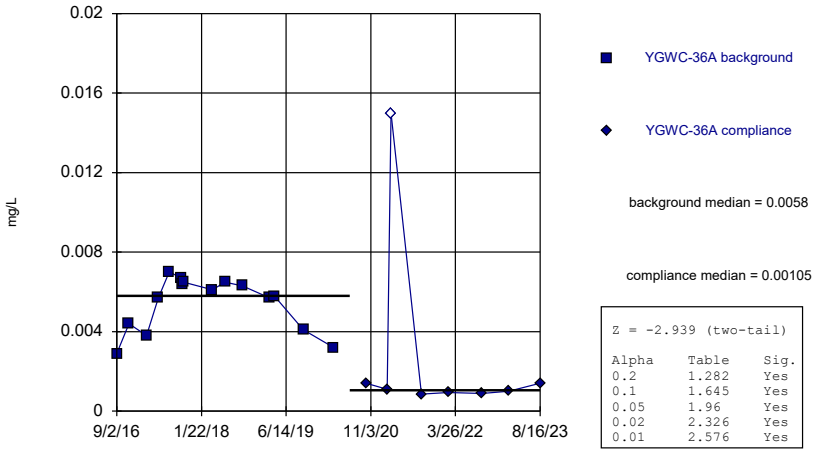
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

YGWC-36A



Z = -2.939 (two-tail)

Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	Yes

Constituent: Lithium Analysis Run 10/18/2023 9:00 AM View: Mann-Whitney
Plant Yates Data: Plant Yates AMA-R6

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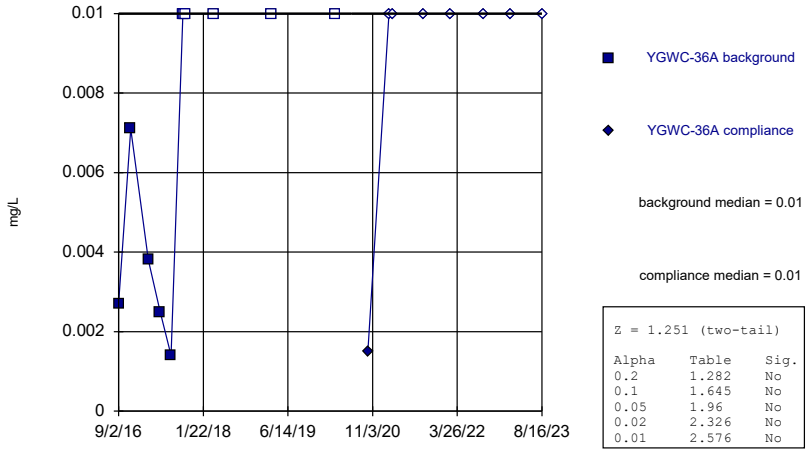
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)

YGWC-36A



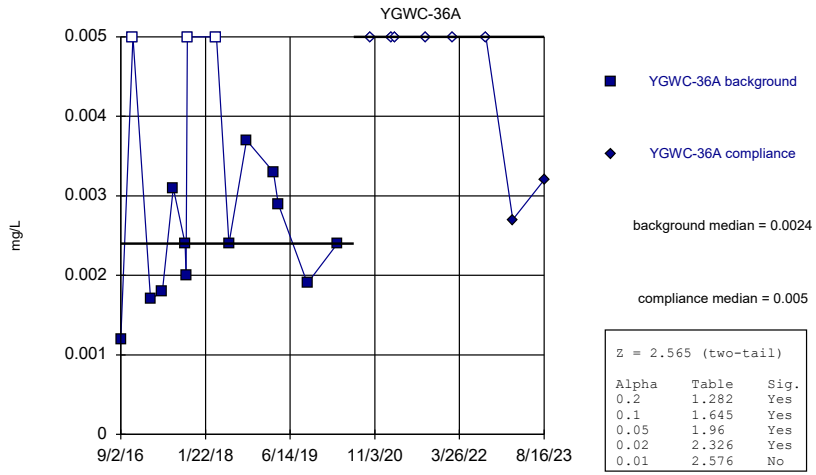
Z = 1.251 (two-tail)

Alpha	Table	Sig.
0.2	1.282	No
0.1	1.645	No
0.05	1.96	No
0.02	2.326	No
0.01	2.576	No

Constituent: Molybdenum Analysis Run 10/18/2023 9:00 AM View: Mann-Whitney
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.13 Software licensed to . UG
Hollow symbols indicate censored values.

Mann-Whitney (Wilcoxon Rank Sum)



YGWC-36A background

YGWC-36A compliance

background median = 0.0024

compliance median = 0.005

Z = 2.565 (two-tail)

Alpha	Table	Sig.
0.2	1.282	Yes
0.1	1.645	Yes
0.05	1.96	Yes
0.02	2.326	Yes
0.01	2.576	No

Constituent: Selenium Analysis Run 10/18/2023 9:00 AM View: Mann-Whitney

Plant Yates Data: Plant Yates AMA-R6

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Antimony (mg/L) Analysis Run 10/18/2023 9:01 AM View: Mann-Whitney

Plant Yates Data: Plant Yates AMA-R6

	YGWC-36A	YGWC-36A
9/2/2016	<0.003	
11/14/2016	0.0014 (J)	
2/28/2017	0.0004 (J)	
5/9/2017	<0.003	
7/13/2017	<0.003	
9/22/2017	<0.003	
9/29/2017	<0.003	
10/6/2017	<0.003	
3/30/2018	<0.003	
3/6/2019	0.0011 (J)	
4/4/2019	0.0041	
9/26/2019	0.0065	
3/25/2020	0.0011 (J)	
10/7/2020		<0.003
2/10/2021		0.028
3/4/2021		0.0015 (J)
9/3/2021		0.0016 (J)
2/11/2022		0.0023 (J)
9/1/2022		<0.003
2/9/2023		<0.003
8/16/2023		<0.003

ND substitution: RL or RL/2 if <15% NDs.

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Arsenic (mg/L) Analysis Run 10/18/2023 9:01 AM View: Mann-Whitney

Plant Yates Data: Plant Yates AMA-R6

	YGWC-36A	YGWC-36A
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	
3/30/2018	<0.005	
6/13/2018	0.00066 (J)	
9/26/2018	<0.005	
3/6/2019	<0.005	
4/4/2019	<0.005	
9/26/2019	<0.005	
3/25/2020	<0.005	
10/7/2020		<0.005
2/10/2021		0.00088 (J)
3/4/2021		<0.005
9/3/2021		<0.005
2/11/2022		0.0014 (J)
9/1/2022		<0.005
2/9/2023		0.0047 (J)
8/16/2023		<0.005

ND substitution: RL or RL/2 if <15% NDs.

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Barium (mg/L) Analysis Run 10/18/2023 9:01 AM View: Mann-Whitney

Plant Yates Data: Plant Yates AMA-R6

	YGWC-36A	YGWC-36A
9/2/2016	0.0409	
11/14/2016	0.0182	
2/28/2017	0.023	
5/9/2017	0.0349	
7/13/2017	0.0484	
9/22/2017	0.0491	
9/29/2017	0.0452	
10/6/2017	0.0508	
3/30/2018	0.043	
6/13/2018	0.046	
9/26/2018	0.048	
3/6/2019	0.041	
4/4/2019	0.042	
9/26/2019	0.025	
3/25/2020	0.025	
10/7/2020		0.04
2/10/2021		0.035
3/4/2021		0.028
9/3/2021		0.038
2/11/2022		0.044
9/1/2022		0.059
2/9/2023		0.097
8/16/2023		0.19

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Beryllium (mg/L) Analysis Run 10/18/2023 9:01 AM View: Mann-Whitney

Plant Yates Data: Plant Yates AMA-R6

	YGWC-36A	YGWC-36A
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)	
3/30/2018	<0.0005	
6/13/2018	0.00035 (J)	
9/26/2018	0.00032 (J)	
3/6/2019	0.00029 (J)	
4/4/2019	0.00033 (J)	
9/26/2019	0.00029 (J)	
3/25/2020	0.00022 (J)	
10/7/2020		0.00014 (J)
2/10/2021		9.9E-05 (J)
3/4/2021		0.00016 (J)
9/3/2021		0.00035 (J)
2/11/2022		0.00043 (J)
9/1/2022		0.00053
2/9/2023		0.00066
8/16/2023		0.0011

ND substitution: RL or RL/2 if <15% NDs.

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Cadmium (mg/L) Analysis Run 10/18/2023 9:01 AM View: Mann-Whitney

Plant Yates Data: Plant Yates AMA-R6

	YGWC-36A	YGWC-36A
9/2/2016	<0.0005	
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)	
3/30/2018	<0.0005	
6/13/2018	0.00019 (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)	
10/7/2020		0.00012 (J)
2/10/2021		<0.0005
3/4/2021		<0.0005
9/3/2021		<0.0005
2/11/2022		<0.0005
9/1/2022		<0.0005
2/9/2023		<0.0005
8/16/2023		<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Chromium (mg/L) Analysis Run 10/18/2023 9:01 AM View: Mann-Whitney

Plant Yates Data: Plant Yates AMA-R6

	YGWC-36A	YGWC-36A
9/2/2016	<0.005	
11/14/2016	0.0035	
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	
3/6/2019	<0.005	
3/25/2020	0.00074 (J)	
10/7/2020		0.0013 (J)
2/10/2021		0.00094 (J)
3/4/2021		<0.005
9/3/2021		<0.005
2/11/2022		<0.005
9/1/2022		<0.005
2/9/2023		<0.005
8/16/2023		<0.005

ND substitution: RL or RL/2 if <15% NDs.

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Cobalt (mg/L) Analysis Run 10/18/2023 9:01 AM View: Mann-Whitney

Plant Yates Data: Plant Yates AMA-R6

	YGWC-36A	YGWC-36A
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
2/11/2022		<0.005
9/1/2022		<0.005
2/9/2023		<0.005
8/16/2023		<0.005

ND substitution: RL or RL/2 if <15% NDs.

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/18/2023 9:01 AM View: Mann-Whitney

Plant Yates Data: Plant Yates AMA-R6

	YGWC-36A	YGWC-36A
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)	
2/28/2017	1.34 (U)	
5/9/2017	0.309 (U)	
7/13/2017	0.618 (U)	
3/30/2018	0.721 (U)	
6/13/2018	1.04 (U)	
9/26/2018	0.604 (U)	
3/6/2019	0.919 (U)	
4/4/2019	1.05 (U)	
9/26/2019	0.979 (U)	
3/25/2020	1.22 (U)	
10/7/2020		1.58
2/10/2021		0.466 (U)
3/4/2021		0.0671 (U)
9/3/2021		0.622 (U)
2/11/2022		0.395 (U)
9/1/2022		0.189 (U)
2/9/2023		0.326 (U)
8/16/2023		0.319 (U)

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Fluoride (mg/L) Analysis Run 10/18/2023 9:01 AM View: Mann-Whitney

Plant Yates Data: Plant Yates AMA-R6

	YGWC-36A	YGWC-36A
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	
3/30/2018	<0.1	
6/13/2018	<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	
10/7/2020		<0.1
2/10/2021		<0.1
3/4/2021		<0.1
9/3/2021		<0.1
2/11/2022		<0.1
9/1/2022		<0.1
2/9/2023		<0.1
8/16/2023		<0.1

ND substitution: RL or RL/2 if <15% NDs.

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Lead (mg/L) Analysis Run 10/18/2023 9:01 AM View: Mann-Whitney

Plant Yates Data: Plant Yates AMA-R6

	YGWC-36A	YGWC-36A
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)	
3/30/2018	<0.001	
3/6/2019	<0.001	
4/4/2019	0.00037 (J)	
9/26/2019	0.00023 (J)	
3/25/2020	0.0001 (J)	
10/7/2020		0.00077 (J)
2/10/2021		0.00051 (J)
3/4/2021		0.00025 (J)
9/3/2021		<0.001
2/11/2022		<0.001
9/1/2022		<0.001
2/9/2023		<0.001
8/16/2023		<0.001

ND substitution: RL or RL/2 if <15% NDs.

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Lithium (mg/L) Analysis Run 10/18/2023 9:01 AM View: Mann-Whitney

Plant Yates Data: Plant Yates AMA-R6

	YGWC-36A	YGWC-36A
9/2/2016	0.0029 (J)	
11/14/2016	0.0044 (J)	
2/28/2017	0.0038 (J)	
5/9/2017	0.0057 (J)	
7/13/2017	0.007 (J)	
9/22/2017	0.0067 (J)	
9/29/2017	0.0064 (J)	
10/6/2017	0.0065 (J)	
3/30/2018	0.0061 (J)	
6/13/2018	0.0065 (J)	
9/26/2018	0.0063 (J)	
3/6/2019	0.0057 (J)	
4/4/2019	0.0058 (J)	
9/26/2019	0.0041 (J)	
3/25/2020	0.0032 (J)	
10/7/2020		0.0014 (J)
2/10/2021		0.0011 (J)
3/4/2021		<0.03
9/3/2021		0.00086 (J)
2/11/2022		0.00093 (J)
9/1/2022		0.00089 (J)
2/9/2023		0.001 (J)
8/16/2023		0.0014 (J)

ND substitution: RL or RL/2 if <15% NDs.

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Molybdenum (mg/L) Analysis Run 10/18/2023 9:01 AM View: Mann-Whitney

Plant Yates Data: Plant Yates AMA-R6

	YGWC-36A	YGWC-36A
9/2/2016	0.0027 (J)	
11/14/2016	0.0071 (J)	
2/28/2017	0.0038 (J)	
5/9/2017	0.0025 (J)	
7/13/2017	0.0014 (J)	
9/22/2017	<0.01	
9/29/2017	<0.01	
10/6/2017	<0.01	
3/30/2018	<0.01	
3/6/2019	<0.01	
3/25/2020	<0.01	
10/7/2020		0.0015 (J)
2/10/2021		<0.01
3/4/2021		<0.01
9/3/2021		<0.01
2/11/2022		<0.01
9/1/2022		<0.01
2/9/2023		<0.01
8/16/2023		<0.01

ND substitution: RL or RL/2 if <15% NDs.

Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Selenium (mg/L) Analysis Run 10/18/2023 9:01 AM View: Mann-Whitney

Plant Yates Data: Plant Yates AMA-R6

	YGWC-36A	YGWC-36A
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
2/11/2022		<0.005
9/1/2022		<0.005
2/9/2023		0.0027 (J)
8/16/2023		0.0032 (J)

ND substitution: RL or RL/2 if <15% NDs.

FIGURE G.

Upper Tolerance Limits Summary Table

Plant Yates Data: Plant Yates AMA-R6 Printed 10/18/2023, 9:11 AM

Constituent	Upper Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.0047	n/a	n/a	n/a	410	88.54	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	0.005	n/a	n/a	n/a	458	75.76	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	0.21	n/a	n/a	n/a	458	2.402	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	0.0011	n/a	n/a	n/a	442	79.86	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	0.00063	n/a	n/a	n/a	442	94.8	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	0.0093	n/a	n/a	n/a	410	80.73	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	0.035	n/a	n/a	n/a	452	69.03	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	6.92	n/a	n/a	n/a	437	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	0.68	n/a	n/a	n/a	457	64.33	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	0.0013	n/a	n/a	n/a	412	86.65	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	0.03	n/a	n/a	n/a	437	26.77	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	0.00064	n/a	n/a	n/a	366	89.07	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	0.014	n/a	n/a	n/a	401	61.1	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	0.005	n/a	n/a	n/a	440	92.73	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	n/a	n/a	376	97.34	n/a	n/a	NaN	NP Inter(NDs)

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	0.014	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**Grey cell indicates Background Limit is higher than MCL or CCR Rule Specified Level*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residual*

**GWPS = Groundwater Protection Standard*

FIGURE I.

Appendix IV Confidence Intervals - Significant Results

Plant Yates Data: Plant Yates AMA-R6 Printed 10/18/2023, 9:30 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	**YAMW-3**	**0.16**	**0.058**	**0.035**	**Yes**	**4**	**0**	**None**	**No**	**0.0625**	**NP (selected)**
Selenium (mg/L)	**PZ-37**	**0.2745**	**0.197**	**0.05**	**Yes**	**16**	**0**	**None**	**No**	**0.01**	**Param.**
Selenium (mg/L)	**YGWC-38**	**0.246**	**0.06**	**0.05**	**Yes**	**19**	**0**	**None**	**No**	**0.01**	**NP (normality)**

Appendix IV Confidence Intervals - All Results

Plant Yates Data: Plant Yates AMA-R6 Printed 10/18/2023, 9:30 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	PZ-35	0.003	0.003	0.006	No	10	90	None	No	0.011	NP (NDs)
Antimony (mg/L)	PZ-37	0.003	0.0014	0.006	No	16	81.25	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-37D	0.003	0.0015	0.006	No	5	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	YAMW-1	0.003	0.0016	0.006	No	10	60	None	No	0.011	NP (NDs)
Antimony (mg/L)	YAMW-4	0.003	0.00062	0.006	No	8	62.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	YAMW-5	0.003	0.00033	0.006	No	8	87.5	None	No	0.004	NP (NDs)
Antimony (mg/L)	YGWC-23S	0.003	0.00085	0.006	No	21	85.71	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-24SB	0.003	0.0009	0.006	No	20	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-36A	0.0041	0.0015	0.006	No	21	52.38	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-38	0.003	0.0015	0.006	No	18	77.78	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-41	0.003	0.0014	0.006	No	18	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-42	0.003	0.00053	0.006	No	18	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-43	0.003	0.0026	0.006	No	18	88.89	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-49	0.003	0.0011	0.006	No	18	88.89	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-35	0.005	0.00096	0.01	No	11	63.64	None	No	0.006	NP (NDs)
Arsenic (mg/L)	PZ-37	0.005	0.00094	0.01	No	16	43.75	None	No	0.01	NP (normality)
Arsenic (mg/L)	PZ-51	0.005	0.0013	0.01	No	4	75	Kaplan-Meier	No	0.0625	NP (NDs)
Arsenic (mg/L)	PZ-52D	0.004343	0.0002567	0.01	No	4	50	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	YAMW-1	0.005	0.0034	0.01	No	11	81.82	None	No	0.006	NP (NDs)
Arsenic (mg/L)	YAMW-3	0.005	0.0038	0.01	No	4	75	None	No	0.0625	NP (NDs)
Arsenic (mg/L)	YAMW-4	0.005	0.00079	0.01	No	8	50	None	No	0.004	NP (normality)
Arsenic (mg/L)	YAMW-5	0.005	0.00095	0.01	No	8	50	None	No	0.004	NP (normality)
Arsenic (mg/L)	YGWC-23S	0.005	0.0025	0.01	No	23	91.3	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-24SB	0.005	0.0035	0.01	No	22	86.36	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-36A	0.005	0.0047	0.01	No	23	73.91	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-38	0.005	0.00072	0.01	No	19	26.32	None	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-41	0.005	0.00072	0.01	No	19	52.63	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-42	0.00228	0.001457	0.01	No	19	21.05	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	YGWC-43	0.005	0.0022	0.01	No	19	73.68	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-49	0.005	0.001	0.01	No	18	83.33	Kaplan-Meier	No	0.01	NP (NDs)
Barium (mg/L)	PZ-35	0.1054	0.03557	2	No	11	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	PZ-37	0.05128	0.03299	2	No	16	0	None	No	0.01	Param.
Barium (mg/L)	PZ-37D	0.03319	0.006806	2	No	5	0	None	No	0.01	Param.
Barium (mg/L)	PZ-51	0.01863	0.01087	2	No	4	0	None	No	0.01	Param.
Barium (mg/L)	PZ-52D	0.0426	0.002652	2	No	4	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	YAMW-1	0.07885	0.03952	2	No	11	0	None	No	0.01	Param.
Barium (mg/L)	YAMW-2	0.009293	0.007032	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	YAMW-3	0.05591	0.01059	2	No	4	0	None	No	0.01	Param.
Barium (mg/L)	YAMW-4	0.021	0.003	2	No	8	0	None	No	0.004	NP (normality)
Barium (mg/L)	YAMW-5	0.057	0.034	2	No	8	0	None	No	0.004	NP (normality)
Barium (mg/L)	YGWC-23S	0.04754	0.03351	2	No	23	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-24SB	0.025	0.019	2	No	22	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-36A	0.0484	0.0349	2	No	23	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-38	0.02175	0.01691	2	No	19	0	None	ln(x)	0.01	Param.
Barium (mg/L)	YGWC-41	0.02773	0.02029	2	No	19	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-42	0.04124	0.02866	2	No	19	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	YGWC-43	0.0332	0.01963	2	No	19	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-49	0.07665	0.06658	2	No	18	0	None	No	0.01	Param.
Beryllium (mg/L)	PZ-35	0.0006805	0.0002988	0.004	No	12	16.67	Kaplan-Meier	No	0.01	Param.
Beryllium (mg/L)	PZ-37	0.001	0.00025	0.004	No	16	12.5	None	No	0.01	NP (normality)
Beryllium (mg/L)	PZ-51	0.003789	0.002011	0.004	No	4	0	None	No	0.01	Param.
Beryllium (mg/L)	PZ-52D	0.0001093	0.00004644	0.004	No	4	50	Kaplan-Meier	ln(x)	0.01	Param.
Beryllium (mg/L)	YAMW-1	0.0002411	0.00008725	0.004	No	11	36.36	Kaplan-Meier	x^(1/3)	0.01	Param.
Beryllium (mg/L)	YAMW-2	0.0005	0.000051	0.004	No	8	25	None	No	0.004	NP (normality)
Beryllium (mg/L)	YAMW-3	0.00017	0.000062	0.004	No	4	0	None	No	0.0625	NP (selected)

Appendix IV Confidence Intervals - All Results

Plant Yates Data: Plant Yates AMA-R6 Printed 10/18/2023, 9:30 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	YAMW-5	0.0001496	0.0001028	0.004	No	9	0	None	No	0.01	Param.
Beryllium (mg/L)	YGWC-23S	0.00023	0.00009	0.004	No	23	21.74	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-24SB	0.000159	0.000103	0.004	No	22	13.64	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	YGWC-36A	0.0003979	0.0002085	0.004	No	23	4.348	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	YGWC-38	0.0056	0.0027	0.004	No	19	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-41	0.0037	0.0013	0.004	No	19	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-42	0.0005	0.000062	0.004	No	19	57.89	None	No	0.01	NP (NDs)
Beryllium (mg/L)	YGWC-43	0.00053	0.0003	0.004	No	19	31.58	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-49	0.00015	0.0001	0.004	No	18	5.556	None	No	0.01	NP (normality)
Cadmium (mg/L)	PZ-35	0.0005	0.00016	0.005	No	11	63.64	None	No	0.006	NP (NDs)
Cadmium (mg/L)	PZ-37	0.0007767	0.0004208	0.005	No	16	12.5	None	No	0.01	Param.
Cadmium (mg/L)	PZ-51	0.001992	0.001558	0.005	No	4	0	None	No	0.01	Param.
Cadmium (mg/L)	YAMW-1	0.0005	0.00014	0.005	No	11	36.36	None	No	0.006	NP (normality)
Cadmium (mg/L)	YAMW-2	0.0005	0.00015	0.005	No	8	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	YAMW-3	0.0005	0.00048	0.005	No	4	75	None	No	0.0625	NP (NDs)
Cadmium (mg/L)	YAMW-5	0.00046	0.00018	0.005	No	8	0	None	No	0.004	NP (normality)
Cadmium (mg/L)	YGWC-23S	0.0005	0.00007	0.005	No	23	95.65	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-36A	0.0005	0.00012	0.005	No	8	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	YGWC-38	0.0029	0.0011	0.005	No	19	0	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-41	0.0005	0.00017	0.005	No	19	42.11	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-42	0.0005	0.0002	0.005	No	19	52.63	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-49	0.0005	0.00007	0.005	No	18	94.44	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-35	0.005	0.0006	0.1	No	9	44.44	None	No	0.002	NP (normality)
Chromium (mg/L)	PZ-37	0.005	0.0019	0.1	No	16	81.25	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-52D	0.005	0.0011	0.1	No	4	75	None	No	0.0625	NP (NDs)
Chromium (mg/L)	YAMW-1	0.005	0.00058	0.1	No	9	44.44	None	No	0.002	NP (normality)
Chromium (mg/L)	YAMW-2	0.005	0.00071	0.1	No	8	50	None	No	0.004	NP (normality)
Chromium (mg/L)	YAMW-3	0.005	0.0011	0.1	No	4	75	None	No	0.0625	NP (NDs)
Chromium (mg/L)	YAMW-4	0.005	0.00057	0.1	No	8	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	YAMW-5	0.005	0.0016	0.1	No	8	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	YGWC-23S	0.005	0.00086	0.1	No	19	63.16	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-24SB	0.005	0.0011	0.1	No	18	83.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-36A	0.005	0.0035	0.1	No	19	78.95	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-38	0.005	0.00065	0.1	No	19	89.47	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-41	0.005	0.00039	0.1	No	19	94.74	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-42	0.005	0.0013	0.1	No	19	84.21	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-43	0.005	0.00074	0.1	No	19	78.95	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-49	0.002	0.0016	0.1	No	17	5.882	None	No	0.01	NP (normality)
Cobalt (mg/L)	PZ-35	0.005	0.005	0.035	No	11	90.91	None	No	0.006	NP (NDs)
Cobalt (mg/L)	PZ-37	0.009365	0.003532	0.035	No	16	0	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	PZ-51	0.033	0.0056	0.035	No	4	0	None	No	0.0625	NP (selected)
Cobalt (mg/L)	PZ-52D	0.004173	0.00002746	0.035	No	4	0	None	No	0.01	Param.
Cobalt (mg/L)	YAMW-1	0.02092	0.005216	0.035	No	12	16.67	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	YAMW-2	0.004809	0.0005225	0.035	No	8	12.5	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	**YAMW-3**	**0.16**	**0.058**	**0.035**	**Yes**	**4**	**0**	**None**	**No**	**0.0625**	**NP (selected)**
Cobalt (mg/L)	YAMW-4	0.0025	0.00041	0.035	No	8	12.5	None	No	0.004	NP (normality)
Cobalt (mg/L)	YAMW-5	0.005	0.00077	0.035	No	8	87.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	YGWC-36A	0.005	0.00086	0.035	No	23	78.26	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-41	0.005	0.0011	0.035	No	19	78.95	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-42	0.00212	0.001655	0.035	No	19	5.263	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YGWC-43	0.005	0.0005	0.035	No	19	36.84	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-49	0.005	0.0008	0.035	No	18	77.78	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	PZ-35	0.9183	0.3229	6.92	No	10	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-37	1.898	1.173	6.92	No	16	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-37D	3.653	0.7289	6.92	No	5	0	None	No	0.01	Param.

Appendix IV Confidence Intervals - All Results

Plant Yates Data: Plant Yates AMA-R6 Printed 10/18/2023, 9:30 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	PZ-51	1.367	0.004771	6.92	No	4	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-52D	1.88	0.218	6.92	No	5	0	None	No	0.031	NP (selected)
Combined Radium 226 + 228 (pCi/L)	YAMW-1	0.6764	0.3418	6.92	No	10	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YAMW-2	0.8326	0.07787	6.92	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YAMW-3	2.77	0.975	6.92	No	4	0	None	No	0.0625	NP (selected)
Combined Radium 226 + 228 (pCi/L)	YAMW-4	1.009	0.1866	6.92	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YAMW-5	1.257	0.579	6.92	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-23S	0.7786	0.3935	6.92	No	23	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-24SB	0.766	0.4808	6.92	No	22	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-36A	0.9566	0.4886	6.92	No	23	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-38	1.134	0.5692	6.92	No	19	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-41	1.251	0.5991	6.92	No	19	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-42	2.282	0.9922	6.92	No	19	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-43	3.947	1.864	6.92	No	19	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-49	1.041	0.5266	6.92	No	18	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-37	0.26	0.1	4	No	16	75	None	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-37D	0.3519	0.08806	4	No	5	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-51	0.13	0.097	4	No	4	0	None	No	0.0625	NP (normality)
Fluoride (mg/L)	PZ-52D	0.1396	0.0299	4	No	4	0	None	No	0.01	Param.
Fluoride (mg/L)	YAMW-2	0.1	0.061	4	No	8	75	None	No	0.004	NP (NDs)
Fluoride (mg/L)	YAMW-3	0.09558	0.07175	4	No	4	25	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	YAMW-4	0.14	0.078	4	No	8	50	None	No	0.004	NP (normality)
Fluoride (mg/L)	YAMW-5	0.1	0.05	4	No	8	75	None	No	0.004	NP (NDs)
Fluoride (mg/L)	YGWC-23S	0.1	0.057	4	No	24	83.33	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-24SB	0.1	0.098	4	No	23	86.96	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-36A	0.1	0.094	4	No	24	70.83	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-38	0.2	0.1	4	No	20	70	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-41	0.11	0.1	4	No	20	90	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-42	0.1	0.07	4	No	20	70	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-43	0.1046	0.0606	4	No	20	20	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-49	0.14	0.09	4	No	19	68.42	Kaplan-Meier	No	0.01	NP (NDs)
Lead (mg/L)	PZ-35	0.001	0.00015	0.015	No	10	80	None	No	0.011	NP (NDs)
Lead (mg/L)	PZ-37	0.001	0.0001	0.015	No	16	68.75	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-52D	0.003871	0.0003706	0.015	No	4	50	Kaplan-Meier	x^(1/3)	0.01	Param.
Lead (mg/L)	YAMW-1	0.001	0.001	0.015	No	10	90	None	No	0.011	NP (NDs)
Lead (mg/L)	YAMW-2	0.001	0.00008	0.015	No	8	75	None	No	0.004	NP (NDs)
Lead (mg/L)	YAMW-4	0.001	0.000096	0.015	No	8	62.5	None	No	0.004	NP (NDs)
Lead (mg/L)	YAMW-5	0.001	0.000041	0.015	No	8	62.5	None	No	0.004	NP (NDs)
Lead (mg/L)	YGWC-23S	0.001	0.00044	0.015	No	21	80.95	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-24SB	0.001	0.00036	0.015	No	20	90	Kaplan-Meier	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-36A	0.0004543	0.0001726	0.015	No	21	33.33	Kaplan-Meier	sqrt(x)	0.01	Param.
Lead (mg/L)	YGWC-38	0.001	0.0001	0.015	No	19	84.21	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-41	0.0011	0.0002	0.015	No	19	73.68	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-42	0.001	0.0002	0.015	No	19	78.95	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-43	0.001	0.00008	0.015	No	19	89.47	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-49	0.001	0.000059	0.015	No	18	94.44	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-35	0.011	0.0011	0.04	No	11	9.091	None	No	0.006	NP (normality)
Lithium (mg/L)	PZ-37	0.02785	0.01961	0.04	No	16	6.25	None	No	0.01	Param.
Lithium (mg/L)	PZ-37D	0.01401	0.003751	0.04	No	5	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-51	0.006571	0.003629	0.04	No	4	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-52D	0.03637	0.009633	0.04	No	4	0	None	No	0.01	Param.
Lithium (mg/L)	YAMW-1	0.01994	0.008837	0.04	No	11	9.091	None	No	0.01	Param.
Lithium (mg/L)	YAMW-3	0.05491	0.03509	0.04	No	5	0	None	No	0.01	Param.
Lithium (mg/L)	YAMW-4	0.03524	0.02366	0.04	No	8	0	None	x^3	0.01	Param.
Lithium (mg/L)	YAMW-5	0.01577	0.01323	0.04	No	8	0	None	No	0.01	Param.

Appendix IV Confidence Intervals - All Results

Plant Yates Data: Plant Yates AMA-R6 Printed 10/18/2023, 9:30 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	YGWC-23S	0.0028	0.0019	0.04	No	23	4.348	None	No	0.01	NP (normality)
Lithium (mg/L)	YGWC-36A	0.015	0.00086	0.04	No	8	12.5	None	No	0.004	NP (normality)
Lithium (mg/L)	YGWC-38	0.008506	0.00702	0.04	No	19	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-41	0.0043	0.0021	0.04	No	19	5.263	None	No	0.01	NP (normality)
Lithium (mg/L)	YGWC-42	0.04948	0.03498	0.04	No	19	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-43	0.01773	0.01221	0.04	No	19	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-49	0.003784	0.003416	0.04	No	18	0	None	No	0.01	Param.
Mercury (mg/L)	PZ-37	0.0002	0.00019	0.002	No	16	87.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	YAMW-3	0.0002	0.00016	0.002	No	4	75	None	No	0.0625	NP (NDs)
Mercury (mg/L)	YGWC-23S	0.0002	0.00015	0.002	No	18	88.89	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-38	0.0002	0.00008	0.002	No	16	87.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-41	0.0002	0.00006	0.002	No	16	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-42	0.0002	0.000048	0.002	No	16	93.75	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-43	0.0002	0.00009	0.002	No	16	87.5	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-49	0.0002	0.00014	0.002	No	15	86.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-35	0.01	0.0019	0.1	No	9	88.89	None	No	0.002	NP (NDs)
Molybdenum (mg/L)	PZ-37	0.01	0.0016	0.1	No	16	50	None	No	0.01	NP (normality)
Molybdenum (mg/L)	PZ-37D	0.006227	0.0008931	0.1	No	5	0	None	No	0.01	Param.
Molybdenum (mg/L)	PZ-52D	0.011	0.003	0.1	No	4	0	None	No	0.0625	NP (selected)
Molybdenum (mg/L)	YAMW-1	0.01	0.00089	0.1	No	9	44.44	None	No	0.002	NP (normality)
Molybdenum (mg/L)	YAMW-3	0.01065	0.001548	0.1	No	4	0	None	No	0.01	Param.
Molybdenum (mg/L)	YAMW-4	0.008014	0.006129	0.1	No	8	0	None	x^2	0.01	Param.
Molybdenum (mg/L)	YGWC-36A	0.01	0.0027	0.1	No	19	68.42	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-42	0.01	0.00081	0.1	No	19	31.58	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-43	0.01	0.0012	0.1	No	19	36.84	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-49	0.01	0.0007	0.1	No	17	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-35	0.005	0.003	0.05	No	11	54.55	None	No	0.006	NP (NDs)
Selenium (mg/L)	**PZ-37**	**0.2745**	**0.197**	**0.05**	**Yes**	**16**	**0**	**None**	**No**	**0.01**	**Param.**
Selenium (mg/L)	PZ-51	0.03178	0.02172	0.05	No	4	0	None	No	0.01	Param.
Selenium (mg/L)	PZ-52D	0.011	0.0025	0.05	No	4	0	None	No	0.0625	NP (selected)
Selenium (mg/L)	YAMW-1	0.005	0.0027	0.05	No	11	45.45	None	No	0.006	NP (normality)
Selenium (mg/L)	YAMW-3	0.0075	0.005	0.05	No	5	80	None	No	0.031	NP (NDs)
Selenium (mg/L)	YAMW-4	0.01909	0.002432	0.05	No	9	22.22	Kaplan-Meier	x^2	0.01	Param.
Selenium (mg/L)	YAMW-5	0.05996	0.04227	0.05	No	9	0	None	x^2	0.01	Param.
Selenium (mg/L)	YGWC-23S	0.03843	0.0285	0.05	No	23	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-36A	0.005	0.002	0.05	No	23	39.13	None	No	0.01	NP (normality)
Selenium (mg/L)	**YGWC-38**	**0.246**	**0.06**	**0.05**	**Yes**	**19**	**0**	**None**	**No**	**0.01**	**NP (normality)**
Selenium (mg/L)	YGWC-41	0.067	0.027	0.05	No	19	0	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-42	0.05297	0.0382	0.05	No	19	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-49	0.008327	0.00654	0.05	No	18	5.556	None	No	0.01	Param.
Thallium (mg/L)	YGWC-49	0.001	0.00009	0.002	No	16	93.75	None	No	0.01	NP (NDs)

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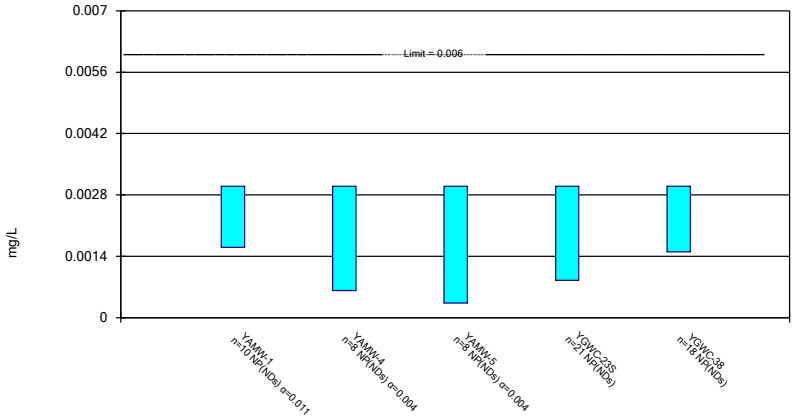
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Antimony Analysis Run 10/18/2023 9:27 AM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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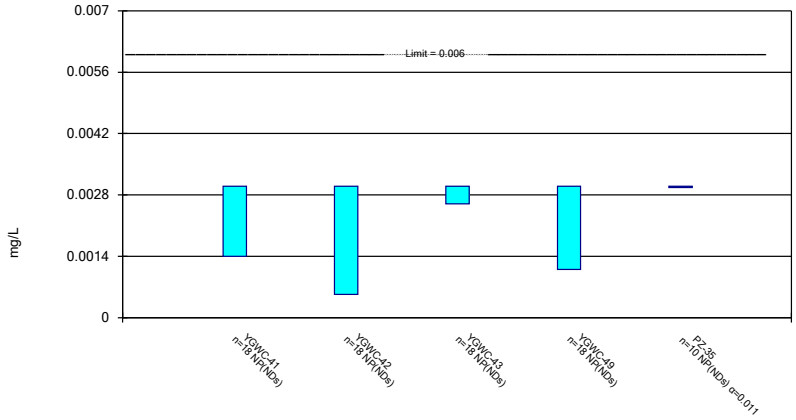
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Antimony Analysis Run 10/18/2023 9:27 AM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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Non-Parametric Confidence Interval

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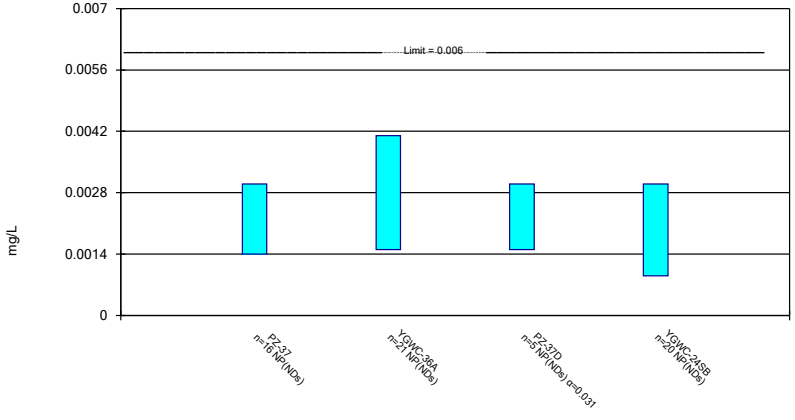

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Plant Yates Data: Plant Yates AMA-R6

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Non-Parametric Confidence Interval

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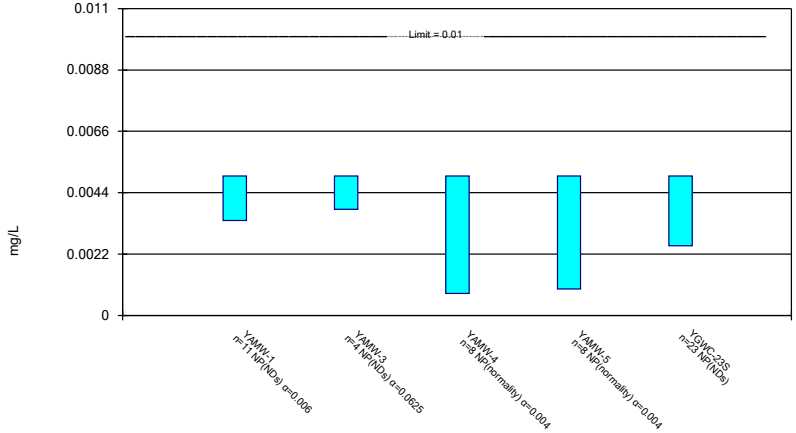

Constituent: Arsenic Analysis Run 10/18/2023 9:27 AM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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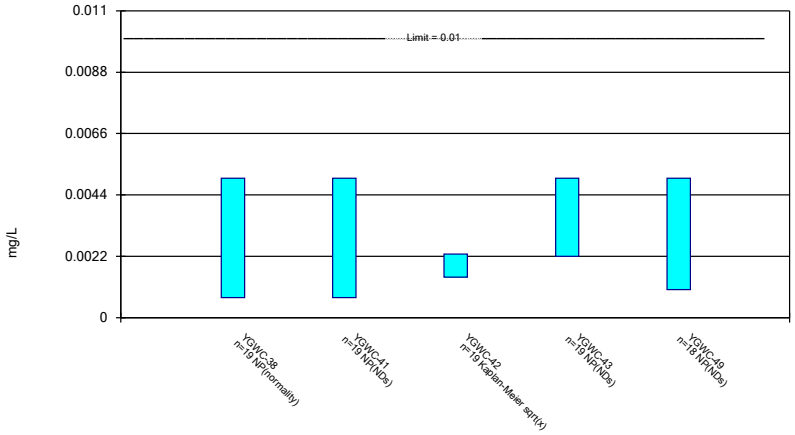
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 10/18/2023 9:27 AM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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Parametric and Non-Parametric (NP) Confidence Interval

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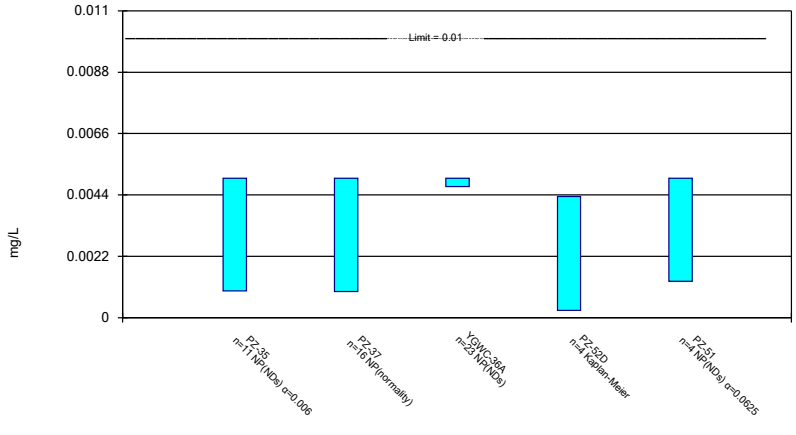

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Plant Yates Data: Plant Yates AMA-R6

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Non-Parametric Confidence Interval

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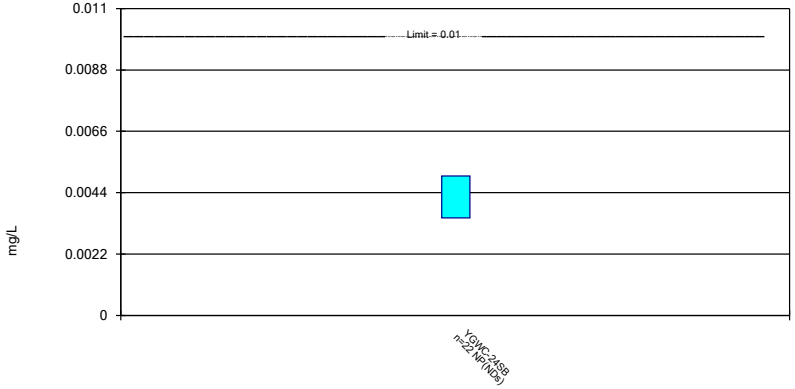

Constituent: Arsenic Analysis Run 10/18/2023 9:27 AM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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Parametric and Non-Parametric (NP) Confidence Interval

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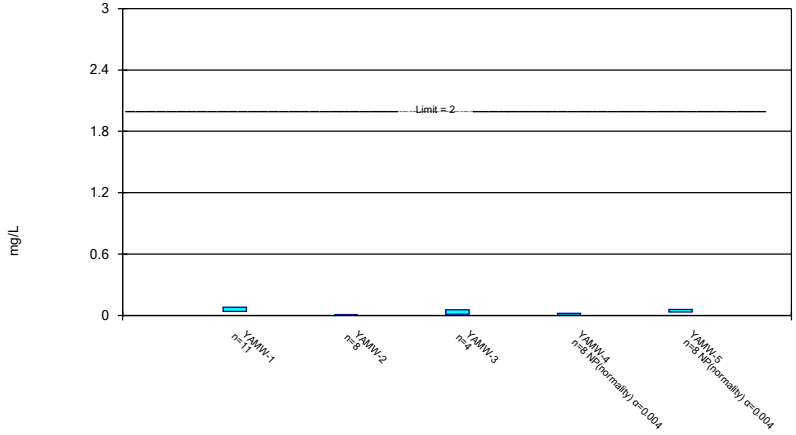

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Plant Yates Data: Plant Yates AMA-R6

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Parametric Confidence Interval

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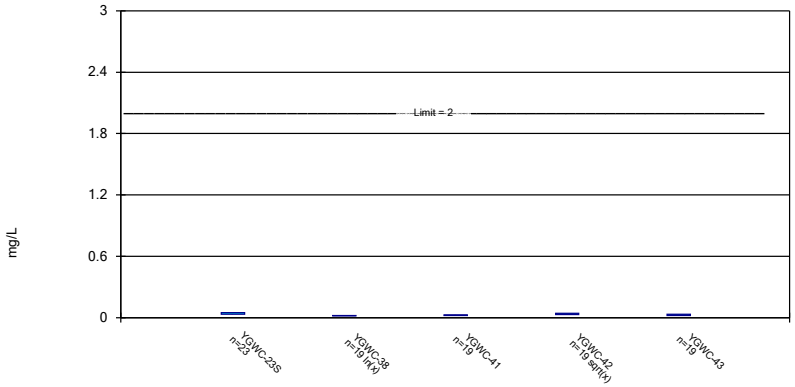

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Plant Yates Data: Plant Yates AMA-R6

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Parametric and Non-Parametric (NP) Confidence Interval

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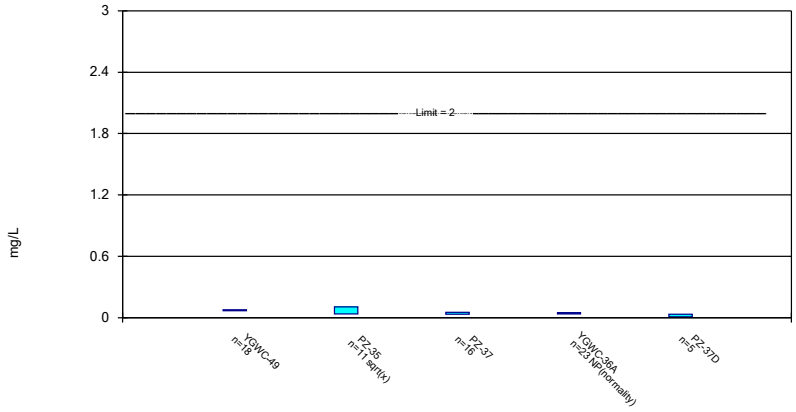

Constituent: Barium Analysis Run 10/18/2023 9:27 AM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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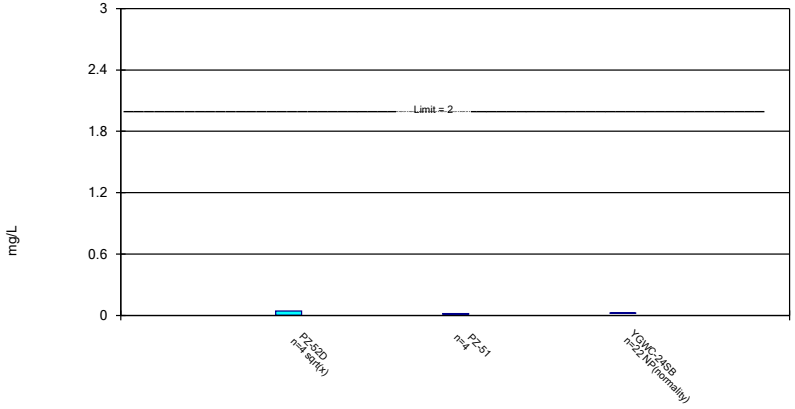
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 10/18/2023 9:27 AM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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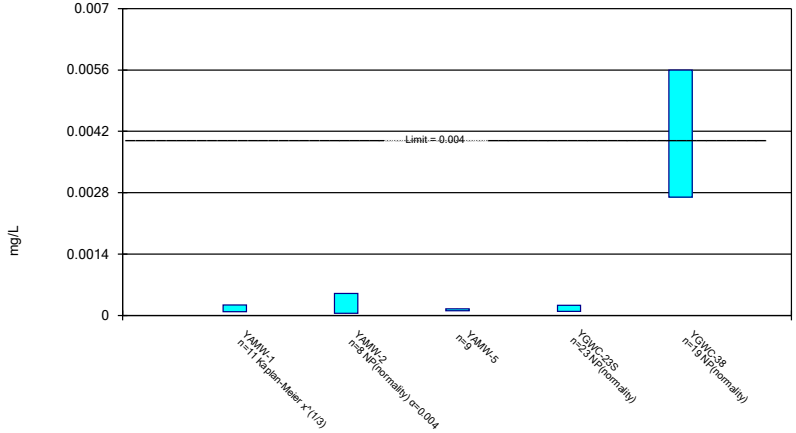
Parametric and Non-Parametric (NP) Confidence Interval

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 10/18/2023 9:27 AM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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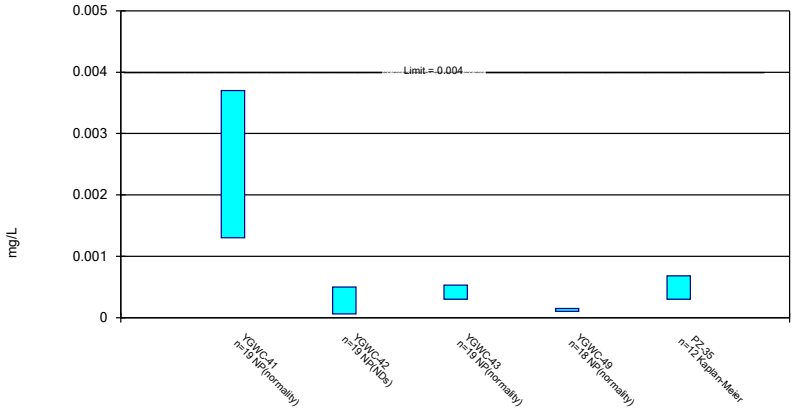
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 10/18/2023 9:27 AM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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Parametric and Non-Parametric (NP) Confidence Interval

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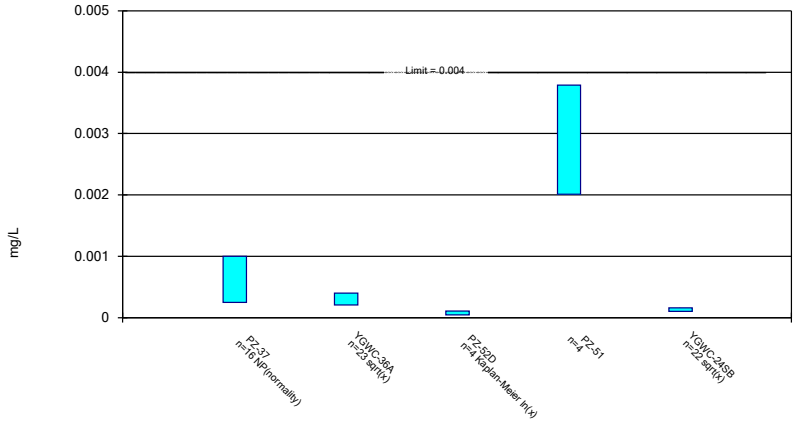

Constituent: Beryllium Analysis Run 10/18/2023 9:27 AM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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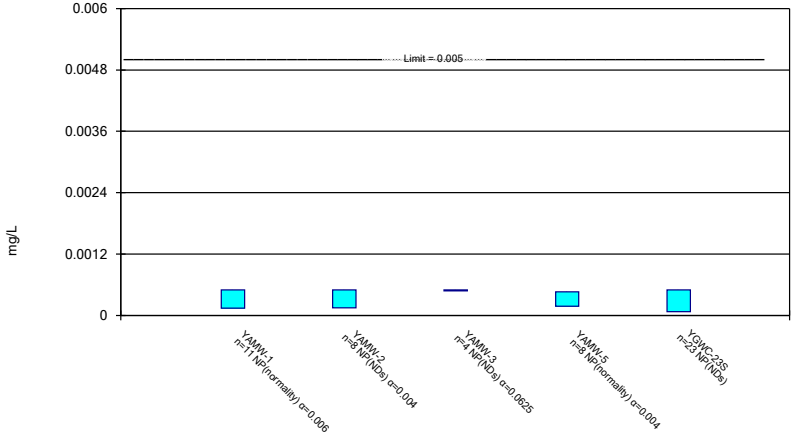
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Cadmium Analysis Run 10/18/2023 9:27 AM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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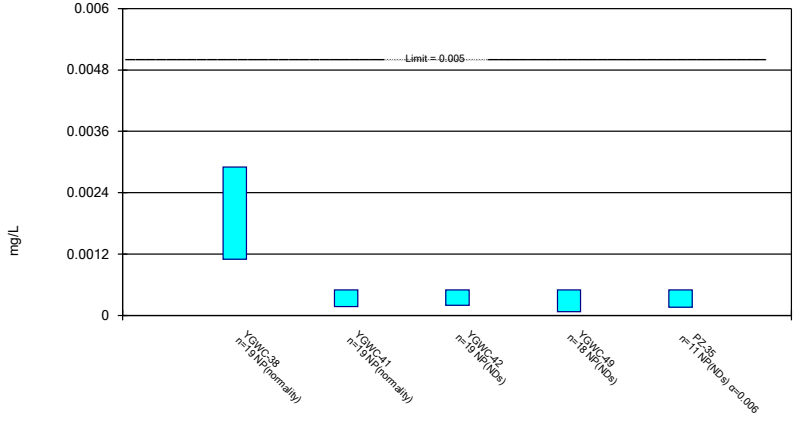
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Cadmium Analysis Run 10/18/2023 9:27 AM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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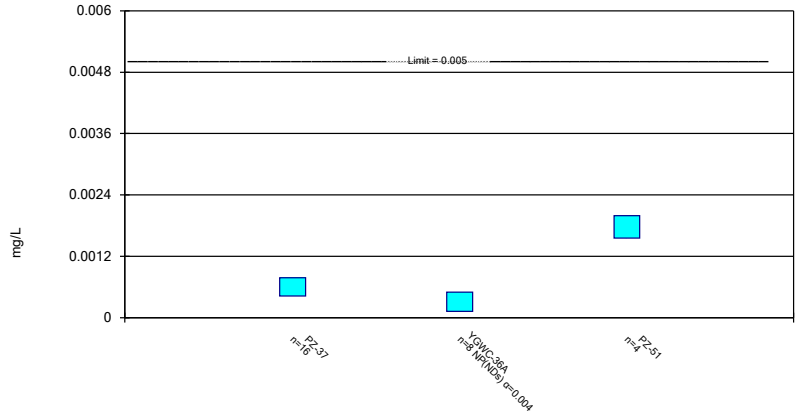
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



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Plant Yates Data: Plant Yates AMA-R6

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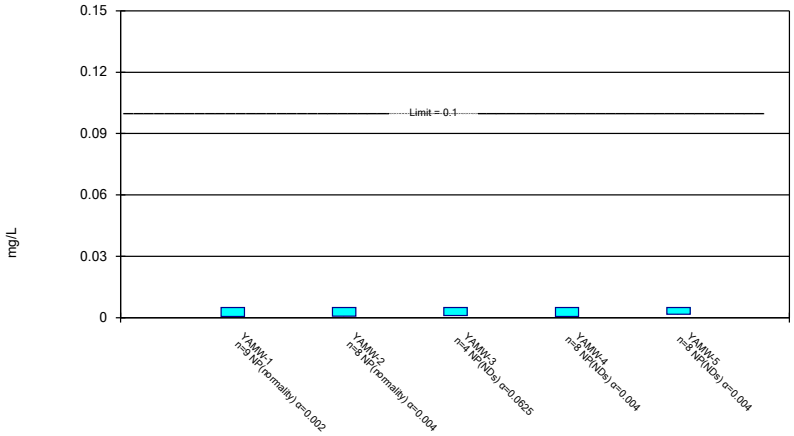
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 10/18/2023 9:27 AM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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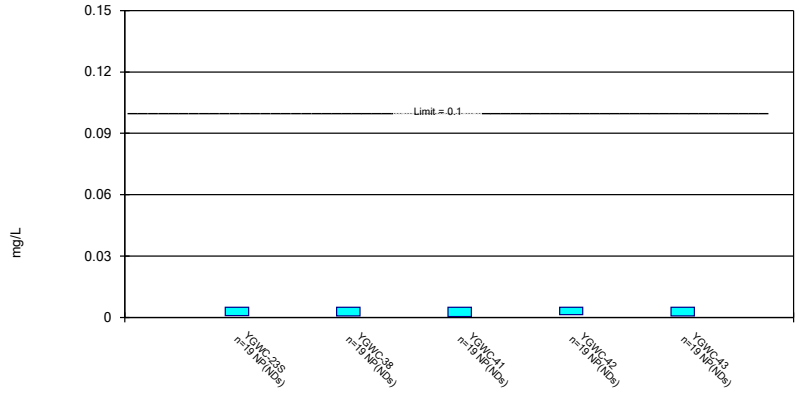
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 10/18/2023 9:27 AM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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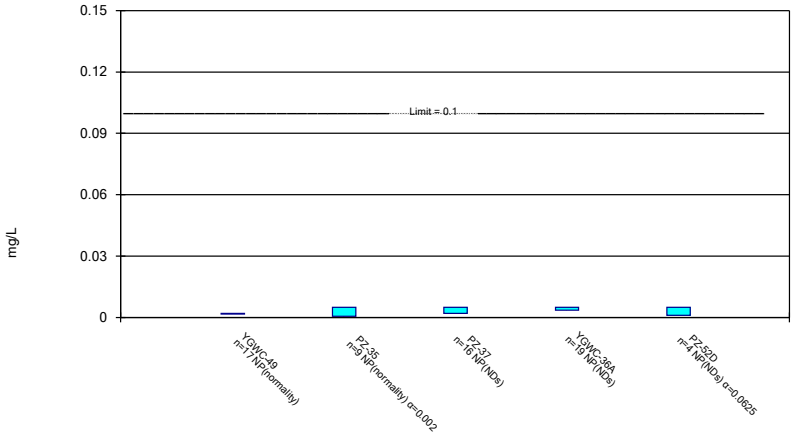
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Chromium Analysis Run 10/18/2023 9:28 AM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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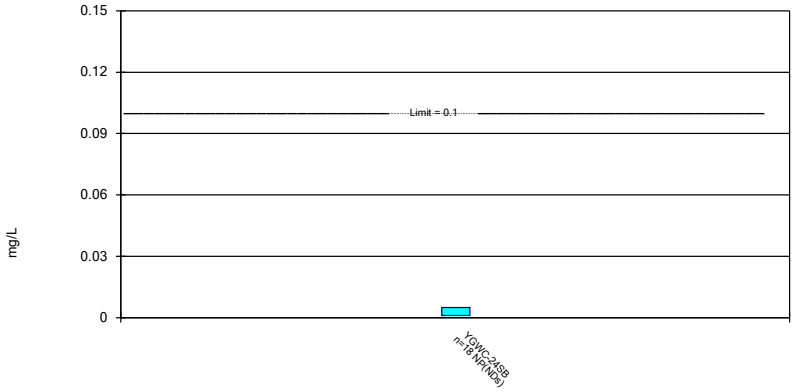
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 10/18/2023 9:28 AM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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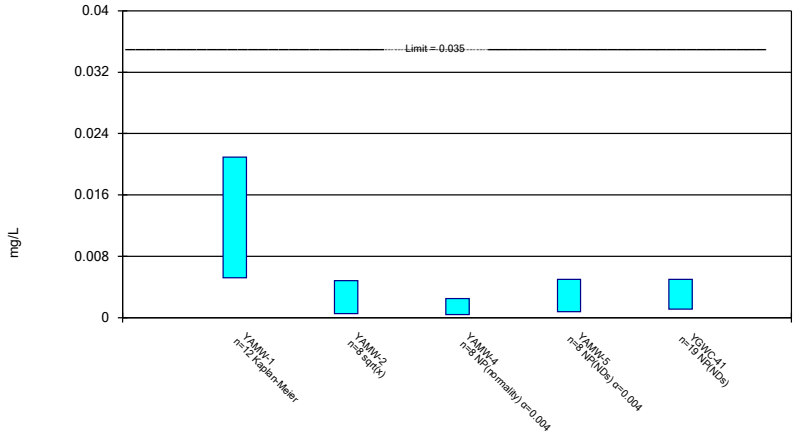
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 10/18/2023 9:28 AM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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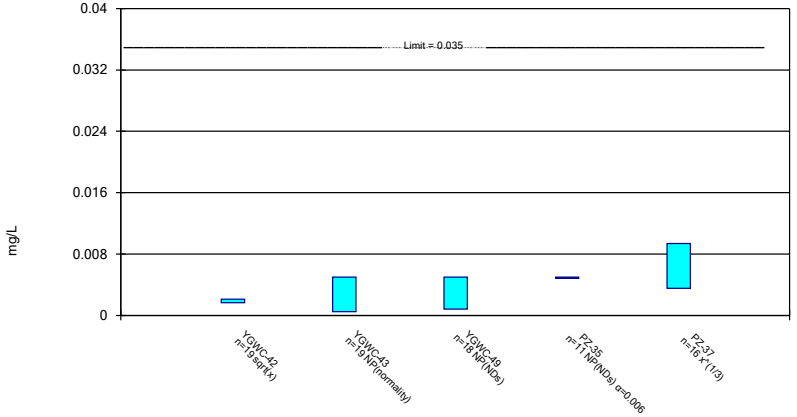
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 10/18/2023 9:28 AM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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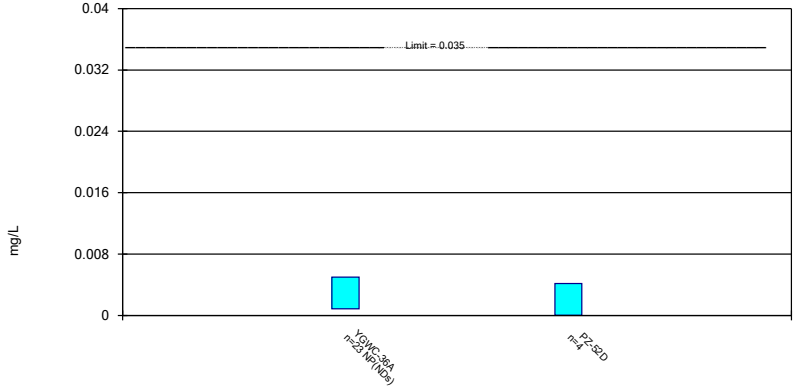
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 10/18/2023 9:28 AM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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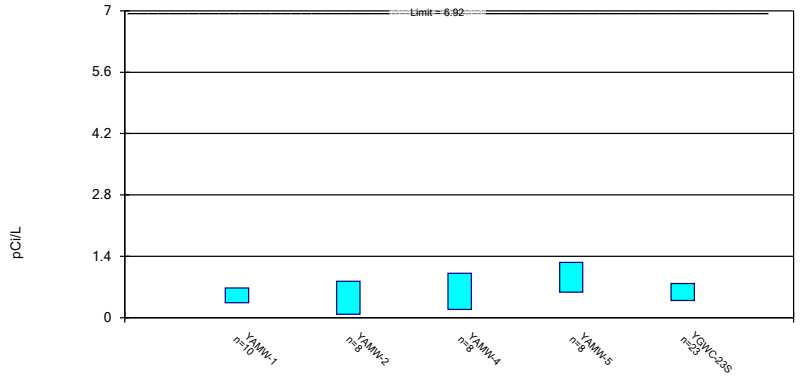
Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 10/18/2023 9:28 AM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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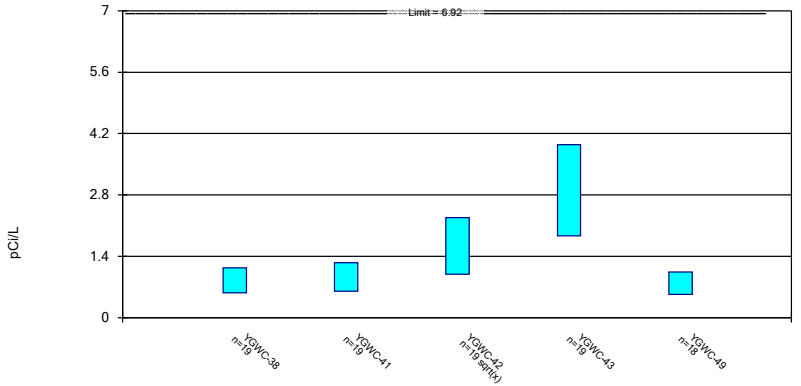
Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

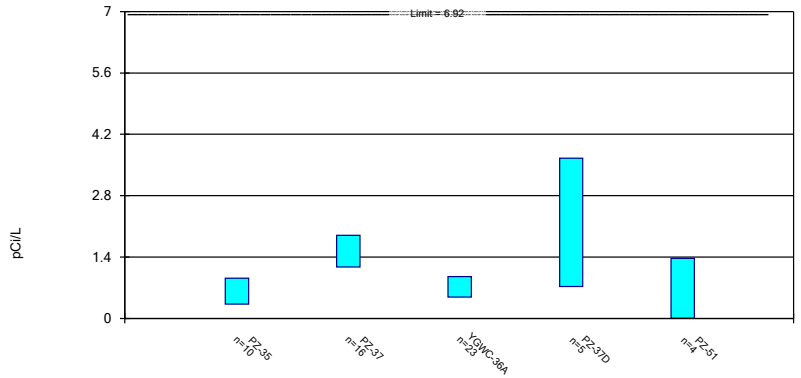


Constituent: Combined Radium 226 + 228 Analysis Run 10/18/2023 9:28 AM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.13 Software licensed to . UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 10/18/2023 9:28 AM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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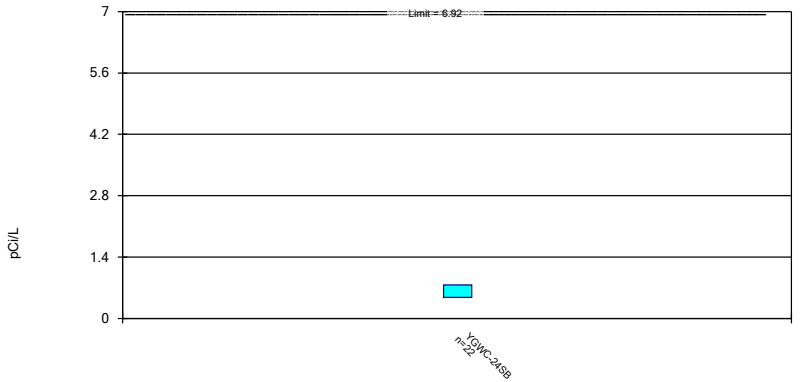
Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 10/18/2023 9:28 AM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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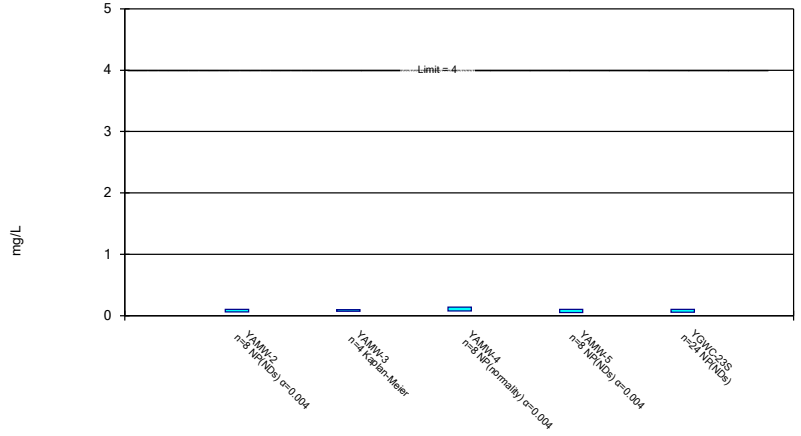
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 10/18/2023 9:28 AM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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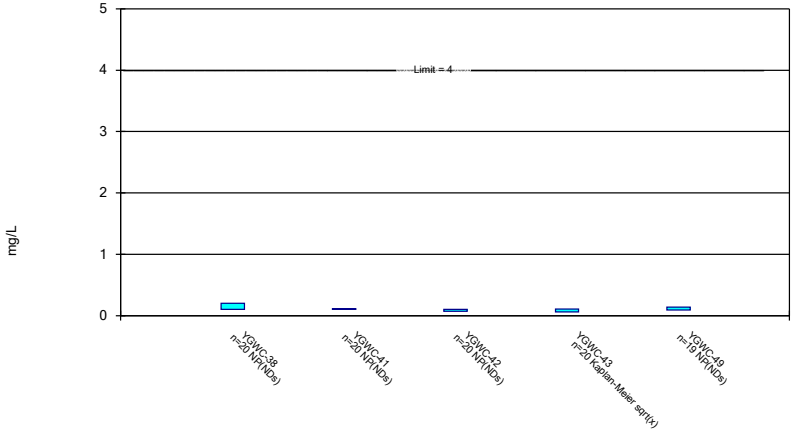
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 10/18/2023 9:28 AM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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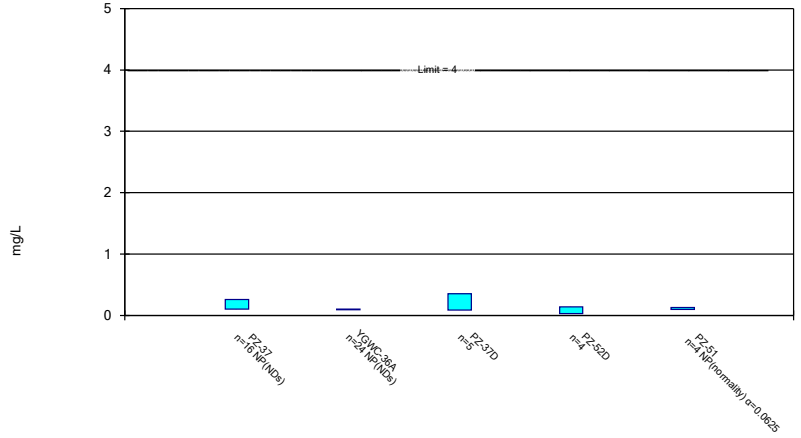
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 10/18/2023 9:28 AM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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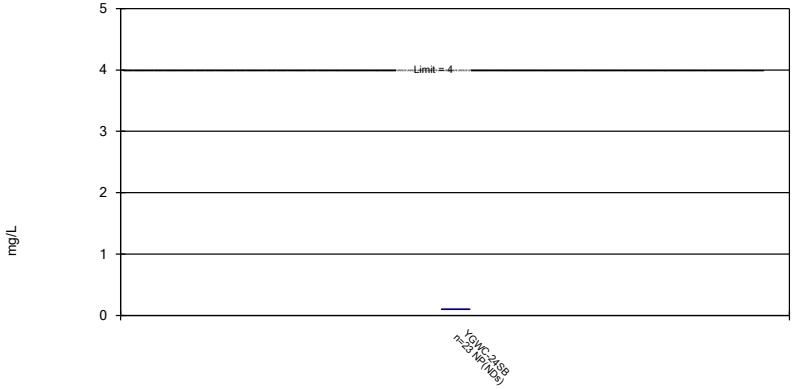
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Fluoride Analysis Run 10/18/2023 9:28 AM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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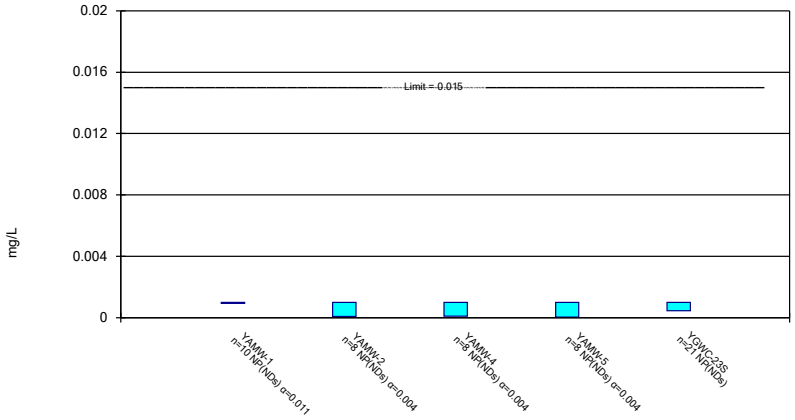
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Lead Analysis Run 10/18/2023 9:28 AM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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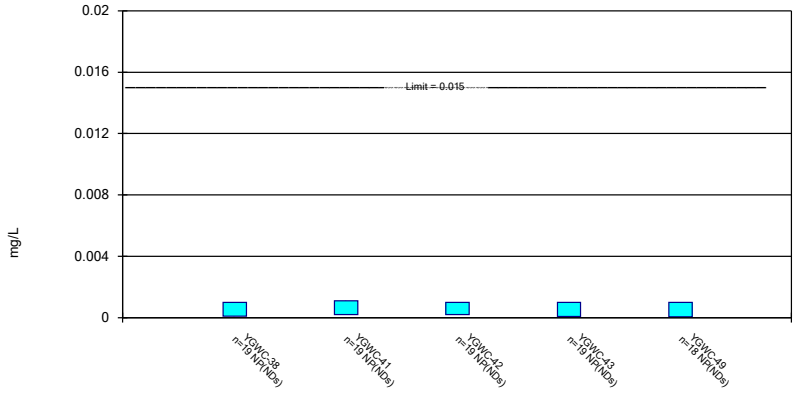
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 10/18/2023 9:28 AM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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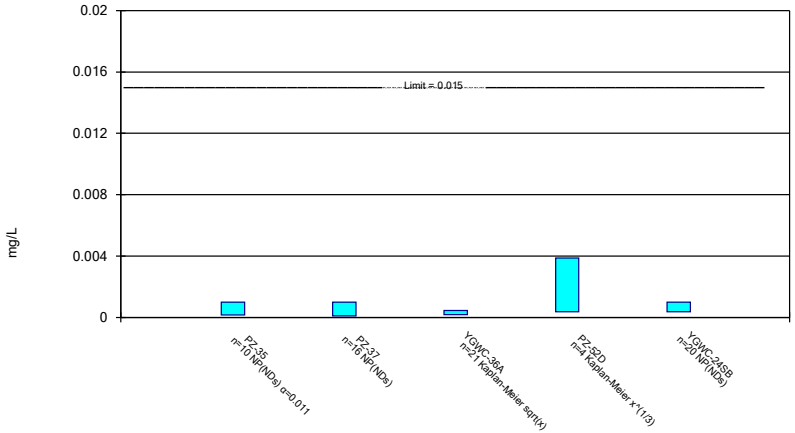
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 10/18/2023 9:28 AM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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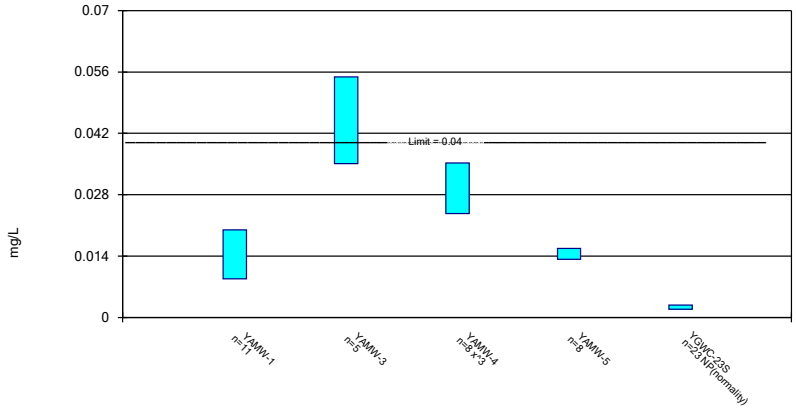
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 10/18/2023 9:28 AM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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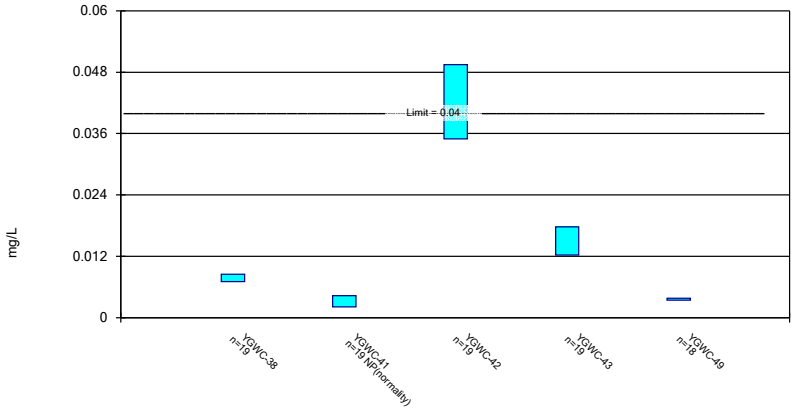
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 10/18/2023 9:28 AM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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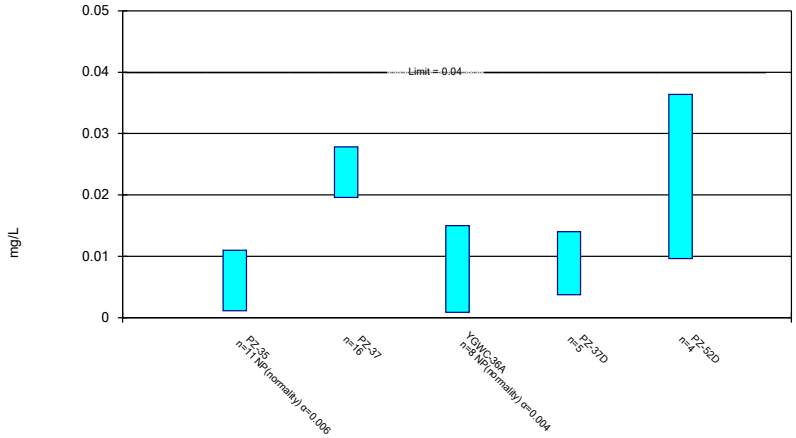
Parametric and Non-Parametric (NP) Confidence Interval

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 10/18/2023 9:28 AM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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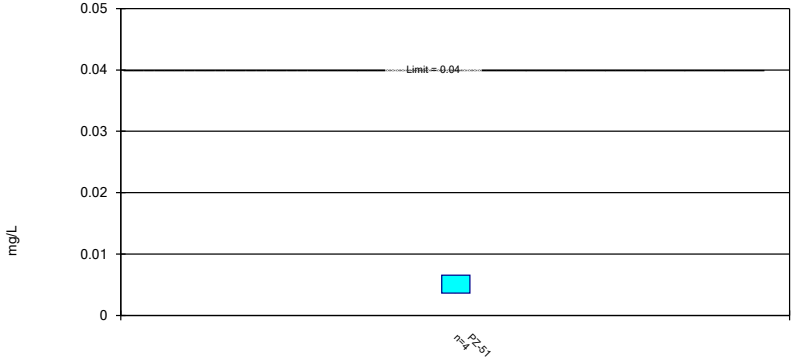
Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 10/18/2023 9:28 AM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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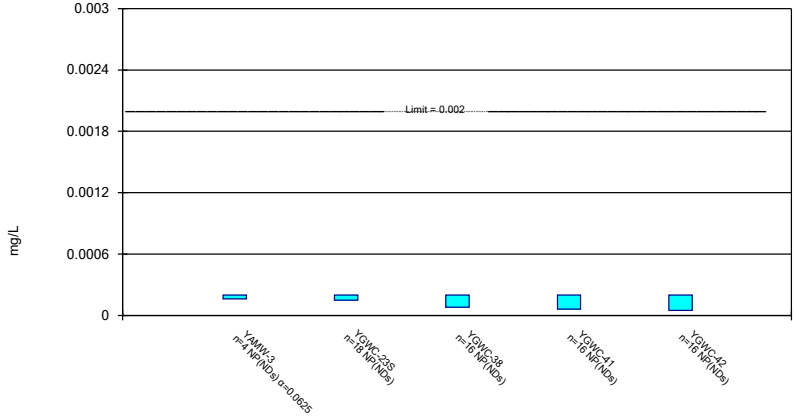
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Mercury Analysis Run 10/18/2023 9:28 AM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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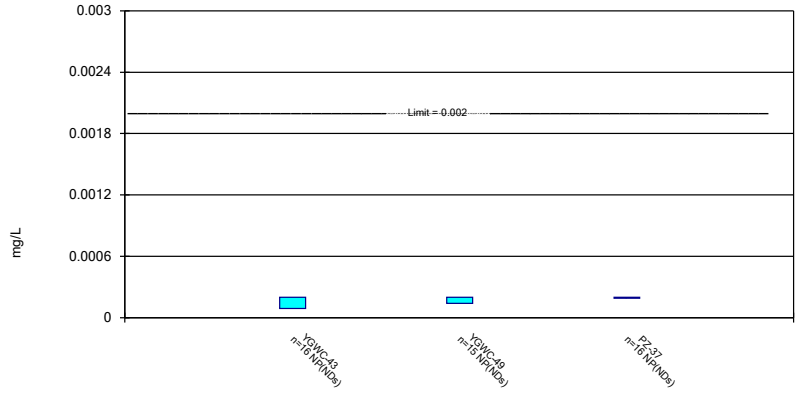
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 10/18/2023 9:28 AM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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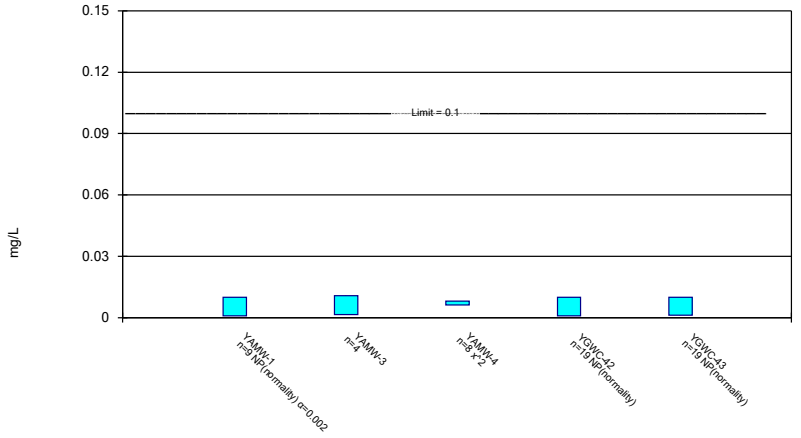
Parametric and Non-Parametric (NP) Confidence Interval

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 10/18/2023 9:28 AM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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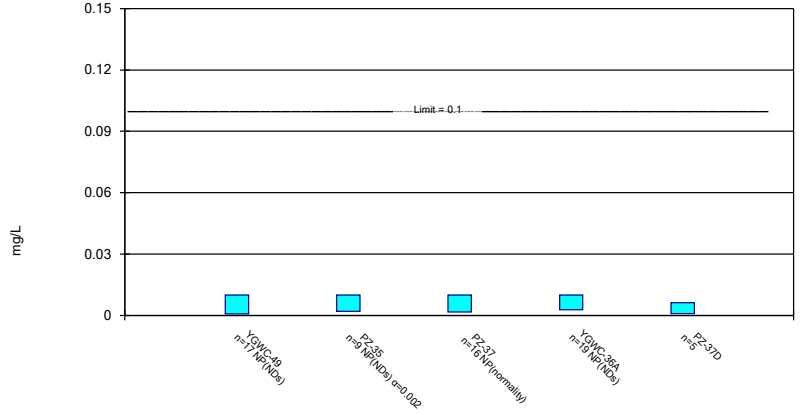
Parametric and Non-Parametric (NP) Confidence Interval

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 10/18/2023 9:28 AM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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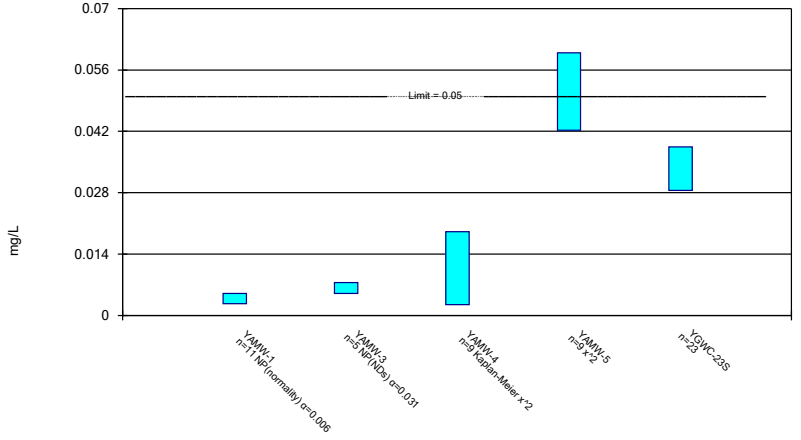
Parametric and Non-Parametric (NP) Confidence Interval

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 10/18/2023 9:28 AM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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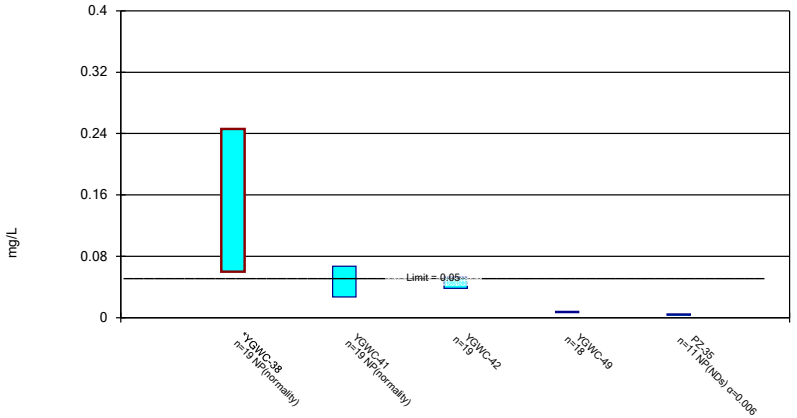
Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 10/18/2023 9:28 AM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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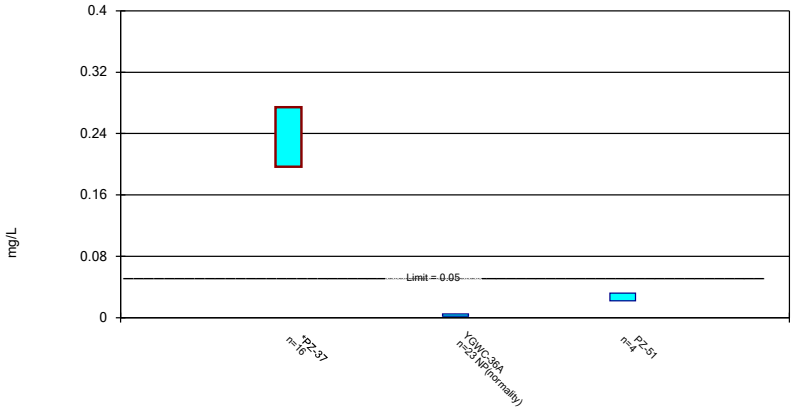
Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 10/18/2023 9:28 AM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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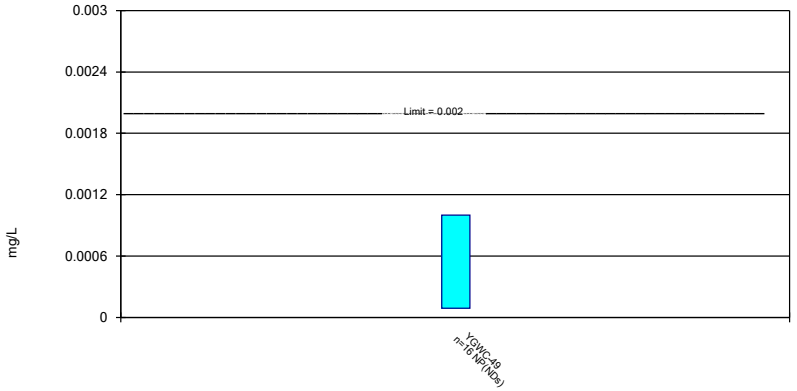
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 10/18/2023 9:28 AM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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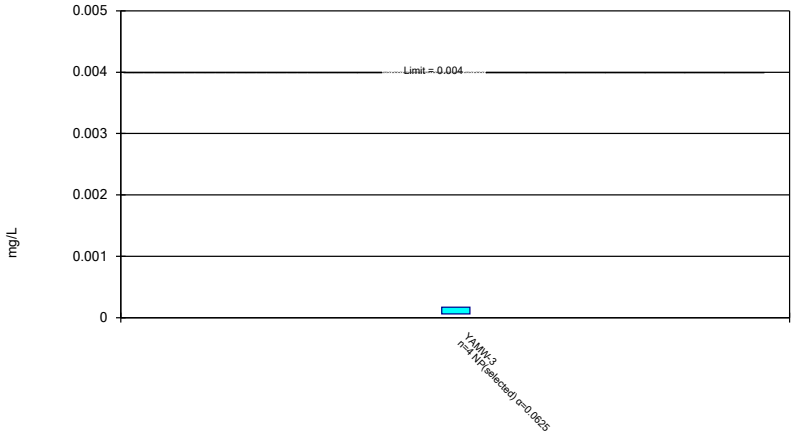
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Beryllium Analysis Run 10/18/2023 9:29 AM View: Appendix IV Nonparametric

Plant Yates Data: Plant Yates AMA-R6

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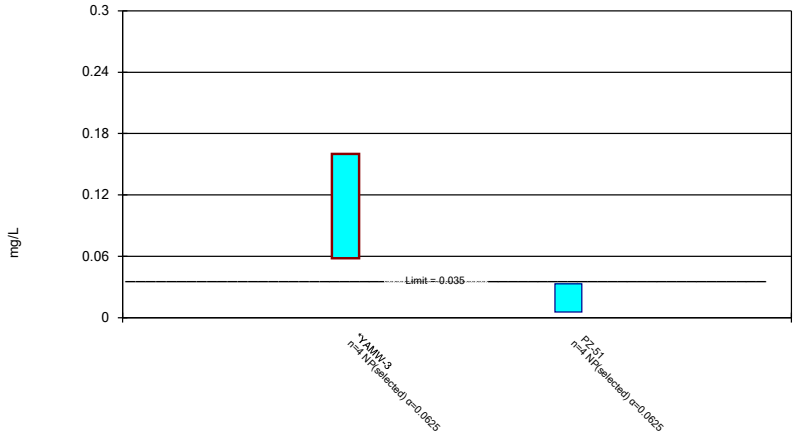
Non-Parametric Confidence Interval

Compliance limit is exceeded.*



Normality testing disabled.

Constituent: Cobalt Analysis Run 10/18/2023 9:29 AM View: Appendix IV Nonparametric

Plant Yates Data: Plant Yates AMA-R6

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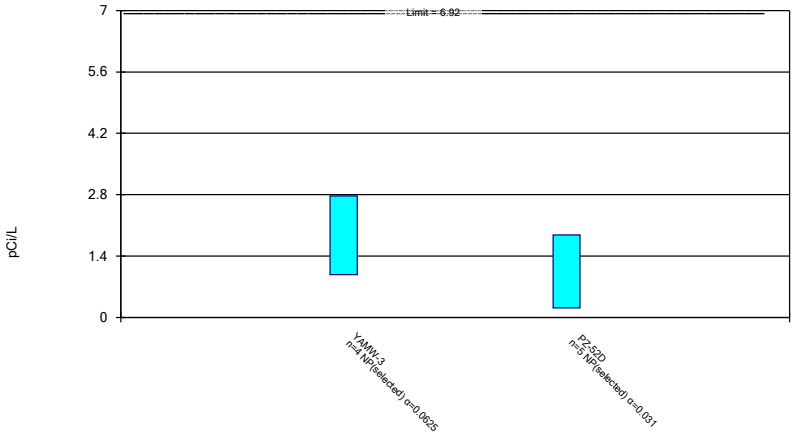
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Combined Radium 226 + 228 Analysis Run 10/18/2023 9:29 AM View: Appendix IV Nonpara

Plant Yates Data: Plant Yates AMA-R6

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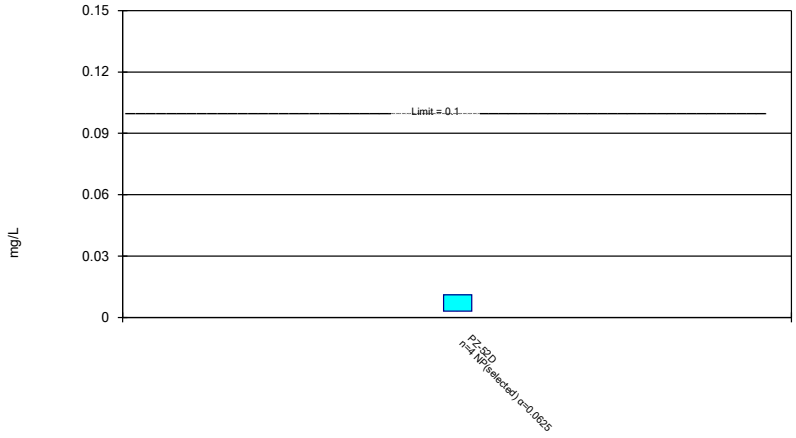
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Molybdenum Analysis Run 10/18/2023 9:29 AM View: Appendix IV Nonparametric

Plant Yates Data: Plant Yates AMA-R6

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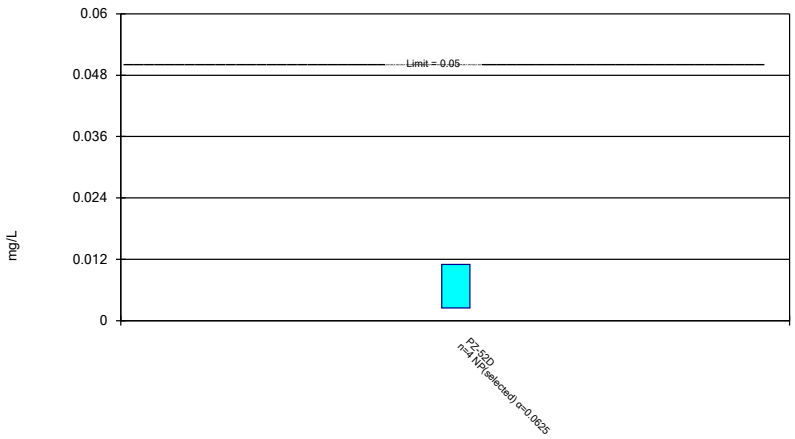
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Selenium Analysis Run 10/18/2023 9:29 AM View: Appendix IV Nonparametric

Plant Yates Data: Plant Yates AMA-R6

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 10/18/2023 9:30 AM 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
Mean	0.004737	0.002171	0.002666	0.00265	0.002503
Std. Dev.	0.007173	0.001153	0.000944	0.0008818	0.0009811
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 10/18/2023 9:30 AM 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
Mean	0.002911	0.002863	0.002828	0.002757	0.002739
Std. Dev.	0.0003771	0.0005822	0.0006355	0.0007133	0.0008254
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 10/18/2023 9:30 AM 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			
Mean	0.002604	0.003857	0.0027	0.002895
Std. Dev.	0.0008732	0.005676	0.0006708	0.0004696
Upper Lim.	0.003	0.0041	0.003	0.003

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 10/18/2023 9:30 AM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	PZ-37	YGWC-36A	PZ-37D	YGWC-24SB
Lower Lim.	0.0014	0.0015	0.0015	0.0009

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 10/18/2023 9:30 AM 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
Mean	0.004609	0.0047	0.003511	0.003581	0.004726
Std. Dev.	0.0009038	0.0006	0.00183	0.001722	0.0009284
Upper Lim.	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0034	0.0038	0.00079	0.00095	0.0025

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 10/18/2023 9:30 AM 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
Mean	0.002182	0.003164	0.002604	0.004089	0.004303
Std. Dev.	0.001788	0.002055	0.001414	0.001662	0.001604
Upper Lim.	0.005	0.005	0.00228	0.005	0.005
Lower Lim.	0.00072	0.00072	0.001457	0.0022	0.001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 10/18/2023 9:30 AM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-52D	PZ-51
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		
2/10/2022	0.0018 (J)	0.0017 (J)			0.0013 (J)
2/11/2022			0.0014 (J)	0.0014 (J)	
8/31/2022	<0.005				
9/1/2022		<0.005	<0.005	<0.005	<0.005
2/8/2023		<0.005		0.0032 (J)	
2/9/2023	0.0028 (J)		0.0047 (J)		<0.005
8/16/2023	<0.005		<0.005		<0.005
8/17/2023		<0.005		<0.005	
Mean	0.00375	0.002852	0.00408	0.00365	0.004075
Std. Dev.	0.001811	0.001973	0.00176	0.001723	0.00185
Upper Lim.	0.005	0.005	0.005	0.004343	0.005
Lower Lim.	0.00096	0.00094	0.0047	0.0002567	0.0013

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 10/18/2023 9:30 AM 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	<0.005
7/7/2017	<0.005
3/30/2018	<0.005
6/12/2018	<0.005
9/26/2018	<0.005
3/5/2019	<0.005
4/4/2019	<0.005
9/26/2019	<0.005
3/26/2020	0.0015 (J)
9/23/2020	<0.005
2/9/2021	<0.005
3/3/2021	<0.005
9/1/2021	<0.005
2/10/2022	0.0024 (J)
2/10/2023	0.0035 (J)
8/16/2023	<0.005
Mean	0.004655
Std. Dev.	0.000942
Upper Lim.	0.005
Lower Lim.	0.0035

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/18/2023 9:30 AM 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			
Mean	0.05918	0.008163	0.03325	0.007925	0.03963
Std. Dev.	0.0236	0.001066	0.009979	0.007842	0.007539
Upper Lim.	0.07885	0.009293	0.05591	0.021	0.057
Lower Lim.	0.03952	0.007032	0.01059	0.003	0.034

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/18/2023 9:30 AM 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 10/18/2023 9:30 AM 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
Mean	0.04053	0.01961	0.02401	0.03545	0.02642
Std. Dev.	0.01341	0.00425	0.006357	0.01115	0.01159
Upper Lim.	0.04754	0.02175	0.02773	0.04124	0.0332
Lower Lim.	0.03351	0.01691	0.02029	0.02866	0.01963

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/18/2023 9:30 AM 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		
Mean	0.07162	0.07191	0.04213	0.04833	0.02
Std. Dev.	0.008325	0.04761	0.01406	0.03461	0.007874
Upper Lim.	0.07665	0.1054	0.05128	0.0484	0.03319
Lower Lim.	0.06658	0.03557	0.03299	0.0349	0.006806

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/18/2023 9:30 AM 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		
Mean	0.0175	0.01475	0.02166
Std. Dev.	0.009815	0.001708	0.004078
Upper Lim.	0.0426	0.01863	0.025
Lower Lim.	0.002652	0.01087	0.019

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 10/18/2023 9:30 AM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-5	YGWC-23S	YGWC-38
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	
10/12/2017					0.0057
11/20/2017					0.0053
1/12/2018					0.0053
2/20/2018					0.0053
3/30/2018				<0.0005	
4/3/2018					0.0056
6/12/2018				8.1E-05 (J)	
6/28/2018					0.0059
8/7/2018					0.0058
9/24/2018					0.0051
9/27/2018				9E-05 (J)	
10/16/2018	<0.0005				
3/6/2019				6.6E-05 (J)	
4/4/2019				7.2E-05 (J)	
8/22/2019					0.0049
9/26/2019	<0.0005				
9/27/2019				7.7E-05 (J)	
10/9/2019					0.0046
1/15/2020			0.00017 (J)		
3/25/2020	0.00037 (J)				0.0038
3/26/2020				9E-05 (J)	
9/23/2020		<0.0005			
9/24/2020	5.8E-05 (J)		8.6E-05 (J)	0.00015 (J)	
9/25/2020					0.0033
2/9/2021	<0.0005	5.1E-05 (J)	0.00015 (J)	0.00015 (J)	0.0029 (J)
3/3/2021	<0.0005	<0.0005			
3/4/2021			0.00013 (J)	0.00013 (J)	0.0029
8/25/2021				0.00019 (J)	
8/26/2021			0.00012 (J)		0.0028
9/1/2021	9.5E-05 (J)	6.5E-05 (J)			
2/10/2022	0.00016 (J)	7.4E-05 (J)	0.00013 (J)	0.00023 (J)	0.0027
8/31/2022	0.00011 (J)				
9/1/2022		5.7E-05 (J)	0.00011 (J)	0.00019 (J)	0.0022
2/8/2023		5.5E-05 (J)	0.00013 (J)	0.00022 (J)	0.002
2/9/2023	0.00012 (J)				
8/16/2023	0.00028 (J)		0.00011 (J)	0.0002 (J)	0.0018
8/17/2023		6.9E-05 (J)			
Mean	0.0002903	0.0001714	0.0001262	0.0002098	0.0041
Std. Dev.	0.0001879	0.000203	2.426E-05	0.0001636	0.001448
Upper Lim.	0.0002411	0.0005	0.0001496	0.00023	0.0056
Lower Lim.	8.725E-05	5.1E-05	0.0001028	9E-05	0.0027

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 10/18/2023 9:30 AM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YGWC-41	YGWC-42	YGWC-43	YGWC-49	PZ-35
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	0.0036	<0.0005	0.0001 (J)		
11/21/2017	0.0036				
1/11/2018	0.0037				
2/19/2018	0.0039				
4/3/2018	0.0037				
4/4/2018		<0.0005	<0.0005	<0.0005	
6/27/2018	0.0038				
8/7/2018	0.0037				
8/30/2018					0.00052 (J)
9/20/2018		<0.0005	0.00029 (J)	0.00011 (J)	
9/24/2018	0.0032				
10/16/2018					0.00036 (J)
8/21/2019			0.0003 (J)		
8/22/2019	0.0026 (J)	<0.0005			
9/26/2019				0.00013 (J)	<0.0005
10/9/2019	0.0026 (J)	<0.0005	0.00034 (J)		
3/25/2020	0.0026 (J)	<0.0005	0.00034 (J)	0.00013 (J)	<0.0005
9/24/2020		6.7E-05 (J)		0.00013 (J)	0.00033 (J)
9/25/2020	0.002 (J)		0.00054 (J)		
2/9/2021			0.00053 (J)	0.00013 (J)	
2/10/2021	0.0015 (J)	5.7E-05 (J)			0.00025 (J)
3/4/2021	0.0015	<0.0005	0.00056	0.0001 (J)	0.00025 (J)
8/25/2021		<0.0005			
8/26/2021	0.0012				
9/1/2021				0.00012 (J)	0.00045 (J)
9/27/2021			0.00015 (J)		
2/8/2022	0.0016		0.00037 (J)	0.00015 (J)	
2/10/2022		6.1E-05 (J)			0.00055
8/31/2022				0.00017 (J)	0.00061
9/1/2022	0.0013	<0.0005	0.00033 (J)		
2/8/2023	0.0013	6.2E-05 (J)	0.00036 (J)		
2/9/2023				0.00012 (J)	0.0008
8/16/2023	0.0012	5.7E-05 (J)	0.00034 (J)	0.00011 (J)	0.0011
Mean	0.002558	0.0003202	0.0003974	0.000125	0.0005183
Std. Dev.	0.001058	0.0002169	0.0001322	3.698E-05	0.0002406
Upper Lim.	0.0037	0.0005	0.00053	0.00015	0.0006805
Lower Lim.	0.0013	6.2E-05	0.0003	0.0001	0.0002988

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 10/18/2023 9:30 AM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	PZ-37	YGWC-36A	PZ-52D	PZ-51	YGWC-24SB
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)				
9/24/2018	0.00029 (J)				
9/26/2018		0.00032 (J)			0.00014 (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		0.00029 (J)			0.00014 (J)
3/25/2020		0.00022 (J)			
3/26/2020					0.00016 (J)
9/23/2020					6.1E-05 (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		9.9E-05 (J)			
3/3/2021					9.9E-05 (J)
3/4/2021	0.00017 (J)	0.00016 (J)			
8/25/2021	0.00059				
9/1/2021					0.00014 (J)
9/3/2021		0.00035 (J)			
2/10/2022	0.001			0.0033	0.00016 (J)
2/11/2022		0.00043 (J)	5.9E-05 (J)		
9/1/2022	0.0011	0.00053	<0.0005	0.0031	
2/8/2023	0.0011		<0.0005		
2/9/2023		0.00066		0.0024	
2/10/2023					5.4E-05 (J)
8/16/2023		0.0011		0.0028	9.6E-05 (J)
8/17/2023	0.0012		8.6E-05 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 10/18/2023 9:30 AM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	PZ-37	YGWC-36A	PZ-52D	PZ-51	YGWC-24SB
Mean	0.0005113	0.0003221	0.0002863	0.0029	0.0001345
Std. Dev.	0.0003654	0.0002157	0.0002471	0.0003916	5.533E-05
Upper Lim.	0.001	0.0003979	0.0001093	0.003789	0.000159
Lower Lim.	0.00025	0.0002085	4.644E-05	0.002011	0.000103

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 10/18/2023 9:30 AM 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			
Mean	0.0002918	0.0004563	0.000495	0.0002438	0.0004813
Std. Dev.	0.0001675	0.0001237	1E-05	9.054E-05	8.966E-05
Upper Lim.	0.0005	0.0005	0.0005	0.00046	0.0005
Lower Lim.	0.00014	0.00015	0.00048	0.00018	7E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 10/18/2023 9:30 AM 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)
Mean	0.001972	0.0003242	0.00039	0.0004761	0.0003836
Std. Dev.	0.0008396	0.000159	0.0001624	0.0001014	0.0001647
Upper Lim.	0.0029	0.0005	0.0005	0.0005	0.0005
Lower Lim.	0.0011	0.00017	0.0002	7E-05	0.00016

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 10/18/2023 9:30 AM 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		
Mean	0.0005988	0.0004525	0.001775
Std. Dev.	0.0002736	0.0001344	9.574E-05
Upper Lim.	0.0007767	0.0005	0.001992
Lower Lim.	0.0004208	0.00012	0.001558

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 10/18/2023 9:30 AM 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			
Mean	0.002709	0.003251	0.004025	0.004446	0.004575
Std. Dev.	0.002183	0.001985	0.00195	0.001566	0.001202
Upper Lim.	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.00058	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 10/18/2023 9:30 AM 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
Mean	0.003555	0.004534	0.004757	0.004333	0.004083
Std. Dev.	0.00196	0.001395	0.001058	0.00159	0.001826
Upper Lim.	0.005	0.005	0.005	0.005	0.005

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 10/18/2023 9:30 AM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YGWC-23S	YGWC-38	YGWC-41	YGWC-42	YGWC-43
Lower Lim.	0.00086	0.00065	0.00039	0.0013	0.00074

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 10/18/2023 9:30 AM 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
Mean	0.001959	0.002746	0.00435	0.004288	0.004025
Std. Dev.	0.0008193	0.002162	0.001408	0.001508	0.00195
Upper Lim.	0.002	0.005	0.005	0.005	0.005
Lower Lim.	0.0016	0.0006	0.0019	0.0035	0.0011

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 10/18/2023 9:30 AM 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
Mean	0.004341
Std. Dev.	0.001516
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 10/18/2023 9:30 AM 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			
Mean	0.01327	0.002546	0.0008537	0.004471	0.004073
Std. Dev.	0.01026	0.002323	0.000697	0.001496	0.001851
Upper Lim.	0.02092	0.004809	0.0025	0.005	0.005
Lower Lim.	0.005216	0.0005225	0.00041	0.00077	0.0011

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 10/18/2023 9:30 AM 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)
Mean	0.0019	0.002758	0.004028	0.005082	0.007038
Std. Dev.	0.0004137	0.001919	0.001872	0.0002714	0.004941
Upper Lim.	0.00212	0.005	0.005	0.005	0.009365
Lower Lim.	0.001655	0.0005	0.0008	0.005	0.003532

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 10/18/2023 9:30 AM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YGWC-36A	PZ-52D
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	
2/11/2022	<0.005	0.0011 (J)
9/1/2022	<0.005	0.0016 (J)
2/8/2023		0.0026 (J)
2/9/2023	<0.005	
8/16/2023	<0.005	
8/17/2023		0.0031 (J)
Mean	0.00403	0.0021
Std. Dev.	0.001883	0.0009129
Upper Lim.	0.005	0.004173
Lower Lim.	0.00086	2.746E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/18/2023 9:30 AM 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)			
Mean	0.5091	0.4552	0.5976	0.9179	0.5861
Std. Dev.	0.1875	0.356	0.3878	0.3197	0.3682
Upper Lim.	0.6764	0.8326	1.009	1.257	0.7786
Lower Lim.	0.3418	0.07787	0.1866	0.579	0.3935

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/18/2023 9:30 AM 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)
Mean	0.8518	0.925	1.753	2.905	0.7836
Std. Dev.	0.4826	0.5566	1.181	1.779	0.4248
Upper Lim.	1.134	1.251	2.282	3.947	1.041
Lower Lim.	0.5692	0.5991	0.9922	1.864	0.5266

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/18/2023 9:30 AM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-51
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)		
2/28/2017			1.34 (U)		
5/9/2017			0.309 (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)		
4/3/2018		1.47			
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)		
10/16/2018	0.363 (U)				
3/6/2019			0.919 (U)		
4/4/2019			1.05 (U)		
9/26/2019			0.979 (U)		
3/25/2020	0.197 (U)		1.22 (U)		
9/24/2020	1.07 (U)				
9/25/2020		1.68 (U)			
10/7/2020			1.58		
2/9/2021		1.52			
2/10/2021	0.546 (U)		0.466 (U)		
3/4/2021	0.397 (U)	1.49	0.0671 (U)		
8/25/2021		1.41			
9/1/2021	0.696 (U)				
9/3/2021			0.622 (U)	3.18	
2/10/2022	1.25 (U)	0.81 (U)			0.964 (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	0.389 (U)
2/8/2023		0.742 (U)		2.37	
2/9/2023	0.718 (U)		0.326 (U)		0.467 (U)
8/16/2023	0.643 (U)		0.319 (U)	2.05	0.924 (U)
8/17/2023		1.9			
Mean	0.6206	1.535	0.7226	2.191	0.686
Std. Dev.	0.3337	0.5573	0.4475	0.8725	0.3001
Upper Lim.	0.9183	1.898	0.9566	3.653	1.367
Lower Lim.	0.3229	1.173	0.4886	0.7289	0.004771

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/18/2023 9:30 AM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YGWC-24SB
6/8/2016	1.06
8/1/2016	0.467 (U)
9/20/2016	0.853 (U)
11/8/2016	0.433 (U)
1/17/2017	0.0759 (U)
3/8/2017	0.479 (U)
5/2/2017	0.506 (U)
7/7/2017	0.713 (U)
3/30/2018	0.409 (U)
6/12/2018	0.728 (U)
9/26/2018	0.981
3/5/2019	0.837 (U)
4/9/2019	0.502 (U)
9/26/2019	0.964 (U)
3/26/2020	0.511 (U)
9/23/2020	0.786 (U)
2/9/2021	0.678 (U)
3/3/2021	0.415 (U)
9/1/2021	0.444 (U)
2/10/2022	0.846 (U)
2/10/2023	0.137 (U)
8/16/2023	0.889 (U)
Mean	0.6234
Std. Dev.	0.2657
Upper Lim.	0.766
Lower Lim.	0.4808

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 10/18/2023 9:30 AM 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				
Mean	0.0905	0.08775	0.1046	0.08813	0.094
Std. Dev.	0.0176	0.009708	0.02377	0.02203	0.01966
Upper Lim.	0.1	0.09558	0.14	0.1	0.1
Lower Lim.	0.061	0.07175	0.078	0.05	0.057

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 10/18/2023 9:30 AM 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
Mean	0.1462	0.1005	0.0862	0.1017	0.09947
Std. Dev.	0.1047	0.002236	0.02426	0.04846	0.02297
Upper Lim.	0.2	0.11	0.1	0.1046	0.14

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 10/18/2023 9:30 AM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-42	YGWC-43	YGWC-49
Lower Lim.	0.1	0.1	0.07	0.0606	0.09

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 10/18/2023 9:30 AM 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)	
Mean	0.1531	0.094	0.22	0.08475	0.1143
Std. Dev.	0.1045	0.02934	0.07874	0.02416	0.01823
Upper Lim.	0.26	0.1	0.3519	0.1396	0.13
Lower Lim.	0.1	0.094	0.08806	0.0299	0.097

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 10/18/2023 9:30 AM 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
Mean	0.09487
Std. Dev.	0.01691
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 10/18/2023 9:30 AM 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			
Mean	0.000919	0.0007738	0.0007395	0.000653	0.0008489
Std. Dev.	0.0002561	0.000419	0.0003788	0.0004793	0.000326
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 10/18/2023 9:30 AM 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
Mean	0.0008579	0.0008188	0.0008101	0.0009029	0.0009477
Std. Dev.	0.0003372	0.0003753	0.000379	0.0002909	0.0002218
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

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 10/18/2023 9:30 AM 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	
Mean	0.0008237	0.0007296	0.0006157	0.001625	0.0009207

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 10/18/2023 9:30 AM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-52D	YGWC-24SB
Std. Dev.	0.000372	0.0004154	0.000428	0.001001	0.0002493
Upper Lim.	0.001	0.001	0.0004543	0.003871	0.001
Lower Lim.	0.00015	0.0001	0.0001726	0.0003706	0.00036

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 10/18/2023 9:30 AM 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)				
12/9/2021		0.042			
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)
Mean	0.01439	0.045	0.02938	0.0145	0.002917
Std. Dev.	0.006665	0.005916	0.006632	0.001195	0.002693
Upper Lim.	0.01994	0.05491	0.03524	0.01577	0.0028
Lower Lim.	0.008837	0.03509	0.02366	0.01323	0.0019

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 10/18/2023 9:30 AM View: Appendix IV

Plant Yates 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)
Mean	0.007763	0.003732	0.04223	0.01497	0.0036
Std. Dev.	0.001269	0.002889	0.01238	0.004714	0.0003049
Upper Lim.	0.008506	0.0043	0.04948	0.01773	0.003784
Lower Lim.	0.00702	0.0021	0.03498	0.01221	0.003416

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 10/18/2023 9:30 AM View: Appendix IV

Plant Yates 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)
Mean	0.003864	0.02373	0.002822	0.00888	0.023
Std. Dev.	0.004642	0.006337	0.004925	0.003061	0.005888
Upper Lim.	0.011	0.02785	0.015	0.01401	0.03637
Lower Lim.	0.0011	0.01961	0.00086	0.003751	0.009633

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 10/18/2023 9:30 AM View: Appendix IV

Plant Yates 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)
Mean	0.0051
Std. Dev.	0.0006481
Upper Lim.	0.006571
Lower Lim.	0.003629

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 10/18/2023 9:30 AM 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
Mean	0.00019	0.0001916	0.0001823	0.0001912	0.0001905
Std. Dev.	2E-05	2.614E-05	4.896E-05	3.5E-05	3.8E-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 10/18/2023 9:30 AM 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
Mean	0.0001839	0.0001867	0.0001906
Std. Dev.	4.46E-05	3.806E-05	3.492E-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 10/18/2023 9:30 AM 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)
Mean	0.005777	0.0061	0.007075	0.004086	0.004874
Std. Dev.	0.004114	0.002005	0.000978	0.004177	0.004171
Upper Lim.	0.01	0.01065	0.008014	0.01	0.01
Lower Lim.	0.00089	0.001548	0.006129	0.00081	0.0012

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 10/18/2023 9:30 AM 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		
Mean	0.009453	0.0091	0.005881	0.007842	0.00356
Std. Dev.	0.002256	0.0027	0.004264	0.003449	0.001592
Upper Lim.	0.01	0.01	0.01	0.01	0.006227
Lower Lim.	0.0007	0.0019	0.0016	0.0027	0.0008931

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 10/18/2023 9:30 AM 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
Mean	0.004255	0.0055	0.01387	0.05089	0.03347
Std. Dev.	0.00111	0.001118	0.007743	0.01068	0.009484
Upper Lim.	0.005	0.0075	0.01909	0.05996	0.03843
Lower Lim.	0.0027	0.005	0.002432	0.04227	0.0285

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 10/18/2023 9:30 AM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-42	YGWC-49	PZ-35
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	0.265	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				
4/3/2018	0.23	0.067			
4/4/2018			0.055	<0.01	
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			
10/16/2018					<0.005
8/22/2019	0.14	0.058	0.047		
9/26/2019				0.0077 (J)	<0.005
10/9/2019	0.12	0.052	0.042		
3/25/2020	0.099	0.057	0.046	0.0085 (J)	<0.005
9/24/2020			0.046	0.0091 (J)	<0.005
9/25/2020	0.076	0.046			
2/9/2021	0.073			0.0079 (J)	
2/10/2021		0.033	0.043		<0.005
3/4/2021	0.076	0.037	0.048	0.0058	<0.005
8/25/2021			0.043		
8/26/2021	0.06	0.027			
9/1/2021				0.0066	0.0016 (J)
2/8/2022		0.031		0.0075	
2/10/2022	0.064		0.044		0.003 (J)
8/31/2022				0.0062	0.0033 (J)
9/1/2022	0.055	0.027	0.035		
2/8/2023	0.056	0.027	0.041		
2/9/2023				0.0054	0.0041 (J)
8/16/2023	0.053	0.023	0.019	0.0062	0.0039 (J)
Mean	0.1445	0.04741	0.04558	0.007433	0.004173
Std. Dev.	0.08277	0.01831	0.01261	0.001477	0.001138
Upper Lim.	0.246	0.067	0.05297	0.008327	0.005
Lower Lim.	0.06	0.027	0.0382	0.00654	0.003

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 10/18/2023 9:30 AM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	PZ-37	YGWC-36A	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)	
3/6/2019		0.0033 (J)	
4/4/2019		0.0029 (J)	
9/26/2019		0.0019 (J)	
3/25/2020		0.0024 (J)	
9/25/2020	0.32		
10/7/2020		<0.005	
2/9/2021	0.28		
2/10/2021		<0.005	
3/4/2021	0.27	<0.005	
8/25/2021	0.2		
9/3/2021		<0.005	
2/10/2022	0.2		0.029
2/11/2022		<0.005	
9/1/2022	0.17	<0.005	0.026
2/8/2023	0.16		
2/9/2023		0.0027 (J)	0.028
8/16/2023		0.0032 (J)	0.024
8/17/2023	0.15		
Mean	0.2358	0.003465	0.02675
Std. Dev.	0.0596	0.001372	0.002217
Upper Lim.	0.2745	0.005	0.03178
Lower Lim.	0.197	0.002	0.02172

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 10/18/2023 9:30 AM 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
Mean	0.0009431
Std. Dev.	0.0002275
Upper Lim.	0.001
Lower Lim.	9E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 10/18/2023 9:30 AM View: Appendix IV Nonparametric
Plant Yates Data: Plant Yates AMA-R6

	YAMW-3
2/10/2022	7.8E-05 (J)
9/1/2022	0.00011 (J)
2/9/2023	6.2E-05 (J)
8/16/2023	0.00017 (J)
Mean	0.000105
Std. Dev.	4.771E-05
Upper Lim.	0.00017
Lower Lim.	6.2E-05

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 10/18/2023 9:30 AM View: Appendix IV Nonparametric
Plant Yates Data: Plant Yates AMA-R6

	YAMW-3	PZ-51
2/10/2022	0.16	0.033
9/1/2022	0.058	0.018
2/9/2023	0.066	0.0071
8/16/2023	0.14	0.0056
Mean	0.106	0.01593
Std. Dev.	0.05156	0.01265
Upper Lim.	0.16	0.033
Lower Lim.	0.058	0.0056

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/18/2023 9:30 AM View: Appendix IV Nonparametric

Plant Yates Data: Plant Yates AMA-R6

	YAMW-3	PZ-52D
11/4/2021		0.721 (U)
2/10/2022	0.988 (U)	
2/11/2022		1.52
9/1/2022	0.975 (U)	0.225 (U)
2/8/2023		0.218 (U)
2/9/2023	2.19	
8/16/2023	2.77	
8/17/2023		1.88
Mean	1.731	0.9128
Std. Dev.	0.897	0.7578
Upper Lim.	2.77	1.88
Lower Lim.	0.975	0.218

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 10/18/2023 9:30 AM View: Appendix IV Nonparametric
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)
Mean	0.00685
Std. Dev.	0.003553
Upper Lim.	0.011
Lower Lim.	0.003

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 10/18/2023 9:30 AM View: Appendix IV Nonparametric
Plant Yates Data: Plant Yates AMA-R6

	PZ-52D
2/11/2022	0.0025 (J)
9/1/2022	0.0041 (J)
2/8/2023	0.0057
8/17/2023	0.011
Mean	0.005825
Std. Dev.	0.003689
Upper Lim.	0.011
Lower Lim.	0.0025

FIGURE J.

Appendix IV Trend Tests - Confidence Interval Exceedances - Significant Results

Plant Yates Data: Plant Yates AMA-R6 Printed 10/18/2023, 9:39 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Cobalt (mg/L)	**YGWA-39 (bg)**	**-0.0007887**	**-71**	**-62**	**Yes**	**20**	**45**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**YGWA-47 (bg)**	**-0.001062**	**-119**	**-58**	**Yes**	**19**	**5.263**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**YGWA-30I (bg)**	**-0.004294**	**-263**	**-81**	**Yes**	**24**	**0**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	**YGWA-17S (bg)**	**0**	**112**	**76**	**Yes**	**23**	**73.91**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	**YGWC-38**	**-0.04532**	**-156**	**-58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**

Appendix IV Trend Tests - Confidence Interval Exceedances - All Results

Plant Yates Data: Plant Yates AMA-R6 Printed 10/18/2023, 9:39 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Cobalt (mg/L)	YAMW-3	0.002456	0	8	No	4	0	n/a	0.05	NP
Cobalt (mg/L)	YGWA-17S (bg)	0	0	76	No	23	100	n/a	0.05	NP
Cobalt (mg/L)	YGWA-18I (bg)	0	0	81	No	24	100	n/a	0.05	NP
Cobalt (mg/L)	YGWA-18S (bg)	0	64	81	No	24	87.5	n/a	0.05	NP
Cobalt (mg/L)	YGWA-20S (bg)	0	0	81	No	24	100	n/a	0.05	NP
Cobalt (mg/L)	YGWA-21I (bg)	0.0004012	34	81	No	24	4.167	n/a	0.05	NP
Cobalt (mg/L)	**YGWA-39 (bg)**	**-0.0007887**	**-71**	**-62**	**Yes**	**20**	**45**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	YGWA-40 (bg)	0	0	62	No	20	100	n/a	0.05	NP
Cobalt (mg/L)	YGWA-4I (bg)	0	60	81	No	24	58.33	n/a	0.05	NP
Cobalt (mg/L)	YGWA-5D (bg)	0	-13	-81	No	24	91.67	n/a	0.05	NP
Cobalt (mg/L)	YGWA-5I (bg)	0	0	81	No	24	100	n/a	0.05	NP
Cobalt (mg/L)	**YGWA-47 (bg)**	**-0.001062**	**-119**	**-58**	**Yes**	**19**	**5.263**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	GWA-2 (bg)	-0.00005218	-98	-134	No	34	32.35	n/a	0.05	NP
Cobalt (mg/L)	YGWA-14S (bg)	0	0	81	No	24	100	n/a	0.05	NP
Cobalt (mg/L)	YGWA-1D (bg)	0	-62	-81	No	24	83.33	n/a	0.05	NP
Cobalt (mg/L)	YGWA-1I (bg)	0.00003652	25	81	No	24	8.333	n/a	0.05	NP
Cobalt (mg/L)	YGWA-2I (bg)	0	0	81	No	24	100	n/a	0.05	NP
Cobalt (mg/L)	**YGWA-30I (bg)**	**-0.004294**	**-263**	**-81**	**Yes**	**24**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	YGWA-3D (bg)	0	0	81	No	24	100	n/a	0.05	NP
Cobalt (mg/L)	YGWA-3I (bg)	0	0	81	No	24	100	n/a	0.05	NP
Selenium (mg/L)	**YGWA-17S (bg)**	**0**	**112**	**76**	**Yes**	**23**	**73.91**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	YGWA-18I (bg)	0	0	81	No	24	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-18S (bg)	0	0	81	No	24	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-20S (bg)	0	0	81	No	24	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-21I (bg)	0	43	81	No	24	91.67	n/a	0.05	NP
Selenium (mg/L)	YGWA-39 (bg)	0	5	62	No	20	95	n/a	0.05	NP
Selenium (mg/L)	YGWA-40 (bg)	0	-14	-62	No	20	45	n/a	0.05	NP
Selenium (mg/L)	YGWA-4I (bg)	0	9	81	No	24	91.67	n/a	0.05	NP
Selenium (mg/L)	YGWA-5D (bg)	0	0	81	No	24	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-5I (bg)	0	21	81	No	24	95.83	n/a	0.05	NP
Selenium (mg/L)	**YGWC-38**	**-0.04532**	**-156**	**-58**	**Yes**	**19**	**0**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	YGWA-47 (bg)	0	23	41	No	15	86.67	n/a	0.05	NP
Selenium (mg/L)	GWA-2 (bg)	0	0	170	No	40	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-14S (bg)	0	39	71	No	22	68.18	n/a	0.05	NP
Selenium (mg/L)	YGWA-1D (bg)	0	0	71	No	22	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-1I (bg)	0	0	71	No	22	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-2I (bg)	0	0	71	No	22	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-30I (bg)	0	0	71	No	22	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-3D (bg)	0	0	71	No	22	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-3I (bg)	0	0	71	No	22	100	n/a	0.05	NP
Selenium (mg/L)	PZ-37	-0.01569	-44	-45	No	16	0	n/a	0.05	NP

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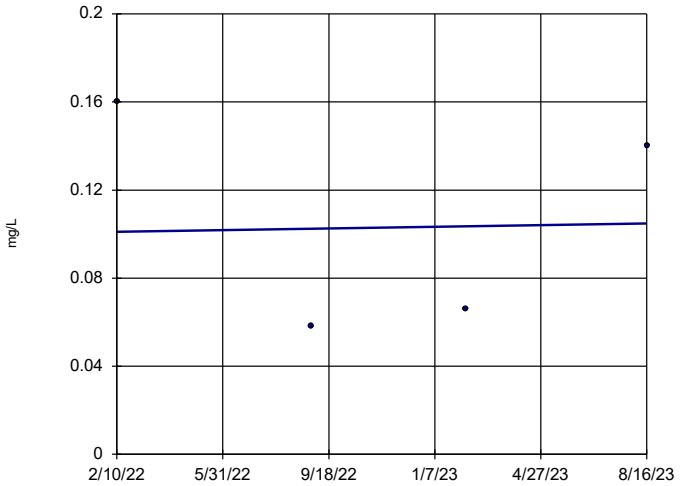
Sen's Slope Estimator

YAMW-3



n = 4

Slope = 0.002456 units per year.

Mann-Kendall statistic = 0
critical = 8

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 10/18/2023 9:37 AM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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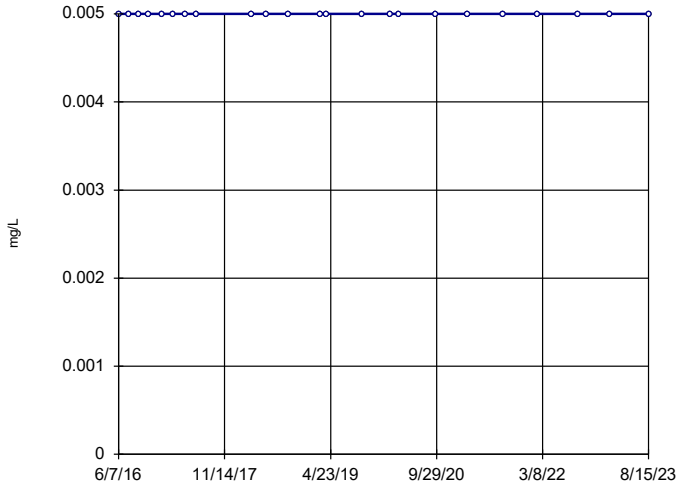
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-17S (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: Cobalt Analysis Run 10/18/2023 9:37 AM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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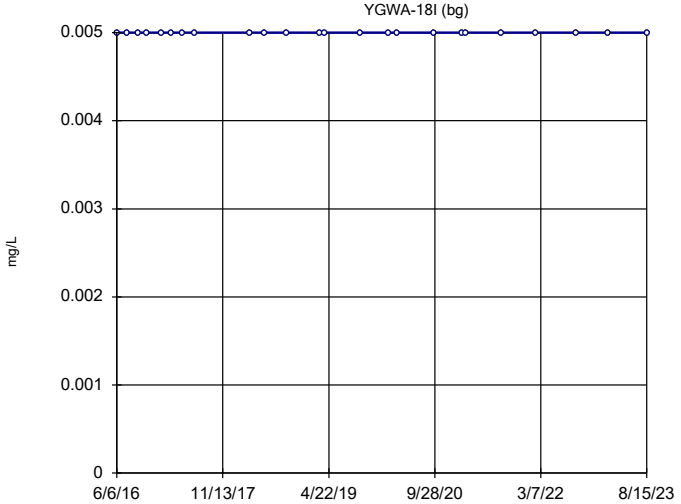
Sen's Slope Estimator

YGWA-18I (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 10/18/2023 9:37 AM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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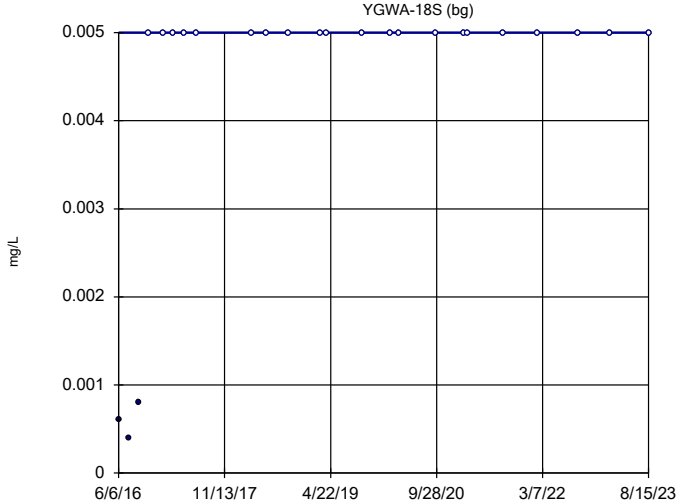
Sen's Slope Estimator

YGWA-18S (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = 64
critical = 81

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 10/18/2023 9:37 AM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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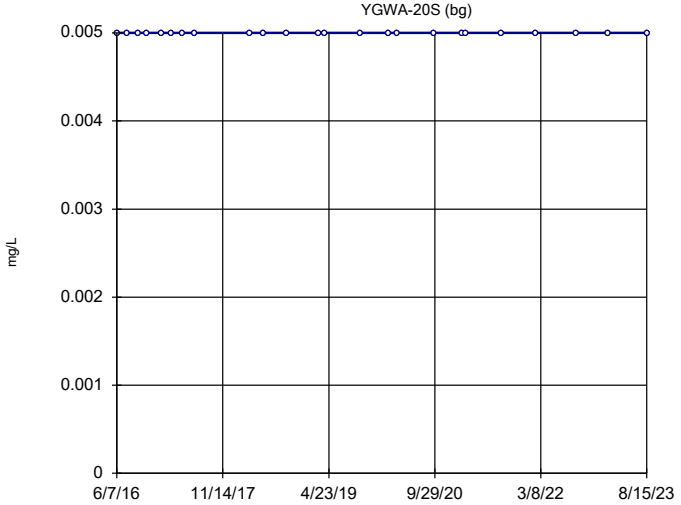
Sen's Slope Estimator

YGWA-20S (bg)



n = 24

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 81

Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cobalt Analysis Run 10/18/2023 9:37 AM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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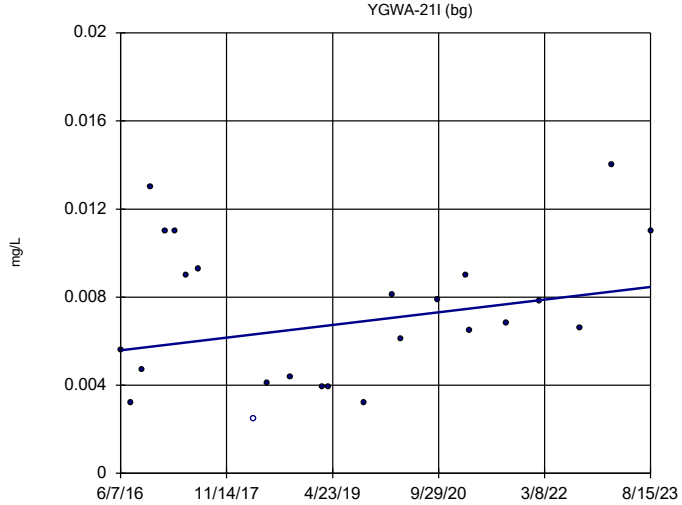
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-21I (bg)



n = 24

Slope = 0.0004012
units per year.

Mann-Kendall
statistic = 34
critical = 81

Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cobalt Analysis Run 10/18/2023 9:37 AM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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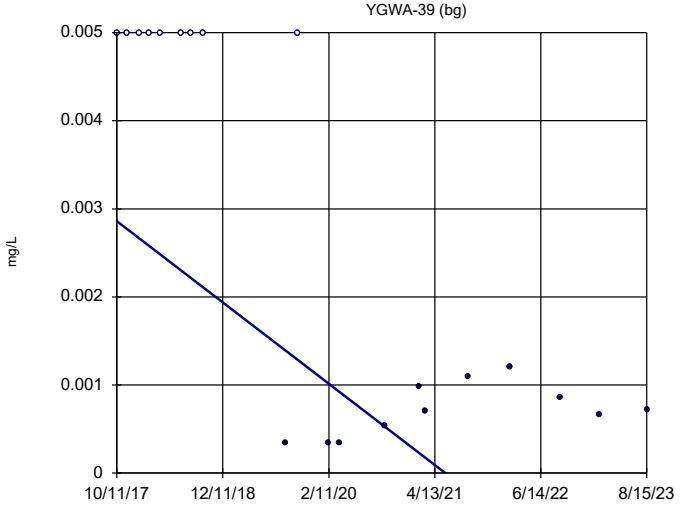
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 20

Slope = -0.0007887
units per year.

Mann-Kendall
statistic = -71
critical = -62

Decreasing trend
significant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cobalt Analysis Run 10/18/2023 9:37 AM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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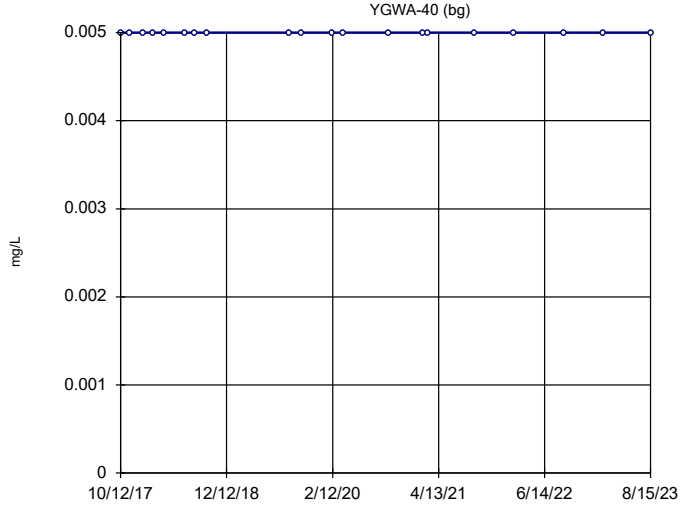
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-40 (bg)



n = 20

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 62

Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cobalt Analysis Run 10/18/2023 9:37 AM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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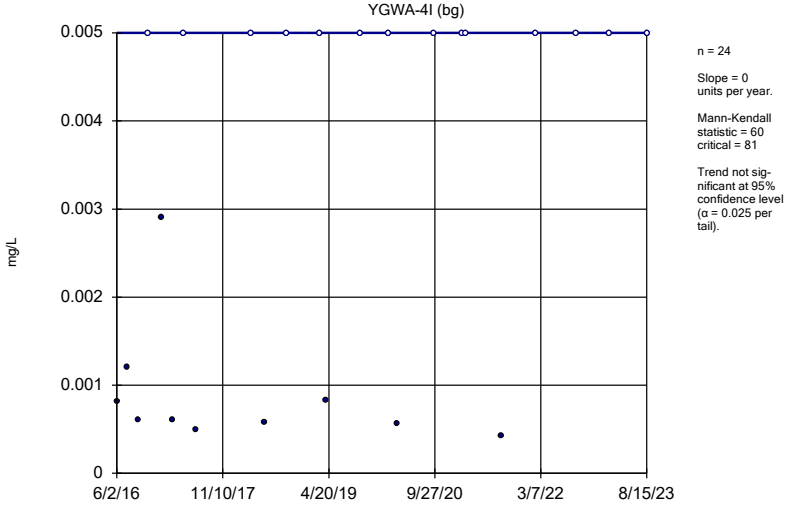
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-4I (bg)



n = 24

Slope = 0
units per year.

Mann-Kendall
statistic = 60
critical = 81

Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cobalt Analysis Run 10/18/2023 9:37 AM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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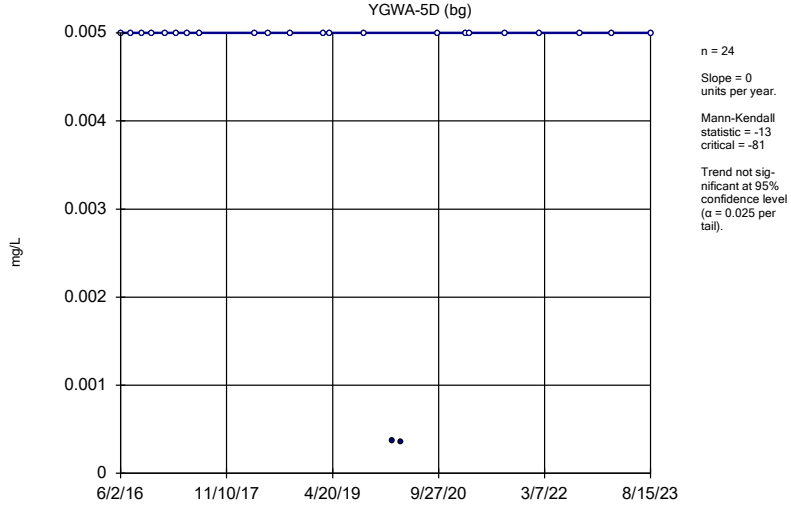
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5D (bg)



n = 24

Slope = 0
units per year.

Mann-Kendall
statistic = -13
critical = -81

Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cobalt Analysis Run 10/18/2023 9:37 AM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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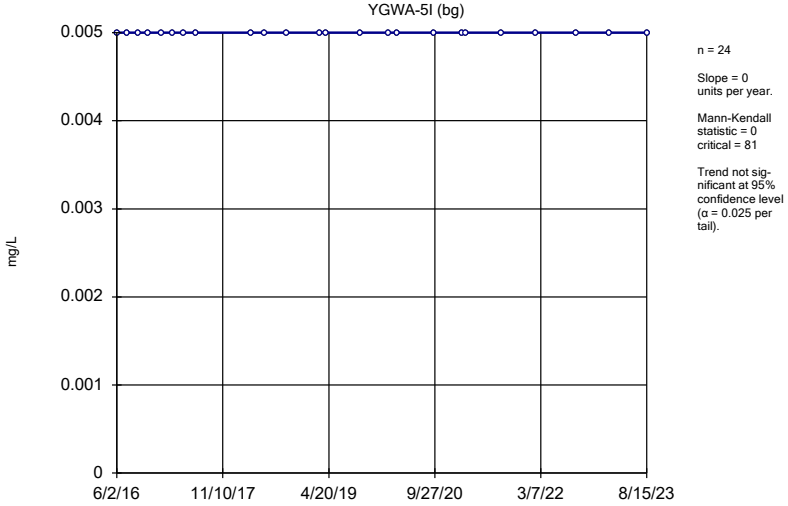
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5I (bg)



n = 24

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 81

Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cobalt Analysis Run 10/18/2023 9:37 AM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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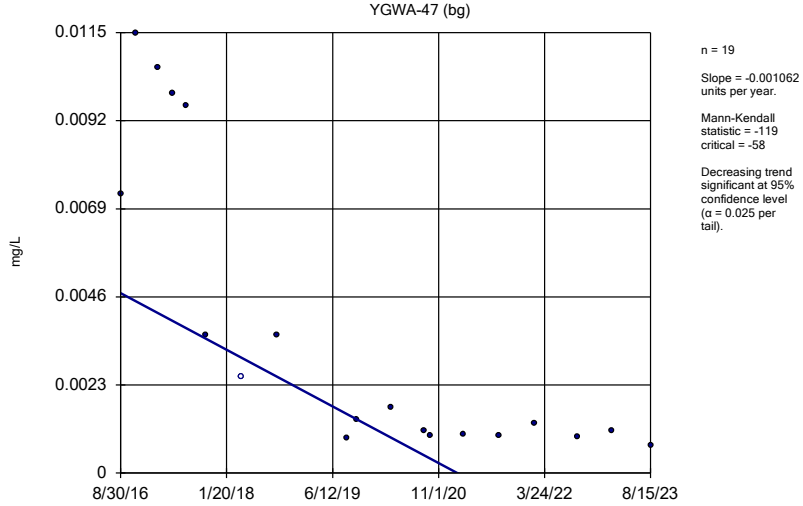
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-47 (bg)



n = 19

Slope = -0.001062
units per year.

Mann-Kendall
statistic = -119
critical = -58

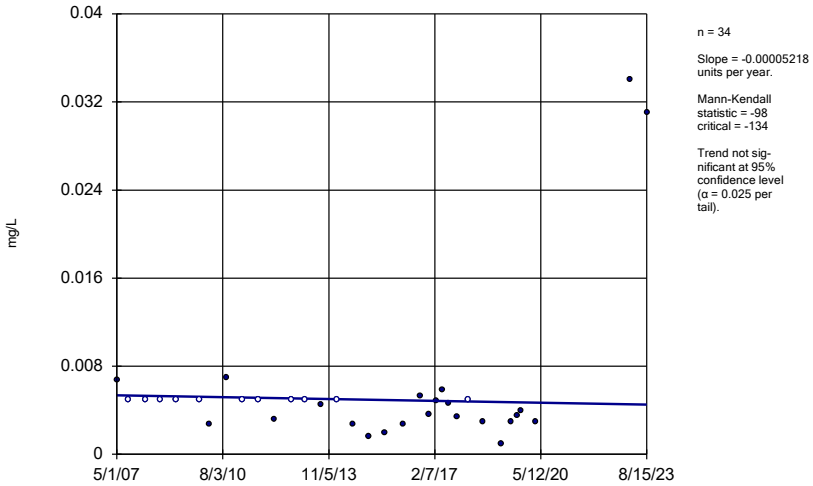
Decreasing trend
significant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cobalt Analysis Run 10/18/2023 9:37 AM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.13 Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 34

Slope = -0.00005218 units per year.

Mann-Kendall statistic = -98
critical = -134

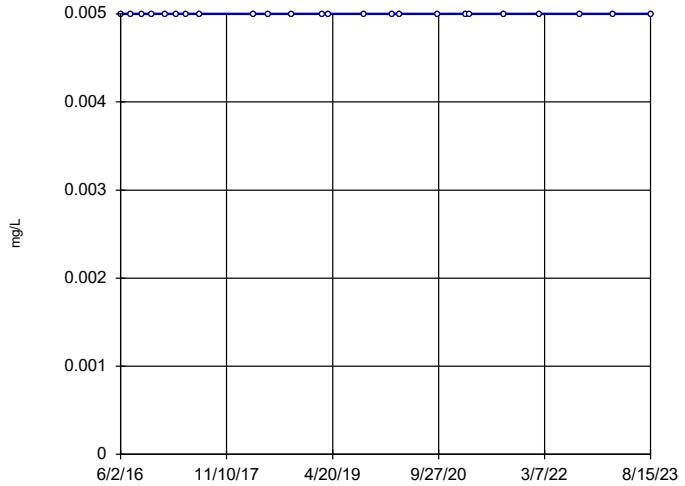
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 10/18/2023 9:37 AM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.13 Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-14S (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 81

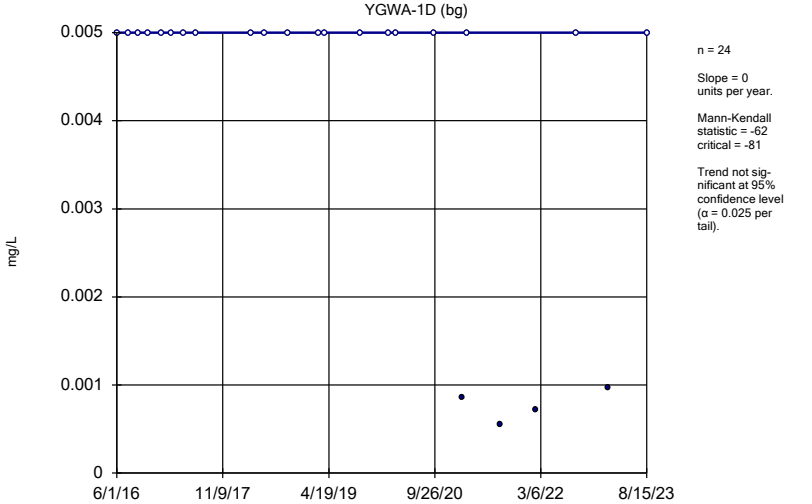
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 10/18/2023 9:37 AM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.13 Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1D (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = -62
critical = -81

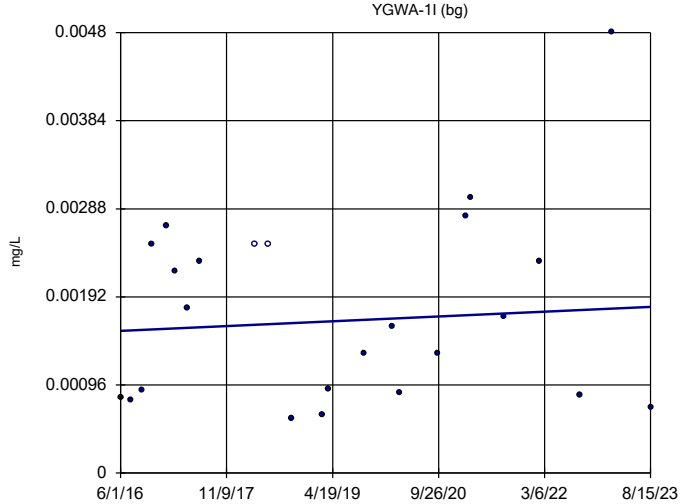
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 10/18/2023 9:37 AM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.13 Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1I (bg)



n = 24

Slope = 0.00003652 units per year.

Mann-Kendall statistic = 25
critical = 81

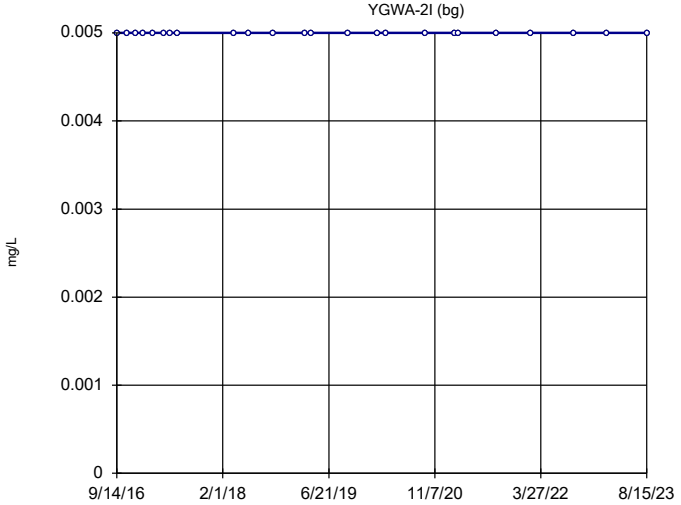
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 10/18/2023 9:37 AM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.13 Software licensed to . UG
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

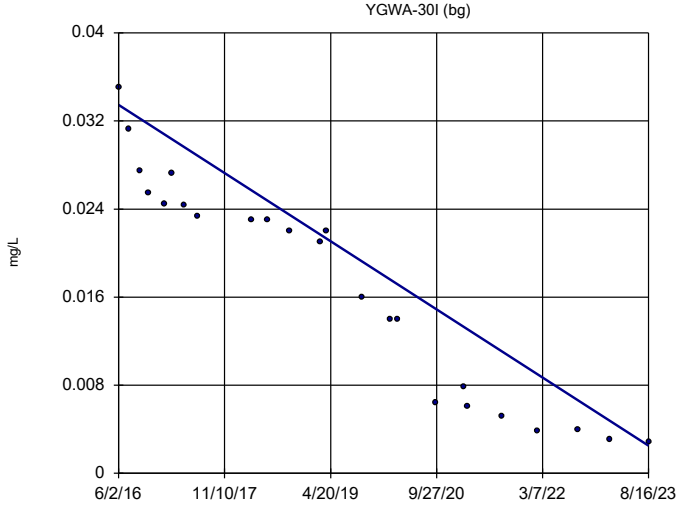
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 10/18/2023 9:37 AM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.13 Software licensed to . UG

Sen's Slope Estimator

YGWA-30I (bg)



n = 24

Slope = -0.004294 units per year.

Mann-Kendall statistic = -263
critical = -81

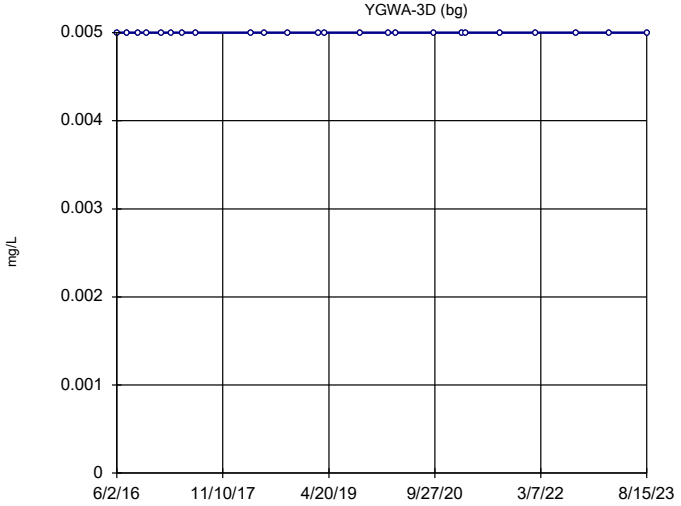
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 10/18/2023 9:37 AM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.13 Software licensed to . UG
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

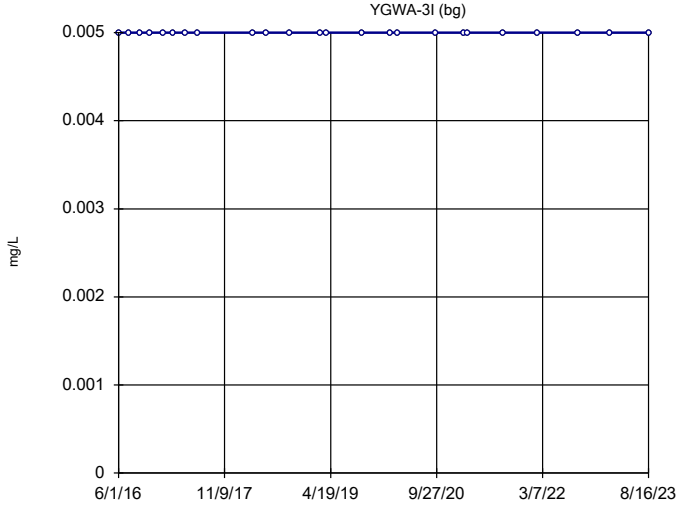
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 10/18/2023 9:37 AM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.13 Software licensed to . UG
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: Cobalt Analysis Run 10/18/2023 9:37 AM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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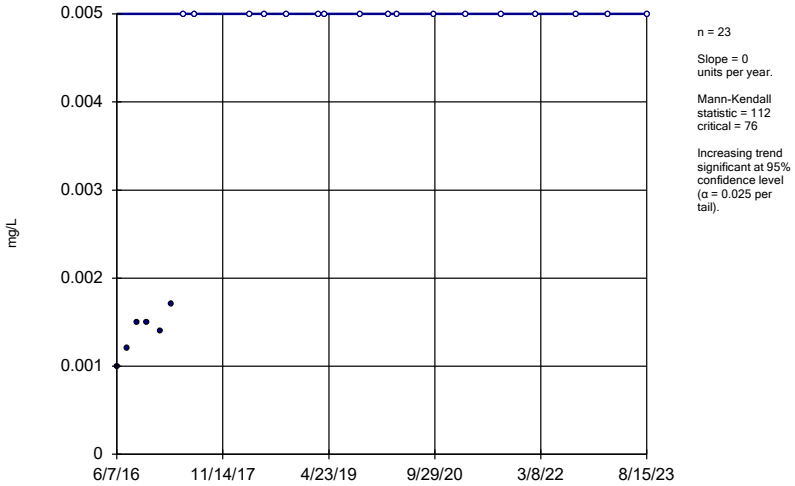
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-17S (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 112
critical = 76

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 10/18/2023 9:37 AM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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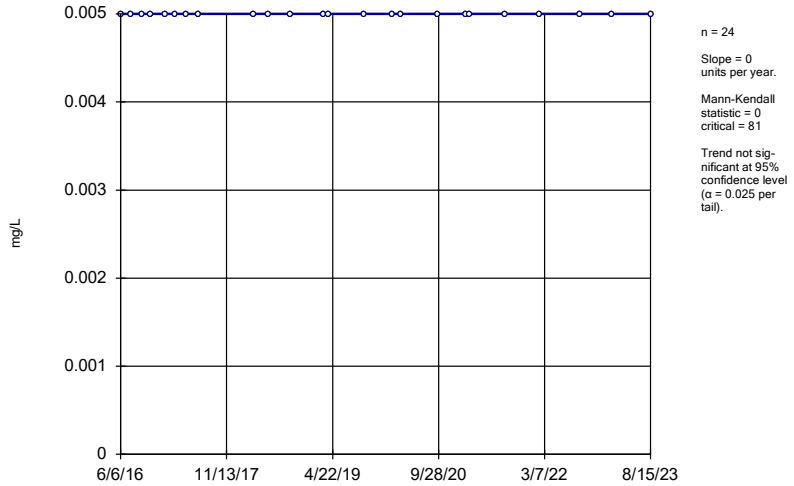
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (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 10/18/2023 9:37 AM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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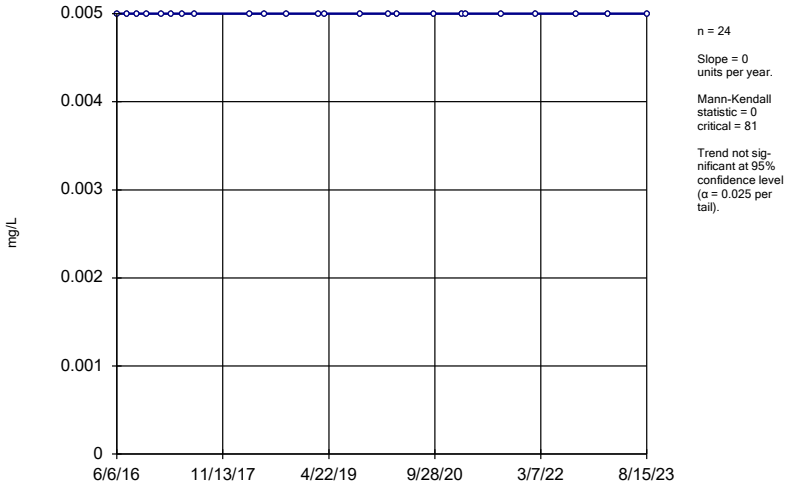
Sen's Slope Estimator

YGWA-18S (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 10/18/2023 9:37 AM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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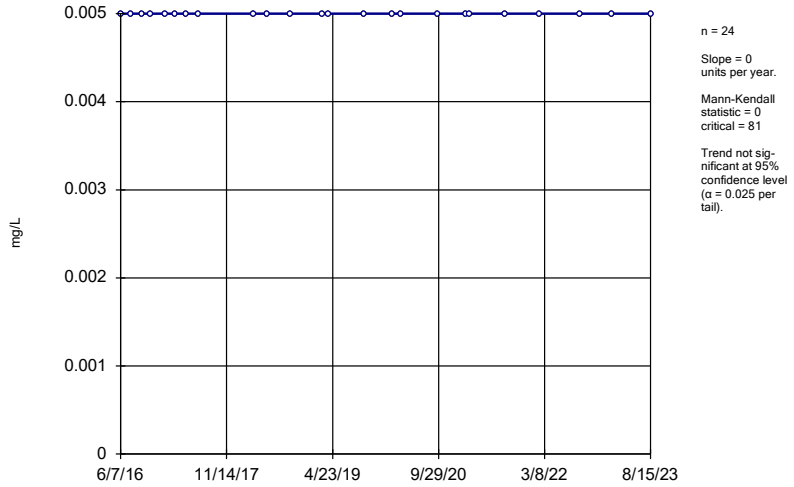
Sen's Slope Estimator

YGWA-20S (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 10/18/2023 9:37 AM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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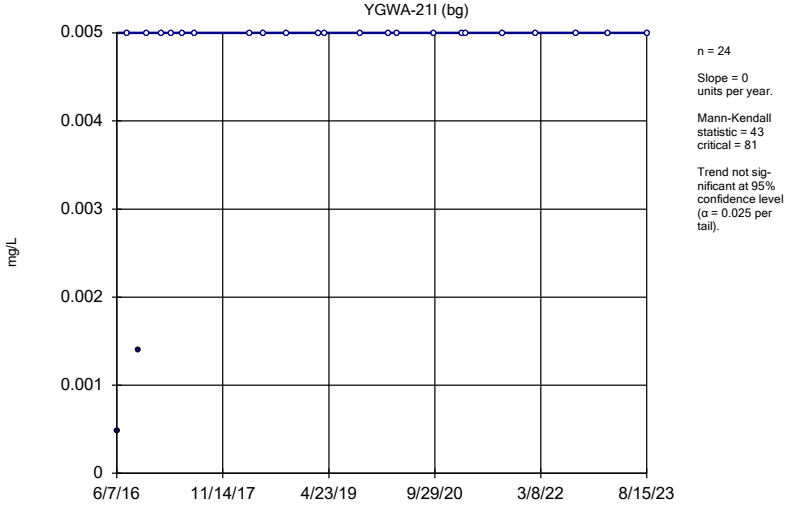
Sen's Slope Estimator

YGWA-21I (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = 43
critical = 81

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 10/18/2023 9:37 AM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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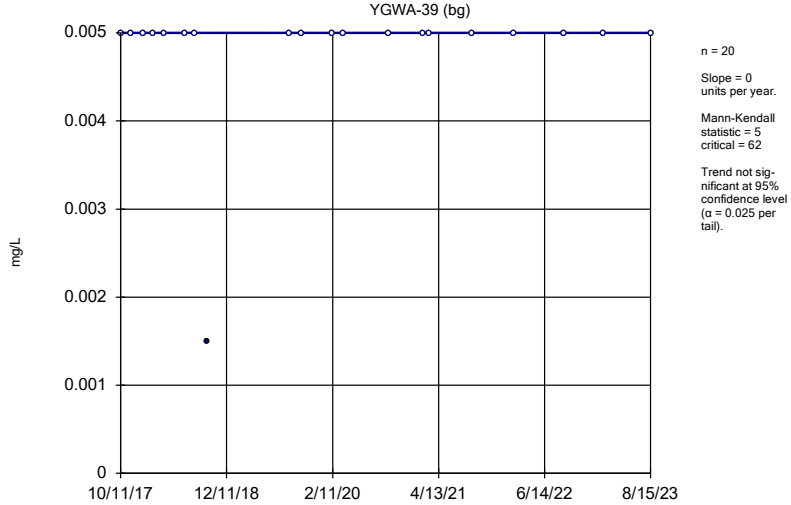
Sen's Slope Estimator

YGWA-39 (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 5
critical = 62

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 10/18/2023 9:37 AM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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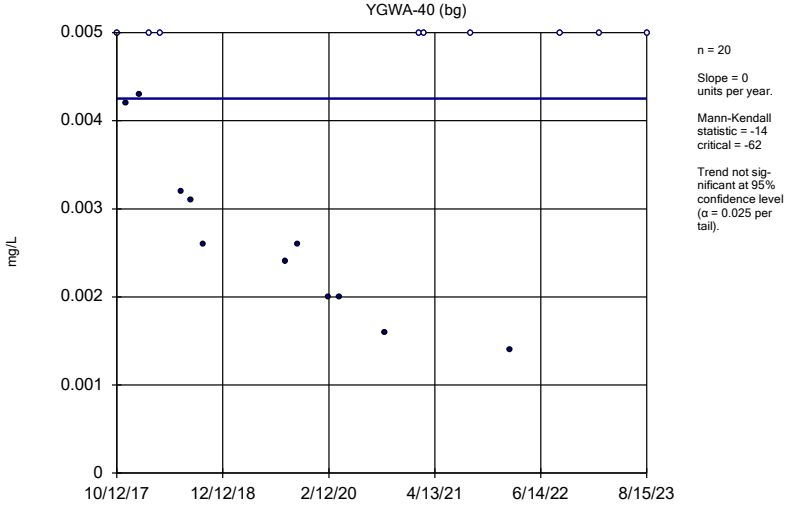
Sen's Slope Estimator

YGWA-40 (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = -14
critical = -62

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 10/18/2023 9:37 AM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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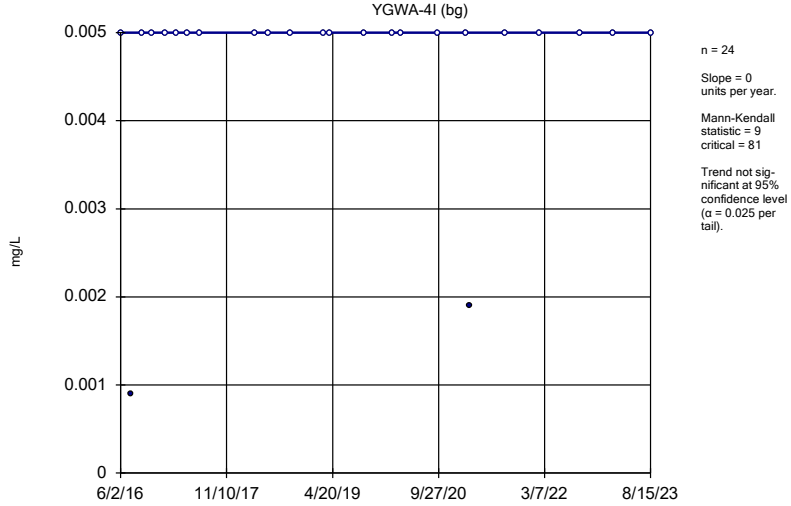
Sen's Slope Estimator

YGWA-4I (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = 9
critical = 81

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 10/18/2023 9:37 AM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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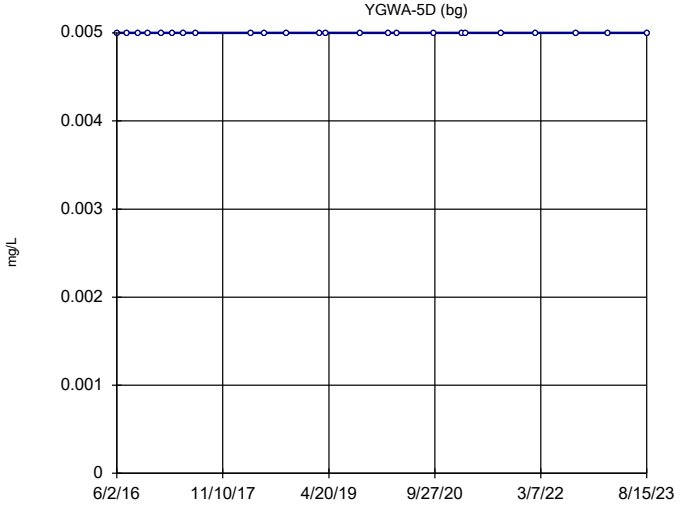
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5D (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 10/18/2023 9:37 AM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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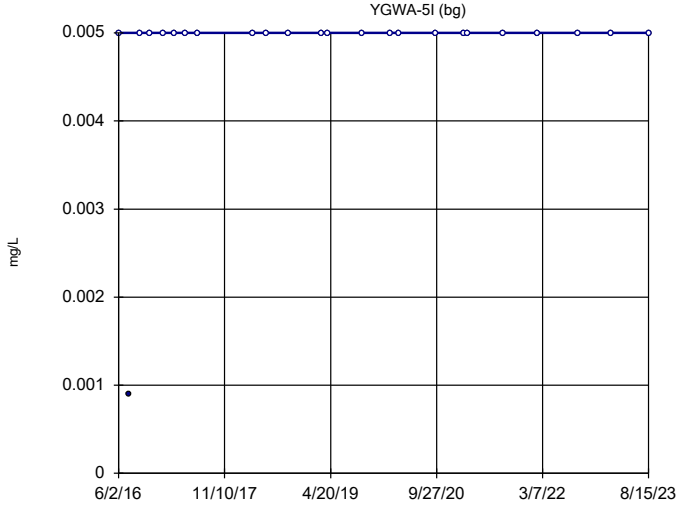
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5I (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = 21
critical = 81

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 10/18/2023 9:37 AM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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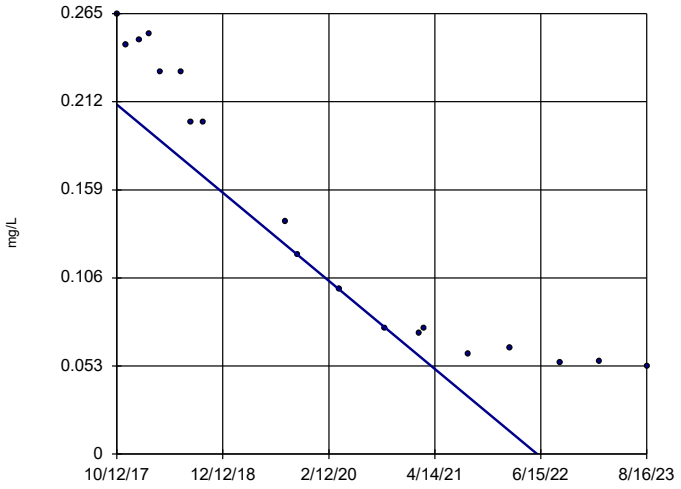
Sen's Slope Estimator

YGWC-38



n = 19

Slope = -0.04532 units per year.

Mann-Kendall statistic = -156
critical = -58

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 10/18/2023 9:37 AM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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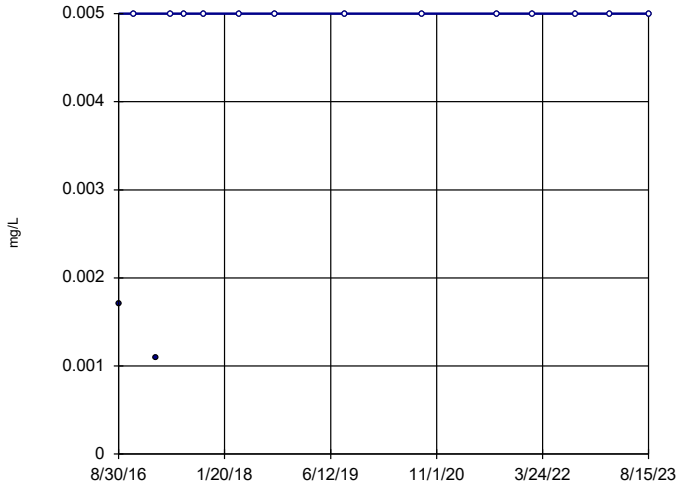
Sen's Slope Estimator

YGWA-47 (bg)



n = 15

Slope = 0 units per year.

Mann-Kendall statistic = 23
critical = 41

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 10/18/2023 9:37 AM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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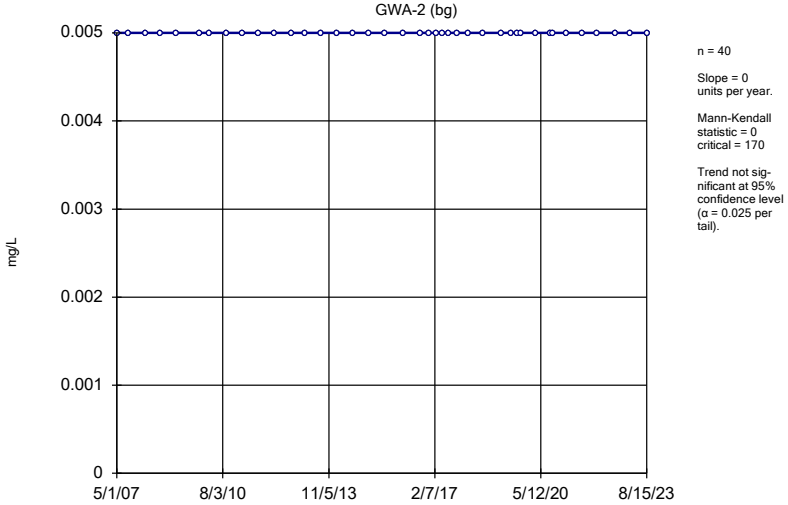
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 40

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 170

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 10/18/2023 9:37 AM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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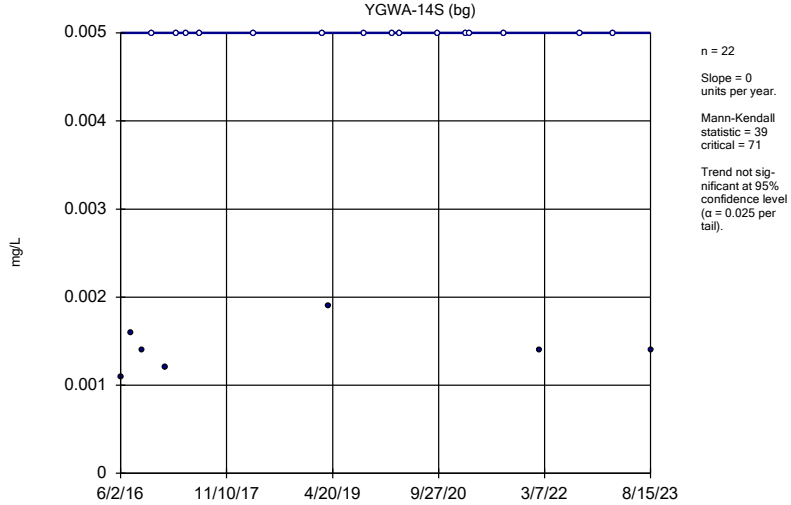
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-14S (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 39
critical = 71

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 10/18/2023 9:37 AM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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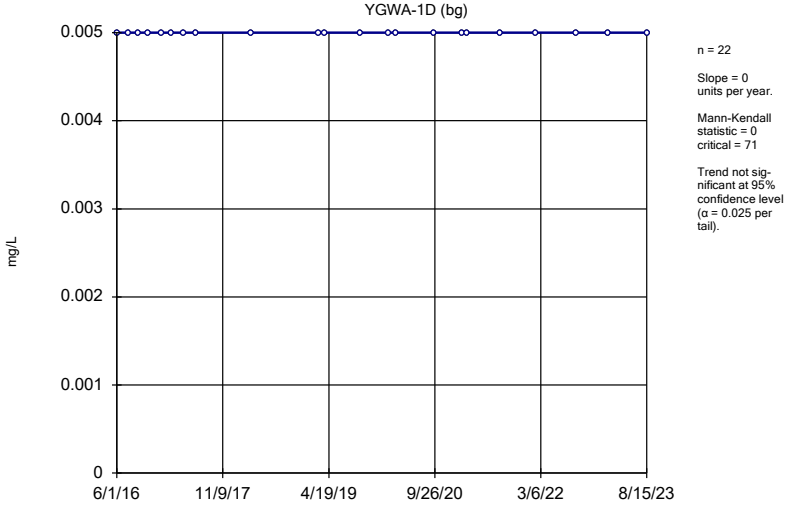
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1D (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 71

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 10/18/2023 9:37 AM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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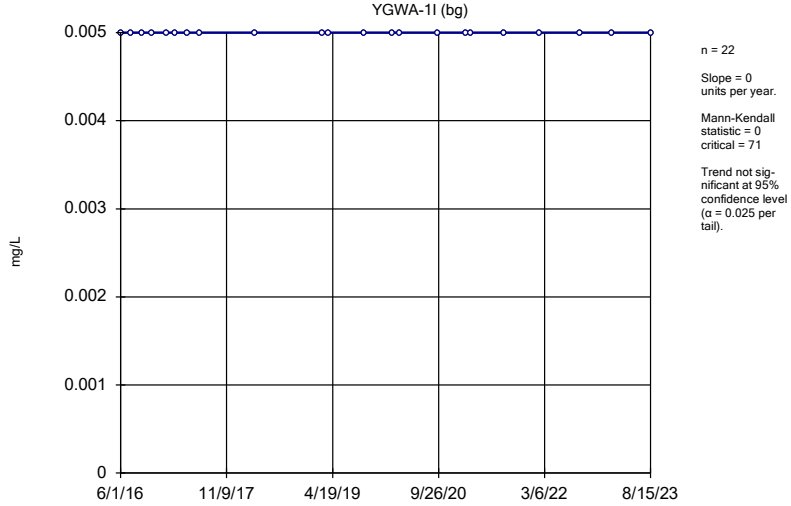
Sen's Slope Estimator

YGWA-1I (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 71

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 10/18/2023 9:38 AM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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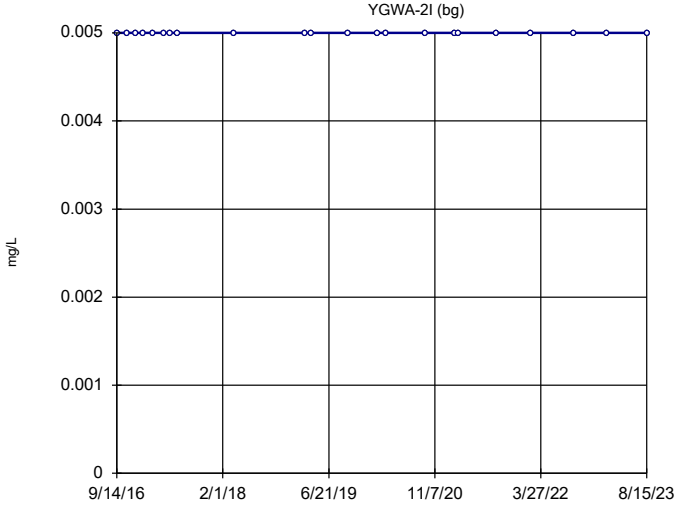
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-2I (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 71

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 10/18/2023 9:38 AM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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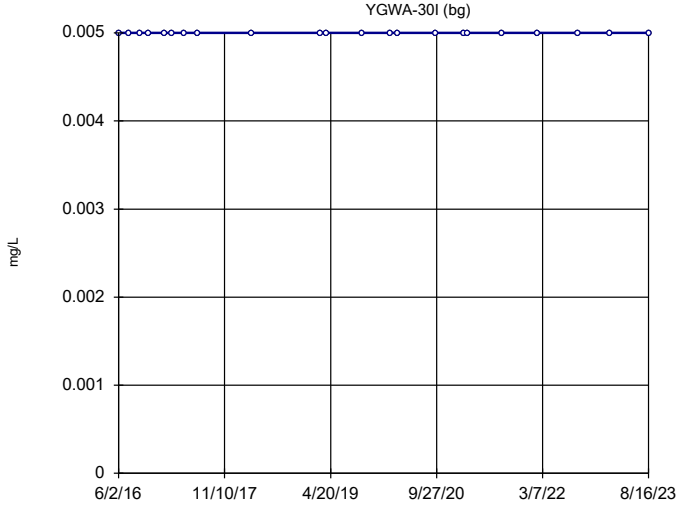
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 71

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 10/18/2023 9:38 AM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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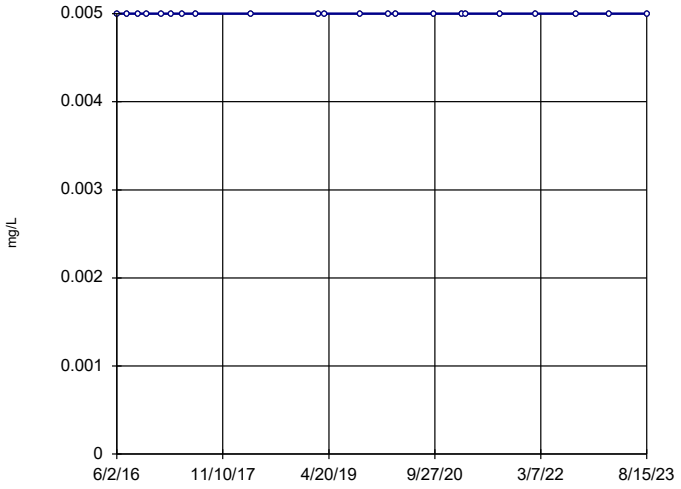
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3D (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 71

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 10/18/2023 9:38 AM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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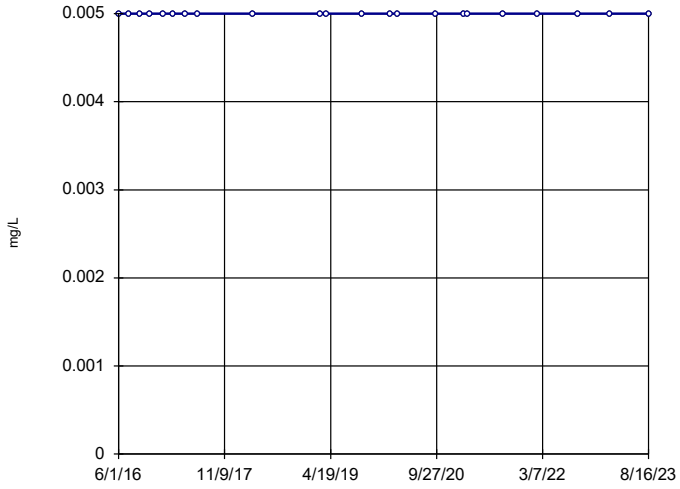
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3I (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 71

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 10/18/2023 9:38 AM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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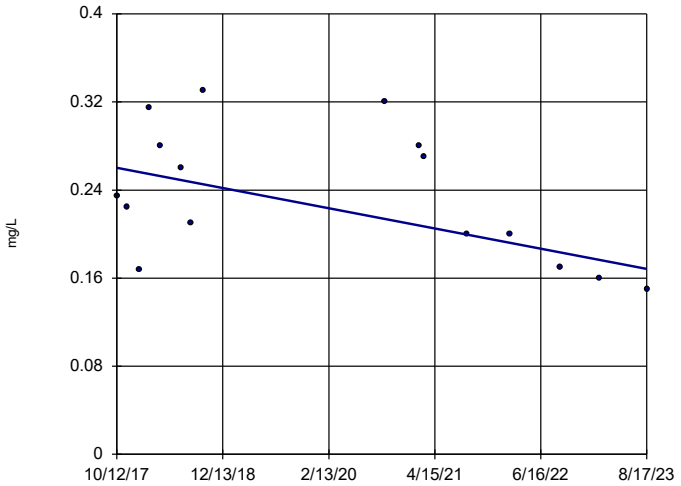
Sen's Slope Estimator

PZ-37



n = 16

Slope = -0.01569 units per year.

Mann-Kendall statistic = -44
critical = -45

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 10/18/2023 9:38 AM View: Appendix IV Trend Tests

Plant Yates Data: Plant Yates AMA-R6

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