



# **2023 Semiannual Groundwater Monitoring and Corrective Action Report**

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

August 31, 2023



# 2023 Semiannual Groundwater Monitoring and Corrective Action Report

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

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# **Summary**

This summary of the 2023 Semiannual Monitoring and Corrective Action Report provides the status of the groundwater monitoring and corrective action program from January through July 2023 at Georgia Power Company's (Georgia Power's) Plant Yates Ash Ponds (AP) AP-3, A, B, B', and the R6 Landfill (the site). This summary was prepared by Arcadis U.S., Inc. (Arcadis) on behalf of Georgia Power to meet the requirements listed in Part A, Section 6¹ of the United States Environmental Protection Agency (USEPA) Coal Combustion Residual (CCR) Rule (40 Code of Federal Regulations [CFR] 257 Subpart D).

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

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



Plant Yates and the site

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

During the January to July 2023 reporting period, Arcadis conducted a semiannual groundwater sampling event in February. Groundwater samples were submitted to Pace Analytical Services, LLC, for analysis. Per the CCR Rule, groundwater results were evaluated in accordance with the certified statistical methods. That evaluation showed statistically significant values of Appendix III<sup>2</sup> and Appendix IV<sup>3</sup> parameters<sup>4</sup> in the wells identified in the following table.

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<sup>&</sup>lt;sup>1</sup> 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

<sup>&</sup>lt;sup>2</sup> Boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids (TDS).

<sup>&</sup>lt;sup>3</sup> Antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, selenium, thallium, and radium 226 + 228

<sup>&</sup>lt;sup>4</sup> 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
Boron	YGWC-23S, YGWC-38, YGWC-41, YGWC-42, YGWC-43
Calcium	YGWC-38, YGWC-42
Sulfate	YGWC-38, YGWC-42, YGWC-43
Total Dissolved Solids	YGWC-38, YGWC-41, YGWC-42, YGWC-43
Appendix IV Parameter	February 2023
Selenium	PZ-37, YGWC-38

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

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

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

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# **Acronyms and Abbreviations**

ACC Atlantic Coast Consulting, Inc.

ACM Assessment of Corrective Measures

AP Plant Yates Ash Pond

Arcadis 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 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

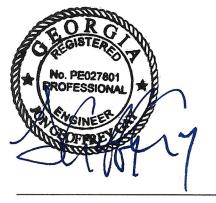
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## **Professional Certification**

This 2023 Semiannual Groundwater Monitoring and Corrective Action Report, Plant Yates AP-3, A, B, B', and R6 CCR Landfill has been prepared in compliance with the United States Environmental Protection Agency Coal Combustion Residual Rule (40 Code of Federal Regulations [CFR] 257 Subpart D), specifically § 257.90(e), and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist or engineer with Arcadis, U.S., Inc. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management 391-3-4.01.

Arcadis U.S., Inc.



J. Geoffrey Gay, P.E. Technical Expert (Eng) Georgia Registration No. PE 27801 8.31.23

Date

#### 1 Introduction

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

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

## 1.1 Background

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

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

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

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

## 1.2 Regional Geology and Hydrogeologic Setting

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

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

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

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

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

# 1.3 Groundwater Monitoring Well Network and CCR Unit Description

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

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

# 2 Groundwater Monitoring

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

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

## 2.1 Monitoring Well Installation and Maintenance

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

Monitoring wells are inspected semiannually to determine if any repairs or corrective actions are necessary to meet the requirements of the Georgia Water Well Standards Act (O.C.G.A. § 12-5-134(5)(d)(vii)). There were no well maintenance issues during this period that required corrective actions as documented in **Appendix A**.

## 2.2 Assessment Monitoring

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

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

#### 2.3 Additional Groundwater Evaluations

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

#### 2.4 Assessment of Corrective Measures

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

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

# 3 Sampling Methodology and Analysis

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

## 3.1 Groundwater Flow Direction, Gradient, and Velocity

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

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

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

$$v = \frac{k\left(\frac{dh}{dl}\right)}{n_e} \qquad \qquad \begin{aligned} &\text{where:} \\ &\text{v = groundwater seepage velocity} \\ &\text{k = hydraulic conductivity} \\ &\text{dh/dl = hydraulic gradient} \\ &\text{n_e = effective porosity} \end{aligned}$$

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

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

## 3.2 Groundwater Sampling

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

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

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

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

## 3.4 Data Quality Assurance/Quality Control and Validation

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

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

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

# 4 Statistical Analysis

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

#### 4.1 Statistical Methods

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

#### 4.1.1 Appendix III Statistical Methods

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

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

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

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

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

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

#### 4.1.2 Assessment Monitoring Statistical Methods

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

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

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

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

For the following constituents:

Cobalt: 0.006 milligram per liter (mg/L)

Lead: 0.015 mg/L

Lithium: 0.040 mg/L

Molybdenum: 0.100 mg/L; or

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

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

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

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

## 4.2 Statistical Analysis Results

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

#### 4.2.1 Appendix III Monitoring Constituents

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

#### 4.2.2 Appendix IV Assessment Monitoring Constituents

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

• Selenium: YGWC-38 and PZ-37

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

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

Decreasing trends: Selenium: YGWC-38

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

# 5 Monitoring Program Status

## 5.1 Assessment Monitoring Status

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

## 5.2 Remedy Selection Status

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

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

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

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

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

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

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

### 6 Conclusions and Recommendations

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

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

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

#### 7 References

- 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**





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

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

#### Acronyms and Abbreviations:

bTOC = below top of casing

ft = feet

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



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

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

#### **Acronyms and Abbreviations:**

bTOC = below top of casing

ft = feet





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

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

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

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





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 YAMW-4	2/6/2023 2/6/2023	796.05 805.59	37.59 33.39	758.46 772.20
YAMW-5	2/6/2023	788.90	16.37	772.53
Upgradient Wells - Fe		. 55.55		772.00
YGWA-4I	2/6/2023	784.21	23.64	760.57
YGWA-4I	2/6/2023	784.54	19.18	765.36
YGWA-5D	2/6/2023		19.36	
		784.53	11.57	765.17
YGWA-17S	2/6/2023	783.05		771.48
YGWA-18S YGWA-18I	2/6/2023	790.57	20.73	769.84
	2/6/2023	790.57 767.12	23.66	766.91
YGWA-20S	2/6/2023		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

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

#### **Acronyms and Abbreviations:**

bTOC = below top of casing

ft = feet

TOC = top of casing

#### Table 4

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



**Equation** 

V = K (dh/dl)

where: V = groundwater velocity

K = hydraulic conductivity

dh/dl = i = hydraulic gradient

 $n_e$  = effective porosity

#### Values Used in Calculation

V	alue		Source
K <sub>max</sub> :	3.70E-03	cm/sec	
	10	ft/day	
K <sub>min</sub> :	9.70E-05	cm/sec	See note 1
	0.28	ft/day	See note 1
K <sub>avg</sub> :	2.90E-04	cm/sec	
	0.8	ft/day	
Distar	ice 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	
Groundwa	ter Elevation	n	Date Collected:
YGWA-40	792.71		
YGWC-42	768.32	feet	February 2023
YGWC-49	749.41	ieet	rebluary 2023
PZ-24IB	736.44		
			Hydraulic gradient from:
i <sub>1</sub> =	0.022	unitless	YGWA-40 to YGWC-42 (Feb. 2023)
i <sub>2</sub> =	0.013	unitless	YGWC-49 to PZ-24I (Feb. 2023)
i <sub>avg</sub> =	0.017	unitless	Average
n <sub>e</sub> =	0.20	unitless	See note 2

Minimum Linear Flow Velocity

<u>Maximum Linear Flow Velocity</u>
<u>February 2023</u>

February 2023

 $V_{min} = \underline{(0.28) (0.017)}$   $V_{max} = \underline{(10) (0.017)}$ 0.20
0.20

 $V_{min} = 0.02 \text{ ft/day, or } 7.3 \text{ ft/year}$   $V_{max} = 0.9 \text{ ft/day, or } 310 \text{ ft/year}$ 

Average Linear Flow Velocity

February 2023

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

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

#### Notes:

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

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



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

#### Notes:

CFR = Code of Federal Regulations

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



	Analyte	Units	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-38	YGWC-41	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37
	Analyte	Units	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
	рН	SU	5.33	5.67	5.67	5.16	4.69	5.48	5.40	5.61	5.50	5.15
	Boron	mg/L	1.6	< 0.0086	0.028 J	4.1	3.3	14.5	2.5	0.014 J	0.076	8.2
Appendix III	Calcium	mg/L	10.9	2.4	9.2	55.3	14.4	74.6	11.0	11.8	14.5	95.9
Appendix III	Chloride	mg/L	2.0	9.1	5.9	3.9	4.0	3.4	2.4	4.4	5.4	3.8
	Fluoride	mg/L	< 0.050	0.051 J	< 0.050	< 0.050	< 0.050	0.080 J	0.11	< 0.050	< 0.050	< 0.050
	Sulfate	mg/L	78.0	0.50 J	50.8	251	119	494	164	71.1	84.6	449
	Total Dissolved Solids	mg/L	158	66.0	116	579	257	853	333	145	196	822
	Antimony	mg/L	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078
	Arsenic	mg/L	< 0.0022	0.0035 J	0.0047 J	< 0.0022	0.0027 J	0.0025 J	0.0033 J	< 0.0022	0.0028 J	< 0.0022
	Barium	mg/L	0.053	0.031	0.097	0.016	0.022	0.023	0.031	0.063	0.13	0.022
	Beryllium	mg/L	0.00022 J	0.000054 J	0.00066	0.0020	0.0013	0.000062 J	0.00036 J	0.00012 J	0.00080	0.0011
	Cadmium	mg/L	< 0.00011	< 0.00011	< 0.00011	0.00068	< 0.00011	0.00014 J	< 0.00011	< 0.00011	0.00025 J	0.00076
	Chromium	mg/L	0.0014 J	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	0.0020 J	0.0016 J	< 0.0011
	Cobalt	mg/L	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	0.0018 J	0.00049 J	< 0.00039	< 0.00039	0.0022 J
Appendix IV	Fluoride	mg/L	< 0.050	0.051 J	< 0.050	< 0.050	< 0.050	0.080 J	0.11	< 0.050	< 0.050	< 0.050
	Lead	mg/L	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
	Lithium	mg/L	0.0028 J	< 0.00073	0.0010 J	0.0058 J	0.0021 J	0.046	0.015 J	0.0033 J	0.0026 J	0.013 J
	Mercury	mg/L	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
	Molybdenum	mg/L	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	0.00081 J	0.0016 J	< 0.00074	< 0.00074	< 0.00074
	Combined Radium - 226/228	pCi/l	0.400 U	0.137 U	0.326 U	0.361 U	0.852 U	0.817	3.73	0.667 U	0.718 U	0.742 U
	Selenium	mg/L	0.035	< 0.0014	0.0027 J	0.056	0.027	0.041	< 0.0014	0.0054	0.0041 J	0.16
	Thallium	mg/L	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018

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

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

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

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

#### **Laboratory Qualifiers:**

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

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2023 Semiannual Groundwater Monitoring and Corrective Action Report

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



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

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

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2023 Semiannual Groundwater Monitoring and Corrective Action Report



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

#### Notes:

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

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

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

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2023 Semiannual Groundwater Monitoring and Corrective Action Report

**Georgia Power Company** 

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



	Analyte	Units	YGWA-39	YGWA-40	YGWA-47
	Allalyte	Units	2/7/2023	2/8/2023	2/8/2023
	рН	SU	5.49	5.71	5.22
	Boron	mg/L	0.13	0.057	0.011 J
	Calcium	mg/L	16.1	5.9	9.2
Appendix III	Chloride	mg/L	5.6	6.9	3.5
	Fluoride	mg/L	0.076 J	< 0.050	0.077 J
	Sulfate	mg/L	9.7	17.5	50.5
	Total Dissolved Solids	mg/L	224	115	141
	Antimony	mg/L	< 0.00078	< 0.00078	< 0.00078
	Arsenic	mg/L	0.0029 J	< 0.0022	< 0.0022
	Barium	mg/L	0.030	0.037	0.031
	Beryllium	mg/L	< 0.000054	0.00026 J	< 0.000054
	Cadmium	mg/L	0.00014 J	< 0.00011	0.00032 J
	Chromium	mg/L	< 0.0011	< 0.0011	< 0.0011
A 11/	Cobalt	mg/L	0.00066 J	< 0.00039	0.0011 J
Appendix IV	Lead	mg/L	< 0.00089	< 0.00089	< 0.00089
	Lithium	mg/L	0.0065 J	0.00074 J	0.0037 J
	Mercury	mg/L	< 0.00013	< 0.00013	< 0.00013
	Molybdenum	mg/L	0.0045 J	< 0.00074	< 0.00074
	Combined Radium - 226/228	pCi/l	1.41	1.56	0.375 U
	Selenium	mg/L	< 0.0014	< 0.0014	< 0.0014
	Thallium	mg/L	< 0.00018	< 0.00018	< 0.00018

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



	Analyta	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
	Analyte	Ullits	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
	рН	SU	5.94	6.53	7.86	6.94	7.73	7.88	6.23	5.90	6.64	5.39	5.47	6.00
	Boron	mg/l	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0086	0.015 J	0.014 J	< 0.0086
	Calcium	mg/l	22.3	2.2	15.0	25.6	23.3	28.9	9.6	2.8	26.6	1.5	2.9	5.5
Appendix III	Chloride	mg/l	6.1	1.5	1.3	1.1	1.1	1.2	4.5	5.0	3.3	4.9	11.4	7.4
	Fluoride	mg/l	0.095 J	0.071 J	0.093 J	0.12	0.16	0.56	0.067 J	< 0.050	0.082 J	0.059 J	< 0.050	< 0.050
	Sulfate	mg/l	82.4	6.6	10.6	17.8	14.7	7.5	8.9	2.9	5.2	6.1	4.9	0.78 J
	Total Dissolved Solids	mg/l	207	121	131	159	145	144	124	59.0	180	56.0	78.0	96.0
	Antimony	mg/l	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	0.0013 J	< 0.00078
	Arsenic	mg/l	< 0.0022	< 0.0022	< 0.0022	< 0.0022	0.0024 J	0.0030 J	< 0.0022	< 0.0022	0.0030 J	< 0.0022	< 0.0022	< 0.0022
	Barium	mg/l	0.034	0.21	0.14	0.0026 J	0.0029 J	0.0048 J	0.014	0.019	0.0075	0.0089	0.017	0.019
	Beryllium	mg/l	< 0.000054	0.00054	0.0011	< 0.000054	< 0.000054	< 0.000054	< 0.000054	< 0.000054	< 0.000054	0.00022 J	0.000096 J	< 0.000054
	Cadmium	mg/l	0.00012 J	< 0.00011	< 0.00011	< 0.00011	0.00013 J	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011
	Chromium	mg/l	< 0.0011	0.0013 J	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	0.0012 J	< 0.0011	< 0.0011	< 0.0011	< 0.0011
Appendix IV	Cobalt	mg/l	0.034	0.0048 J	0.00097 J	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039
Appendix IV	Lead	mg/l	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
	Lithium	mg/l	0.0022 J	0.0029 J	0.0060 J	0.0047 J	0.018 J	0.023 J	0.014 J	0.0036 J	0.0059 J	< 0.00073	< 0.00073	0.0030 J
	Mercury	mg/l	0.00013 J	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	0.00018 J	0.00013 J
	Molybdenum	mg/l	< 0.00074	< 0.00074	< 0.00074	0.0061 J	0.0065 J	0.012	< 0.00074	< 0.00074	0.00095 J	< 0.00074	< 0.00074	< 0.00074
	Combined Radium - 226/228	pCi/l	1.00	0.661 U	0.920 U	0.536 U	1.18	2.74	1.12	0.0815 U	3.99	0.830 U	0.367 U	0.485 U
	Selenium	mg/l	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014
	Thallium	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018

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

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2023 Semiannual Groundwater Monitoring and Corrective Action Report 2 | 2

#### Table 6c

**Upgradient Groundwater Analytical Data - February 2023** 2023 Semiannual Groundwater Monitoring and Corrective Action Report

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



	Analyte	Units	GWA-2	YGWA-1I	YGWA-1D	YGWA-2I	YGWA-3I	YGWA-3D	YGWA-4I	YGWA-5I	YGWA-5D	YGWA-14S	YGWA-17S	YGWA-18I
	Allalyte	Ullits	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
	рН	SU	5.94	6.53	7.86	6.94	7.73	7.88	6.23	5.90	6.64	5.39	5.47	6.00
	Boron	mg/l	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0086	0.015 J	0.014 J	< 0.0086
	Calcium	mg/l	22.3	2.2	15.0	25.6	23.3	28.9	9.6	2.8	26.6	1.5	2.9	5.5
Appendix III	Chloride	mg/l	6.1	1.5	1.3	1.1	1.1	1.2	4.5	5.0	3.3	4.9	11.4	7.4
	Fluoride	mg/l	0.095 J	0.071 J	0.093 J	0.12	0.16	0.56	0.067 J	< 0.050	0.082 J	0.059 J	< 0.050	< 0.050
	Sulfate	mg/l	82.4	6.6	10.6	17.8	14.7	7.5	8.9	2.9	5.2	6.1	4.9	0.78 J
	Total Dissolved Solids	mg/l	207	121	131	159	145	144	124	59.0	180	56.0	78.0	96.0
	Antimony	mg/l	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	0.0013 J	< 0.00078
	Arsenic	mg/l	< 0.0022	< 0.0022	< 0.0022	< 0.0022	0.0024 J	0.0030 J	< 0.0022	< 0.0022	0.0030 J	< 0.0022	< 0.0022	< 0.0022
	Barium	mg/l	0.034	0.21	0.14	0.0026 J	0.0029 J	0.0048 J	0.014	0.019	0.0075	0.0089	0.017	0.019
	Beryllium	mg/l	< 0.000054	0.00054	0.0011	< 0.000054	< 0.000054	< 0.000054	< 0.000054	< 0.000054	< 0.000054	0.00022 J	0.000096 J	< 0.000054
	Cadmium	mg/l	0.00012 J	< 0.00011	< 0.00011	< 0.00011	0.00013 J	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011
	Chromium	mg/l	< 0.0011	0.0013 J	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	0.0012 J	< 0.0011	< 0.0011	< 0.0011	< 0.0011
Appendix IV	Cobalt	mg/l	0.034	0.0048 J	0.00097 J	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039
Appendix IV	Lead	mg/l	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
	Lithium	mg/l	0.0022 J	0.0029 J	0.0060 J	0.0047 J	0.018 J	0.023 J	0.014 J	0.0036 J	0.0059 J	< 0.00073	< 0.00073	0.0030 J
	Mercury	mg/l	0.00013 J	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	0.00018 J	0.00013 J
	Molybdenum	mg/l	< 0.00074	< 0.00074	< 0.00074	0.0061 J	0.0065 J	0.012	< 0.00074	< 0.00074	0.00095 J	< 0.00074	< 0.00074	< 0.00074
	Combined Radium - 226/228	pCi/l	1.00	0.661 U	0.920 U	0.536 U	1.18	2.74	1.12	0.0815 U	3.99	0.830 U	0.367 U	0.485 U
	Selenium	mg/l	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014
	Thallium	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018

Notes:

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

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

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

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

#### **Laboratory Qualifiers:**

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

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

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

Notes:

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

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

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

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

#### **Laboratory Qualifiers:**

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

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

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Analyte	Units	GWA-2	YGWA-1I	YGWA-1D	YGWA-2I	YGWA-3I	YGWA-3D	YGWA-4I	YGWA-5I	YGWA-5D	YGWA-14S	YGWA-17S	YGWA-18I
Analyte	Offics	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 <sub>3</sub>	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 <sub>3</sub>	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 <sub>3</sub>	< 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

Analytical results are reported in milligrams per liter.

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

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Analyte	Units	YGWA-18S	YGWA-20S	YGWA-21I	YGWA-30I	YGWA-39	YGWA-40	YGWA-47
Analyte	Offics	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 <sub>3</sub>	9.3	23.3	78.4	15.4	177	27.6	37.8
Alkalinity, Bicarbonate	mg/l as CaCO <sub>3</sub>	9.3	23.3	78.4	15.4	177	27.6	37.8
Alkalinity, Carbonate	mg/l as CaCO <sub>3</sub>	< 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

Analytical results are reported in milligrams per liter.

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

2023 Semiannual Groundwater Monitoring and Corrective Action Report





Constituent	Units	Background	GWPS					
February 2023 (AP-3, A, B, B', R6 Landfill)								
Antimony	mg/L	0.0047	0.006					
Arsenic	mg/L	0.005	0.010					
Barium	mg/L	0.21	2.0					
Beryllium	mg/L	0.0011	0.004					
Cadmium	mg/L	0.00063	0.005					
Chromium	mg/L	0.0093	0.100					
Cobalt	mg/L	0.035	0.035 <sup>2</sup>					
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 <sup>2</sup>					

#### Notes:

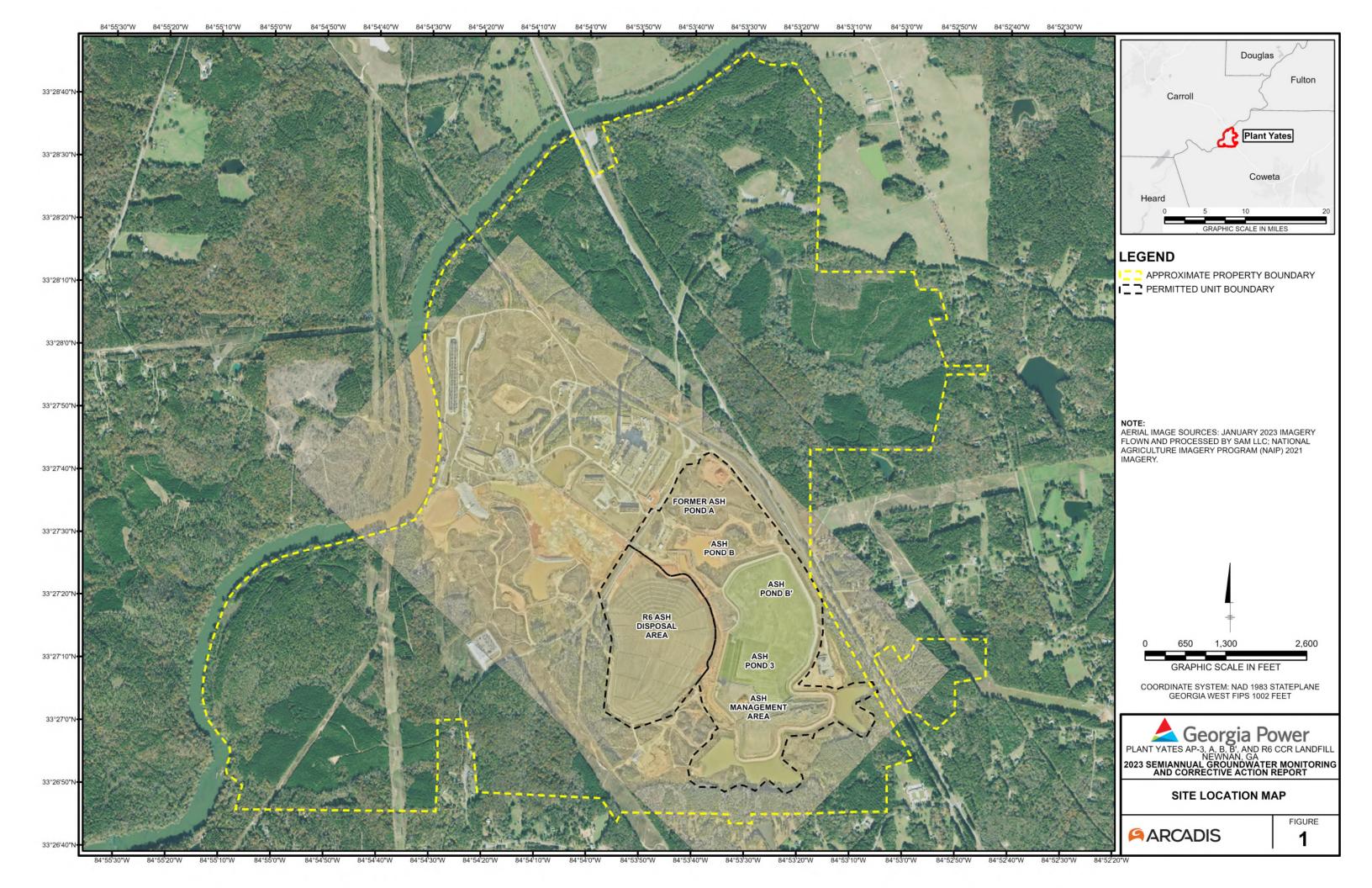
- 1. Site background: Tolerance limits calculated from pooled upgradient well data.
- 2. Background concentration is higher than the federally promulgated value (0.006 mg/L for Cobalt). Background is higher than radium MCL (5 mg/L). Therefore, background is the GWPS.

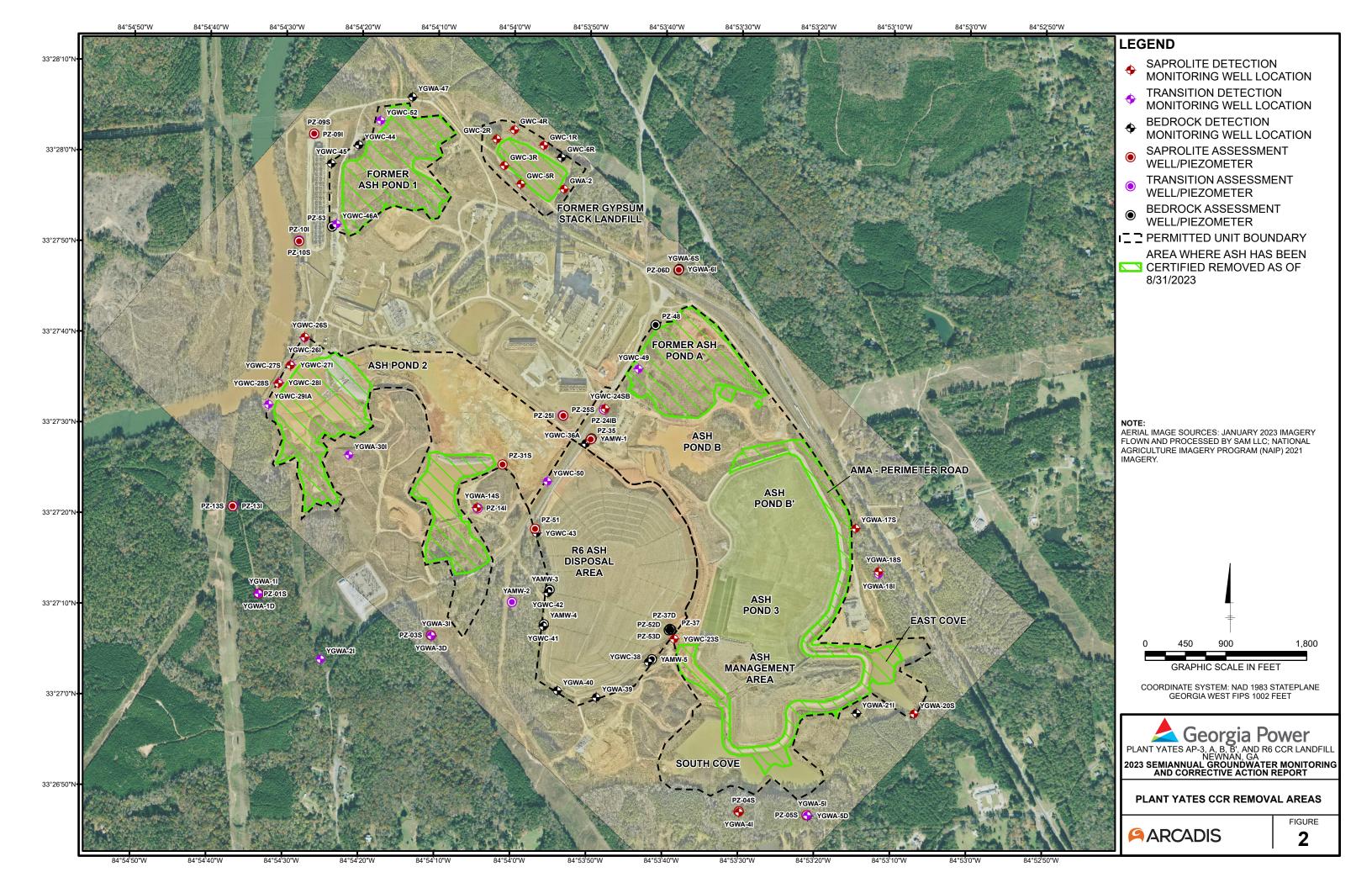
#### Acronyms and Abbreviations:

mg/L = millgrams per liter

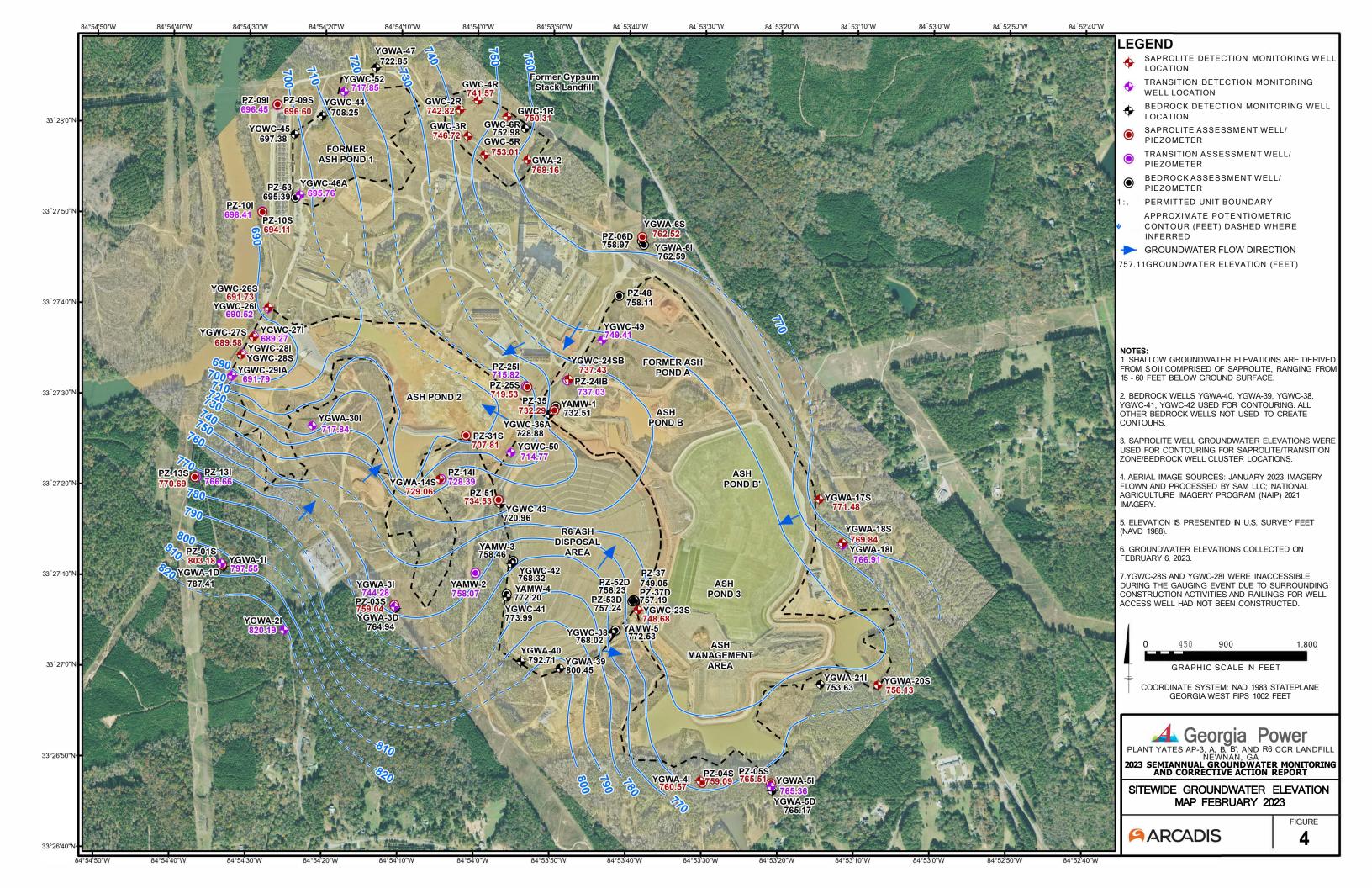
pCi/L = picocuries per liter

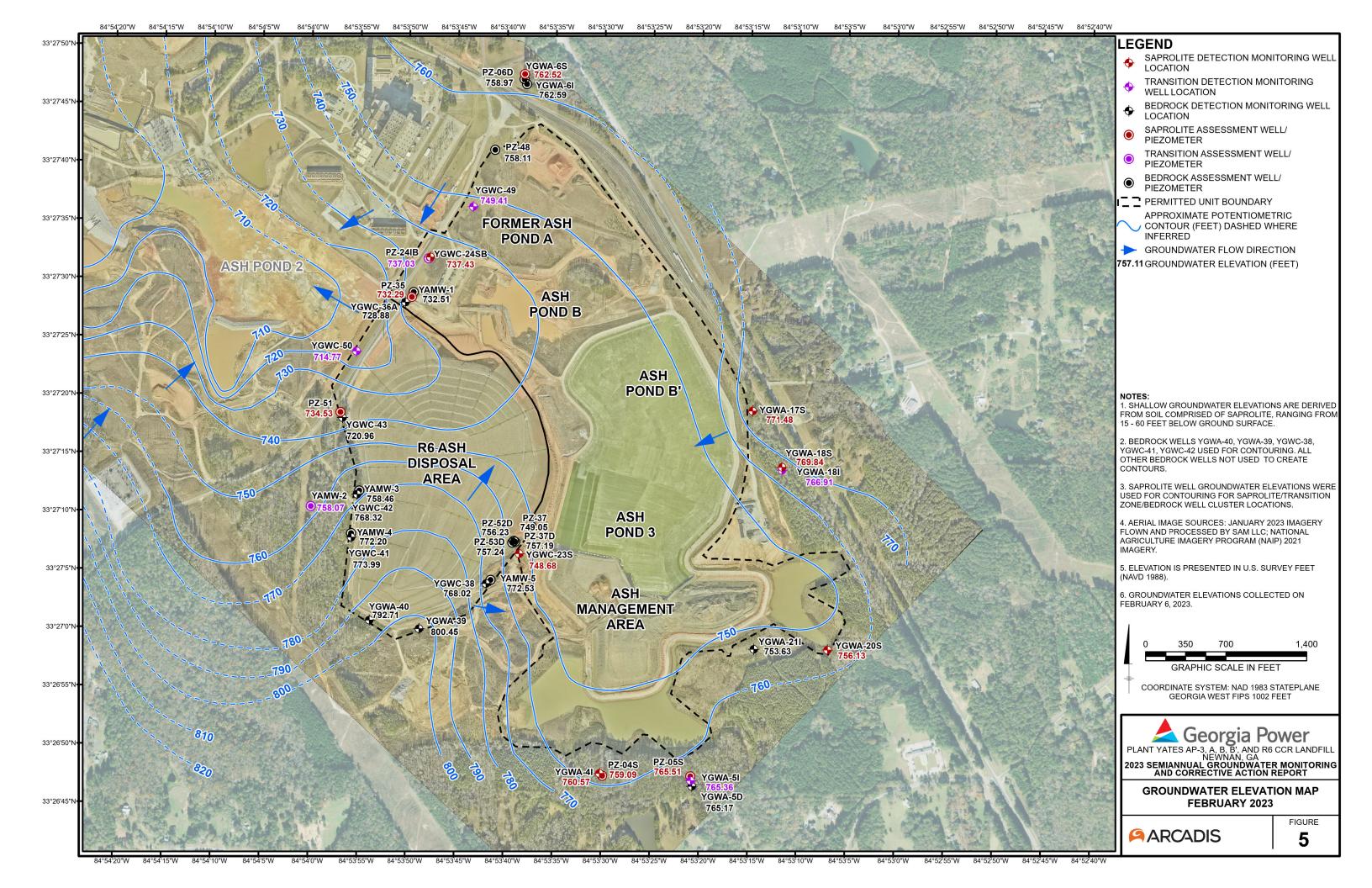
# **Figures**

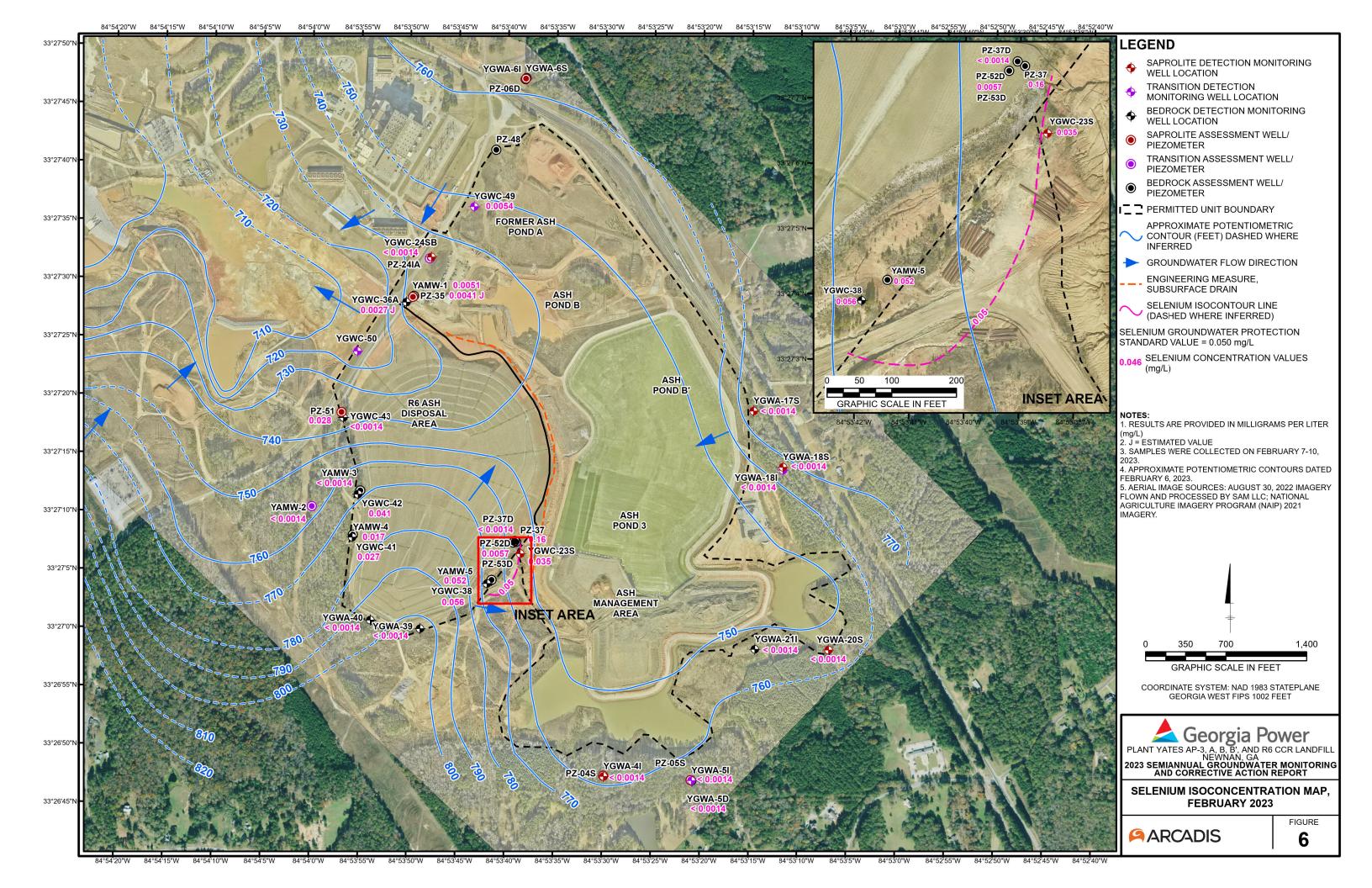












# **Appendix A**

Field Sampling and Well Inspection Forms

Project Plant Yates

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

# Instrument Calibration Date: 02/07/2023 Initial

Date: 02/01/2020						
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
рН	S.U.	4.00	4.00	4.00	4.00	4.00
рН	S.U.	7.00	7.00	7.06	7.06	7.06
рН	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
рН	S.U.	4.00	4.00	4.00	4.00	4.00
рН	S.U.	7.00	7.00	7.00	7.00	7.02
рН	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:

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
рН	S.U.	4.00	4.00	4.00	4.00	4.00
рН	S.U.	7.00	7.02	7.04	7.04	7.02
рН	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
рН	S.U.	4.00	4.00	4.00	4.00	4.00
рН	S.U.	7.00	7.00	7.00	7.02	7.02
рН	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:

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
рН	S.U.	4.00	4.00	4.00	4.00	4.00
рН	S.U.	7.00	7.02	7.00	7.02	7.02
pН	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
рН	S.U.	4.00	4.00	4.01	4.00	4.00
рН	S.U.	7.00	7.02	7.02	7.02	7.02
рН	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:

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
рН	S.U.	4.00	4.00	4.00	4.01
рН	S.U.	7.00	7.02	7.04	7.04
рН	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:



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



Client:				Georgia Power	
Project Locat	ion:			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	



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

								-03.00		
Project Number 30053438			Well ID	YGWA-	18I			Date	02/07/2023	
Project Location	n AMA AP-3	3, A, B and B'		Weathe	r(°F)					
Measuring Pt. Description	Top of Inn	ner Casing	Screen Setting (ft-bmp	69.67	Casing Diameter	(in) <sup>2</sup>		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 (f bmp)	<b>t-</b> 75	Purge Me	thod Low-Flo		Sample Method	Low-Flow  Jessica Ware	
Sample Time	12:31		Well Volumes Purged	0.19	Sample ID	YAT-YO	SWA-18I	Sampled by		
Purge Start	12:03		Gallons Purge	<b>d</b> 1.70	Replicate/ Code No.	1		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)	Temperat °C	ture Rec	
12:03:00	00:00	250	23.64	6.38	91.69		8.15	14.9	131	
12:08:00	05:00	200	23.88	5.88	92.66	1.25	3.62	16.5	140	
12:13:00	10:00	200	23.95	6.01	92.41	0.75	3.71	16.5	132	
12:18:00	15:00	200	23.99	5.96	92.68	1.02	3.75	16.5	134	
12:23:00	20:00	200	24.02	5.99	92.58	0.84	3.84	16.5	132	
12:28:00	25:00	200	24.01	6.00	92.04	1.19	3.95	16.6	131	
Constituent San	nnlad			Container			Number	ь	reservative	
RAD Chem	iipieu			1L Plastic			2			
Cations,Metals				250 mL Plastic		1		HNO3 HNO3		
Alk				250 mL Plastic			1		lone	
CI, F, SO4				250 mL Plastic			1		lone	
TDS				500 mL Plastic			1	_	lone	
Comments:	None									
Comments: Well Casing Vol		sion								
Well diameter (in	ches) = gallo	ns per foot	1 = 0.04 1.5 = 0 1.25 = 0.06 2 =		3.5 = 0.50 6 = 1.47 4 = 0.65					
Well Information	n									
Well Location	on:				Well Locked at Ar	rival:				
Condition of We	ell:			Well Locked at Departure:						
Well Completion	on: NA			Key Number To Well: NA						

**Well Information** 

Well Location:

Well Completion: NA

Condition of Well:



Updated: 2/9/2023 11:24:10 AM

								-05:00		
Project Number	30053438	3	Well ID	YGWA-	18S			Date	02/07/202	23
Project Location	n AMA AP-3	3, A, B and B'		Weathe	r(°F) 61.7 degr	ees F and Clea	ar. The wind is	blowing S/SE	at 6.9 mph	1.
Measuring Pt. Description	Top of Inn	ner Casing	Screen Setting (ft-bmp	) 29.97	Casing Diameter	(in) <sup>2</sup>		Well Casing Material	PVC	
Static Water Level (ft-bmp)	23.68		Total Depth (ft- bmp)	39.97	Water Column(i	ft) 16.29		Gallons in Well	2.65	
/IP Elevation	790.57		Pump Intake (fr bmp)	t <b>-</b> 35	Purge Me	ethod Low-Flo	w	Sample Method	Low-Flow	
Sample Time	13:48		Well Volumes Purged	0.50	Sample I	D YAT-YG	SWA-18S	Sampled by	Jessica V	√are
Purge Start	13:19		Gallons Purged	<b>d</b> 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)	Temperat °C	ture	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 San	npled			Container			Number	Р	reservativ	e
RAD Chem	•			1L Plastic			2	Н	INO3	
ations,Metals			<del></del>	250 mL Plastic	;	-	1	— <u>н</u>	INO3	
cl, F, SO4			<del></del>	250 mL Plastic	;	-	1		lone	
Alkalinity				250 mL Plastic	;	-	1		lone	
TDS			<del></del>	500 mL Plastic	;	-	1	N	lone	
Comments:	None					-				
Well Casing Vol			1 = 0.04 1.5 = 0 1.25 = 0.06 2 =		3.5 = 0.50 6 = 1.47 1 = 0.65					

Well Locked at Arrival:

Key Number To Well: NA

Well Locked at Departure:



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

Project Number 30053438			Well ID	YGWA-3	39			Date	02/07/2023
Project Location	on AMA R6 C	CR Landfill		Weather	r(°F) 68.2 degre	ees F and Clea	ar. The wind is	blowing S/SW	/ at 5.8 mph.
Measuring Pt. Description	Top of Inn	er Casing	Screen Setting (ft-bmp	58.09	Casing Diameter	(in) <sup>2</sup>		Well Casing Material	PVC
Static Water Level (ft-bmp)	17.61		Total Depth (ft- bmp)	68.59	Water Column(f	t) 50.98	50.98		8.28
MP Elevation 818.19			Pump Intake (fr bmp)	t <b>-</b> 63	Purge Me			Sample Method	Low-Flow
Sample Time 16:15			Well Volumes Purged	0.15	Sample II	YAT-YG	SWA-39	Sampled by	Jessica Ware
Purge Start 15:51			Gallons Purged	d 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)	Temperat °C	ure 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 Sa	ampled			Container			Number	Р	reservative
RAD Chem				1L Plastic			2	Н	NO3
Cations,Metals				250 mL Plastic			1		NO3
TDS				500 mL Plastic			1	N	one
Alkalinity			<del></del>	250 mL Plastic			1	N	one
CI, F, SO4				250 mL Plastic			1		one
Comments:	Missing la	bels, some ha	andwritten						
Well Casing Vo			1 = 0.04 1.5 = 0 1.25 = 0.06 2 =		3.5 = 0.50 6 = 1.47				
Well Information	on		1.20 = 0.00 2 =	0.10 5 = 0.57 4	0.00				
Well Locat					Well Locked at Ar	rival:			
Condition of W				Well Locked at Departure:					_
				Key Number To Well: NA					



Updated: 2/9/2023 11:24:11 AM

-05:00

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

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 = 0.041.5 = 0.092.5 = 0.263.5 = 0.506 = 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



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

							-	-05:00			
Project Number	30053438	3	Well ID	PZ-52D			I	Date	02/08/2	2023	
Project Location	n AMA R6 (	CCR Landfill		Weathe	r(°F)						
Measuring Pt. Description	Top of Inr	ner Casing	Screen Setting (ft-bm	p) 82	82 Casing Diameter			Well Casing Material	PVC		
Static Water Level (ft-bmp)	6.58		Total Depth (f	<b>t-</b> 92	Water Column(t	85.42		Gallons in Well	13.88		
MP Elevation	762.79		Pump Intake ( bmp)	<b>ft-</b> 87	Purge Me	ethod Low-Flo		Sample Method	Low-Fl	ow	
Sample Time	11:16		Well Volumes Purged	0.11	Sample I	<b>D</b> YAT-PZ	'-52D	Sampled by	Jessica	a Ware	
Purge Start	10:38		Gallons Purge	ed 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)	Temperat °C	ure	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 San	npled			Container			Number	P	reserva	tive	
RAD Chem				1L Plastic			2	Н	NO3		
Cations,Metals				250 mL Plastic	;	_	1	H	NO3		
Alkalinity				250 mL Plastic	;	-	1	N	one		
Cl, F, SO4				250 mL Plastic	;	-	1	N	one		
TDS			_	500 mL Plastic	;	-	1	N	one		
Comments:	None										
Well Casing Vol	ume Conver	sion									
Well diameter (in	ches) = gallo	ns per foot		0.09 2.5 = 0.26 = 0.16 3 = 0.37	3.5 = 0.50 6 = 1.47 4 = 0.65						
Well Information	n										
Well Location	on:				Well Locked at A	rrival:					
Condition of We	ell:			W	ell Locked at Depa	arture:			_		
Well Completion	on: NA				Key Number To Well: NA						



Updated: 2/9/2023 11:24:13 AM

-05:00

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

Purge End 17:34

i dige Liid	17.54								
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)
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 Location: Well Locked at Arrival:



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

05:00

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

Purge End 11:15

. 3									
Time	Total Elapsed Minutes	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  $1 = 0.04 \cdot 1.5 = 0.09 \cdot 2.5 = 0.26 \cdot 3.5 = 0.50 \cdot 6 = 1.47$ 

 $1.25 = 0.06 \ 2 = 0.16 \ 3 = 0.37 \ 4 = 0.65$ 

Vell Information		
Well Location:	Well Locked at Arrival:	
Condition of Well:	Well Locked at Departure:	
Well Completion:	NA Key Number To Well: N	A



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

							(	05:00		
Project Number	r 30053438	}	Well ID	YGWC-	23S		ı	Date	02/08	/2023
Project Location AMA AP-3, A, B and B		3, A, B and B'		Weathe	<b>r(°F)</b> 73.9 degr	ees F and Part	ly Cloudy. The	wind is blowing	ng S at	5.8 mph.
Measuring Pt. Description	Top of Inn	er Casing	Screen Setting (ft-bmp	28.61	Casing Diameter	(in) <sup>2</sup>		Well Casing Material	PVC	
Static Water Level (ft-bmp)	16.2		Total Depth (ft- bmp)	38.91	Water Column(f	ft) 22.71		Gallons in Well	3.69	
MP Elevation	764.91		Pump Intake (f bmp)	<b>t-</b> 34	Purge Me	ethod Low-Flo		Sample Method	Low-F	Flow
Sample Time	15:35		Well Volumes Purged		Sample II	D YAT-YG	SWC-23S	Sampled by	Jessi	ca Ware
Purge Start	14:58		Gallons Purge	d	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)	Temperat °C	ure	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 Sa	mpled			Container			Number	Р	reserv	ative
RAD Chem				1L Plastic			2	Н	HNO3	
Cations,Metals			<del>_</del>	250 mL Plastic	;	-	1	— <u>—</u>	NO3	
TDS			<del></del>	500 mL Plastic	;	-	1	N	lone	
Alkalinity			<del></del>	250 mL Plastic	;	1		N	lone	
Cl, F, SO4			·	250 mL Plastic	Plastic 1			N	one	
Comments:	None									
Well Casing Vo	lume Conver	sion								
Well diameter (in	nches) = gallor	ns per foot	1 = 0.04 1.5 = 0 1.25 = 0.06 2 =		3.5 = 0.50 6 = 1.47 1 = 0.65					
Well Informatio	n		,							
Well Location	on:				Well Locked at A	rrival:				
Condition of W	ell:			W	ell Locked at Depa	rture:			_	
Well Completion: NA					Key Number To Well: NA					



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

								05:00		
Project Number	30053438	3	Well ID	PZ-51				Date	02/09/2	:023
Project Location AMA R6 CCR Landfill		CCR Landfill	Weather(°F) 68.4 degre			es F and Clou	udy. The wind	is blowing S/S	S/SW at 11.4 mph.	
Measuring Pt. Description	Top of Inr	ner Casing	Screen Setting (ft-bmp	26.3	Casing Diameter	(in) <sup>2</sup>		Well Casing Material		
Static Water Level (ft-bmp)	9.75		Total Depth (ft- bmp)	36	Water Column(ft	26.25		Gallons in Well	4.27	
IP Elevation	744.3		Pump Intake (f	t- 33	Purge Met	thod Low-Flo	w	Sample Method	Low-Flo	)W
Sample Time	16:01		Well Volumes Purged	0.33	Sample ID	YAT-PZ	-51	Sampled by	Jessica	Ware
urge Start	15:08		Gallons Purge	<b>d</b> 1.40	Replicate/ Code No.	1		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)	Temperat °C	ture	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 Sar	npled			Container			Number	Preservative		
RAD Chem				1L Plastic			2		INO3	
Cations,Metals				250 mL Plastic			1		INO3	
DS					00 mL Plastic 1				lone	
Alkalinity				250 mL Plastic			1		lone	
CI, F, SO4				250 mL Plastic	; 		1		lone	
Comments:	None									
Well Casing Vol	lume Conver	rsion								
Well diameter (in	iches) = gallo	ns per foot	1 = 0.04 1.5 = 0 1.25 = 0.06 2 =		3.5 = 0.50 6 = 1.47 4 = 0.65					
Well Information	n									
Well Location	on:				Well Locked at Ar	rival:				
Condition of Well:				Well Locked at Departure:						

Well Completion: NA



Updated: 2/10/2023 10:07:35

								AM -05:00	1, 10, 2023 10.01.3
Project Number	30053438		Well ID	YGWA-	17S			Date	02/07/2023
Project Location AMA AP-3, A, B and B		B, A, B and B'		Weathe	er(°F) 48.4 degre	es F and Clea	ar. The wind is	blowing SE at	t 4.7 mph.
Measuring Pt. Description	Top of Inn	er Casing	Screen Setting (ft-bmp	29.65	Casing Diameter (	(in) <sup>2</sup>		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 (fi	t- 35	Purge Method Low-Flow		Sample Method	Low-Flow	
Sample Time	11:16		Well Volumes Purged	0.28	Sample ID	YAT-YG	SWA-17S	Sampled by	Jessica Ware
Purge Start	10:32		Gallons Purged	<b>d</b> 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)	Temperat °C	ture 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 San	npled			Container			Number	P	reservative
RAD Chem				1L Plastic			2	Н	INO3
App III/IV Metals,	Cations			250 mL Plastic	;		1	— <u> </u>	INO3
Alk				250 mL Plastic	mL Plastic 1			N	lone
CI, F, SO4				250 mL Plastic	mL Plastic 1		1		lone
TDS				500 mL Plastic	mL Plastic 1		1	N	lone
Comments:	None								
Well Casing Vol	ume Convers	sion							
Well diameter (in	ches) = gallor	ns per foot	1 = 0.04 1.5 = 0 1.25 = 0.06 2 =		3.5 = 0.50 6 = 1.47 4 = 0.65				
Well Information	1								
Well Location	n:				Well Locked at Arı	rival:			
Condition of We	 ell:			W	/ell Locked at Depart	ture:			_
Wall Completie	ΝΑ				Kov Number To V	Λ/οΠ. NIA			_

Key Number To Well: NA



Updated: 2/22/2023 10:12:44

AM -05:00

Project Number	r 30143623		Well ID	YGWA-2	211			Date	02/07/2023
Project Locatio	n AMA AP-3	3, A, B and B'		Weathe	r(°F) Sunny, 60	)'s			
Measuring Pt. Description	Top of Inn	er Casing	Screen Setting (ft-bmp	69.6	Casing Diameter	(in) <sup>2</sup>		Well Casing Material	PVC
Static Water Level (ft-bmp)	30.09		Total Depth (ft- bmp)	79.9	Water Column(f	49.81		Gallons in Well	8.09
MP Elevation	783.7		Pump Intake (f bmp)	<b>t-</b> 75	Purge Me	ethod Low-Flo		Sample Method	Low-Flow
Sample Time	12:48		Well Volumes Purged	0.10	Sample II	D YAT-YO	SWA-21I	Sampled by	Kim Lapszynski
Purge Start	12:16		Gallons Purge	<b>d</b> 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)	Temperat °C	eure 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
RAD 9315/9320	Constituent Sampled Cont  RAD 9315/9320, Alkalinity, TDS, Cations 1L PI (Na, K, Mg), App III/IV Metals, CI, F, SO4 mL P				tic, 500 mL Plastic, 250			Preservative None, HNO3	
Comments:	Delays du	e to low-flow	sampling templat	es not present	ed in the In-Situ ap	p.			
Well Casing Vo	lume Convers	sion							
Well diameter (ir	nches) = gallor	ns per foot	1 = 0.04 1.5 = 0 1.25 = 0.06 2 =		3.5 = 0.50 6 = 1.47 4 = 0.65				
Well Informatio	n								
Well Location	on:				Well Locked at A	rrival:			
Condition of W	ell:				ell Locked at Depa	rture:			_
Well Completion: NA Key Number To Well: NA						_			



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' 64.6 degrees F and Clear. The wind is blowing S at 6.9 mph Weather(°F) **Well Casing** Measuring Pt. Screen Casing PVC Top of Inner Casing 19.22 Description Setting (ft-bmp) Diameter (in) Material Total Depth (ft-Static Water Water Gallons in 29.52 3 11.03 18.49 Level (ft-bmp) bmp) Column(ft) Well Pump Intake (ft-Sample MP Elevation 767.12 24.5 Purge Method Low-Flow Low-Flow bmp) Method **Well Volumes** Sample Time 14:50 0.40 Sample ID YAT-YGWA-20S Sampled by Kim Lapszynski Purged Replicate/ **Purge Start** 14:02 **Gallons Purged** 1.19 Color Clear Code No. **Purge End** 14:48 Depth to Total pН Specific Dissolved Rate **Turbidity Temperature** Redox Water Time Elapsed (standard Conductivity Oxygen (mL/min) (NTU) (mV) Minutes (ft) units) (µS/cm) (mg/L) 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 10:00 44.99 12.10 175.06 14:12:00 100 11.54 5.95 7.73 17.0

44.87

44.82

44.72

44.71

44.68

44.64

44.62

9.60

9.14

6.80

5.85

4.84

4.99

4.77

7.67

7.69

7.70

7.72

7.70

7.69

7.69

17.0

16.8

16.6

16.5

16.5

16.6

16.7

180.48

185.67

189.85

193.66

196.27

198.45

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.

15:00

20:00

25:00

30:00

35:00

40:00

45:00

100

100

100

100

100

100

100

11.52

11.55

11.56

11.56

11.56

11.56

11.57

5.88

5.82

5.76

5.71

5.67

5.64

5.63

**Well Casing Volume Conversion** 

14:17:00

14:22:00

14:27:00

14:32:00

14:37:00

14:42:00

14:47:00

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47 Well diameter (inches) = gallons per foot

 $1.25 = 0.06 \ 2 = 0.16 \ 3 = 0.37 \ 4 = 0.65$ 

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



Updated: 2/22/2023 10:13:26

AM -05:00

								AM -05:00	
Project Numbe	er 30143623	i	Well ID	YGWA-5	5D			Date	02/07/2023
Project Location	on AMA AP-3	3, A, B and B'		Weathe	r(° <b>F)</b> 67.1 degre	ees F and Clea	ar. The wind is	blowing S at	6.9 mph.
Measuring Pt. Description	Top of Inn	ner Casing	Screen Setting (ft-bm)	p) 78.83	Casing Diameter	(in) <sup>2</sup>		Well Casing Material	PVC
Static Water Level (ft-bmp)	19.43		Total Depth (ft bmp)	129.13	Water Column(f	t) 109.7		Gallons in Well	17.83
MP Elevation	784.53		Pump Intake (i bmp)	ft- <sub>124</sub>	Purge Me	thod Low-Flo	w	Sample Method	Low-Flow
Sample Time	16:22		Well Volumes Purged	0.07	Sample II	YAT-YG	SWA-5D	Sampled by	Kim Lapszynski
Purge Start	15:59		Gallons Purge	d 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)	Tempera °C	ture 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	-122.0
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 Sa	ampled			Container			Number	F	Preservative
RAD 9315/9320, TDS, Alkalinity, App III/IV Metals, Cations(Na, K, Mg), CI, F, SO4			_	1L Plastic, 500 250mL Plastic	mL Plastic,		6	N	None, HNO3
Metals, Cations									

Well Locked at Arrival:

Key Number To Well: NA

Well Locked at Departure:

1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

**Well Information** 

Well Location:

Well Completion: NA

Condition of Well:



Updated: 2/22/2023 10:20:20

AM -05:00

Project Number	30143623	3	Well ID YGWC-38					Date	02/08/	/2023
Project Location	n AMA R6 (	CCR Landfill		Weathe	er(°F) 55.6 degre	es F and Clou	udy. The wind	is blowing SE	at 4.7 n	nph.
Measuring Pt. Description	Top of Inr	ner Casing	Screen Setting (ft-bmp	39.59	Casing Diameter	(in) <sup>2</sup>		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 (f	t- 45	Purge Me	thod Low-Flo	W	Sample Method	Low-F	low
Sample Time	le Time 09:30 Well Volumes Purged 0.17 Sample ID YAT-YGWC-38						SWC-38	Sampled by	Kim La	apszynski
Purge Start	09:09		Gallons Purge	<b>d</b> 0.53	Replicate/ Code No.	YAT-AN	IA-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)	Temperat °C	ture	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 Sar	npled			Container			Number	P	reserva	ative
RAD 9315/9320, Cations(Na, K,M				1L Plastic, 500 250mL Plastic			6	_ N	lone, HI	NO3
Comments:	None									
Well Casing Vol	ume Conver	sion								
Well diameter (in	ches) = gallo	ns per foot	1 = 0.04 1.5 = 0 1.25 = 0.06 2 =		3.5 = 0.50 6 = 1.47 4 = 0.65					
Well Information	1									
Well Location	on:				Well Locked at Ar	rival:				
Condition of We	ell:			W	ell Locked at Depar	ture:			_	
Well Completion	on: NA				Key Number To Well: NA					



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

Project Numbe	r 30143623	3	Well ID	YAMW-	5			<b>Date</b> 02/08/202		3/2023
Project Location	n AMA R6	CCR Landfill		Weathe	er(°F) 63.3 degre	ees F and Par	tly Cloudy. The	wind is blowi	ng S at	9.2 mph.
Measuring Pt. Description	Top of Ini	ner 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	0.34 Water 74.02 Column(ft)			Gallons in Well	12.03	3
MP Elevation	788.9		Pump Intake (f bmp)	t- 86.3	Purge Me	thod Low-Flo	ow .	Sample Low-Flow		Flow
Sample Time	10:58		Well Volumes Purged	0.08	Sample II	YAT-YA	MW-5	Sampled by	Kim l	_apszynski
Purge Start	10:36		Gallons Purge	<b>d</b> 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)	Tempera °C	ture	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 Sa	mpled			Container			Number	P	reserv	rative
RAD 9315/9320 Metals, Cations				1L Plastic, 500 250mL Plastic			6	N	lone, H	INO3
Comments:	None.									
Well Casing Vo	lume Conve	sion								
Well diameter (in	nches) = gallo	ns per foot	1 = 0.04 1.5 = 0 1.25 = 0.06 2 =		3.5 = 0.50 6 = 1.47 4 = 0.65					
Well Information	n									
Well Locati	on:				Well Locked at Ar	rrival:				
Condition of W	ell:			W	ell Locked at Depar	rture:			_	
Well Completi	on: NA				Key Number To	Well: NA			_	



Updated: 2/22/2023 10:21:42

AM -05:00

Project Number	30143623	3	Well ID	YGWA-		Date	02/08/2	2023		
Project Location	n AMA R6 (	CCR Landfill		Weathe	er(°F) 65.7 degre	es F and Clo	udy. The wind	is blowing S/S	W at 5.8	mph.
Measuring Pt. Description	Top of Inr	ner Casing	Screen Setting (ft-bmp	37.73	Casing Diameter	(in) <sup>2</sup>		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	Elevation 815.73 Pump Intake (ft- bmp) 42 Purge Method I							Sample Method	Low-Fl	ow
Sample Time	12:02		Well Volumes Purged	0.13	Sample ID	YAT-YO	GWA-40	Sampled by	Kim La	pszynski
Purge Start	11:40		Gallons Purge	<b>d</b> 0.53	Replicate/ Code No.	1		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)	Temperat °C	ture	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 San	npled			Container			Number	P	reserva	tive
RAD 9315/9320, Metals, Cations (				1L Plastic, 500 250mL Plastic	astic, 500mL Plastic, 6 nL Plastic 6			_ N	lone, HN	103
Comments:	Can not a	ccess well wi	th field truck. Parl	ked and walked	d equipment due to ı	muddy/deep r	uts at potential	access point.		
Well Casing Vol	ume Conver	sion								
Well diameter (in	ches) = gallo	ns per foot	1 = 0.04 1.5 = 0 1.25 = 0.06 2 =		3.5 = 0.50 6 = 1.47 4 = 0.65					
Well Information	1									
Well Locatio	n:				Well Locked at Ar	rival:				
Condition of We	ell:			W	ell Locked at Depar	ture:			_	
Well Completio	n: NA				Key Number To Well: NA					



Updated: 2/22/2023 10:22:08

AM -05:00

							,	AM -05:00	
Project Numbe	er 30143623		Well ID	YAMW-4	4		ı	Date	02/08/2023
Project Location	on AMA R6 C	CCR Landfill		Weathe	<b>r(°F)</b> 73.2 degr	ees F and Clou	udy. The wind is	3.4 mph.	
Measuring Pt. Description	Top of Inn	er Casing	Screen Setting (ft-bmp	86.59	Casing Diameter	(in) <sup>2</sup>		Well Casing Material	PVC
tatic Water evel (ft-bmp)	33.29		Total Depth (ft bmp)	96.55	Water Column(i	63.26		Gallons in Well	10.28
IP Elevation	805.59		Pump Intake (f bmp)	<b>t-</b> 91.55	Purge Me	ethod Low-Flo		Sample Method	Low-Flow
Sample Time	14:52		Well Volumes Purged	0.07	Sample II	D YAT-YA	MW-4	Sampled by	Kim Lapszynski
urge Start	14:28		Gallons Purge	<b>d</b> 0.73	Replicate Code No.		(	Color	Clear
urge 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)	Temperate °C	ure 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
				Container			Number	Pr	reservative
onstituent Sa	ampled								

**Well Casing Volume Conversion** 

Well diameter (inches) = gallons per foot  $1 = 0.04 \cdot 1.5 = 0.09 \cdot 2.5 = 0.26 \cdot 3.5 = 0.50 \cdot 6 = 1.47$ 

1 = 0.04 1.5 = 0.09 2.5 = 0.26 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



Updated: 2/22/2023 10:22:33

AM -05:00

Project Number	30143623	3623 <b>Well ID</b> YGWC-41						Date	02/08/2023	
Project Location	n AMA R6 (	CCR Landfill		Weathe	r(°F) 73.9 de	grees F and Pai	tly Cloudy. The	wind is blowir	ng S at 5.8 mph.	
Measuring Pt. Description	Top of Inr	ner Casing	Screen Setting (ft-bmp)	56.82	Casing Diamete	r (in) <sup>2</sup>		Well Casing Material	PVC	
Static Water Level (ft-bmp)	29.82		Total Depth (ft- bmp)	67.32	Water Column	Water 37.5		Gallons in Well	6.09	
MP Elevation	803.92		Pump Intake (ft bmp)	- 62	Purge N	lethod Low-Flow		Sample Method	Low-Flow	
Sample Time	ple Time 16:30 Well Volumes 0.26 Sample ID YA				ID YAT-YO	GWC-41	Sampled by	Kim Lapszynski		
Purge Start	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)	Temperat °C	ure 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 San	npled			Container			Number	Pi	reservative	
RAD 9315/9320, Metals, Cations (				1L Plastic, 500 250mL Plastic		_	6	N-	one, HNO3	
Comments:	None.									
Well Casing Vol	ume Conver	sion								
Well diameter (in	ches) = gallo	ns per foot	1 = 0.04 1.5 = 0. 1.25 = 0.06 2 = 0		3.5 = 0.50 6 = 1.4 4 = 0.65	17				
Well Information	1									
Well Location	on:				Well Locked at	Arrival:				
Condition of Well:					ell Locked at Dep	parture:			-	
Well Completion	on: NA				Key Number To Well: NA					



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), CI, F, SO4

Preservative

1L Plastic, 500mL Plastic,
250mL Plastic

Comments: None.

**Well Casing Volume Conversion** 

Well diameter (inches) = gallons per foot  $1 = 0.04 \cdot 1.5 = 0.09 \cdot 2.5 = 0.26 \cdot 3.5 = 0.50 \cdot 6 = 1.47$ 

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



Updated: 2/22/2023 10:23:26

							,	AM -05:00	
Project Numbe	r 30143623		Well ID	YGWA-4	41		1	Date	02/09/2023
Project Location	on AMA AP-3	B, A, B and B'		Weathe	r(°F) 60.1 degr	ees F and Clo	udy. The wind i	s blowing S at	10.3 mph.
Measuring Pt. Description	Top of Inn	er Casing	Screen Setting (ft-bmp	38.51	Casing Diameter	(in) <sup>2</sup>		Well Casing Material	PVC
Static Water Level (ft-bmp)	23.5		Total Depth (ft- bmp)	48.81	Water Column(f	25.31		Gallons in Well	4.11
MP Elevation	784.21		Pump Intake (f	<b>t-</b> 45	Purge Me	ethod Low-Flo		Sample Method	Low-Flow
Sample Time	09:55		Well Volumes Purged	0.18	Sample II	D YAT-YO	GWA-4I :	Sampled by	Kim Lapszynski
Purge Start	09:27		Gallons Purge	<b>d</b> 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)	Temperatu °C	re 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 Sa	mpled			Container			Number	Pro	eservative
RAD 9315/9320		ty, Cations Cl, F, SO4		1L Plastic, 500 250mL Plastic	mL Plastic,		6	No	one, HNO3

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 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

Comments:

None.

**Well Casing Volume Conversion** 



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	1	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

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	
CI, F, SO4	250 mL Plastic	1	None	

Comments: Used peri pump

**Well Casing Volume Conversion** 

Well diameter (inches) = gallons per foot  $1 = 0.04 \cdot 1.5 = 0.09 \cdot 2.5 = 0.26 \cdot 3.5 = 0.50 \cdot 6 = 1.47$ 

 $1.25 = 0.06 \ 2 = 0.16 \ 3 = 0.37 \ 4 = 0.65$ 



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 win	d 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

Constituent Sampled

Container

Number

Preservative

RAD 9315/9320, TDS, Alkalinity, App III/IV
Metals, Cations (Na, K, Mg), CI, F, SO4

Container

1L Plastic, 500mL Plastic, 500mL Plastic, 500mL Plastic, 500mL Plastic

139.25

0.80

3.98

18.3

219.63

Comments: None.

13:07:00

**Well Casing Volume Conversion** 

25:00

200

Well diameter (inches) = gallons per foot  $1 = 0.04 \cdot 1.5 = 0.09 \cdot 2.5 = 0.26 \cdot 3.5 = 0.50 \cdot 6 = 1.47$ 

10.91

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: N	A

5.67



Updated: 2/22/2023 10:32:02

AM -05:00

Well ID PZ-35 **Project Number** 30143623 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. **Well Casing** Measuring Pt. Screen Casing PVC Top of Inner Casing 38.91 Description Setting (ft-bmp) Diameter (in) Material Total Depth (ft-Gallons in Static Water Water 50.01 38.57 6.27 11.44 bmp) Level (ft-bmp) Column(ft) Well Pump Intake (ft-Sample **MP Elevation** 743.81 45 Purge Method Low-Flow Low-Flow Method bmp) **Well Volumes** Sample Time 14:48 0.19 Sample ID YAT-PZ-35 Sampled by Kim Lapszynski Purged Replicate/ **Gallons Purged Purge Start** 14:13 1.19 Color Clear Code No. **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 SampledContainerNumberPreservativeRAD 9315/9320, TDS, Alkalinity, App III/IV<br/>Metals, Cations (Ca, K, Mg), Cl, F, SO41L Plastic, 500mL Plastic,<br/>250mL Plastic6None, 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  $1 = 0.04 \cdot 1.5 = 0.09 \cdot 2.5 = 0.26 \cdot 3.5 = 0.50 \cdot 6 = 1.47$ 

1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Locked at Arrival:	
Well Locked at Departure:	
Key Number To Well:	NA
	Well Locked at Departure:



Updated: 2/22/2023 10:33:06

AM -05:00

Project Number	r 30143623		Well ID	YAMW-	1			Date	02/09	)/2023
Project Locatio	n AMA AP-3	B, A, B and B'		Weathe	r(°F)					
Measuring Pt. Description	Top of Inn	er Casing	Screen Setting (ft-bmp	59.6	Casing Diameter	(in) <sup>2</sup>		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 (fr bmp)	<b>t-</b> 64.6	Purge Me	thod Low-Flo	w	Sample Method	Low-	Flow
Sample Time	15:56		Well Volumes Purged	0.08	Sample ID	YAT-YA	MW-1	Sampled by	Kim L	.apszynski
Purge Start	15:33		Gallons Purge	<b>d</b> 0.79	Replicate/ Code No.	YAT-AM	IA-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)	Temperat °C	ture	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 Sal RAD 9315/9320 Metals, Cations	, TDS, Alkalini			Container 1L Plastic, 500 250mL Plastic	mL Plastic,		Number 12		reserv	
Comments:	None.									
Well Casing Vo	lume Conver	sion								
Well diameter (in	nches) = gallor	ns per foot	$1 = 0.04 \ 1.5 = 0$ $1.25 = 0.06 \ 2 =$		3.5 = 0.50 6 = 1.47 4 = 0.65					
Well Informatio	n									
Well Locati	on:				Well Locked at Ar	rival:				
Condition of W	ell:			W	ell Locked at Depar	ture:			_	
Well Completi	on: NA				Key Number To	Well: NA			-	

Condition of Well:

Well Completion: NA



Updated: 2/22/2023 10:33:40

AM -05:00

Project Locatio	n AMA AP-3									
		B, A, B and B'		Weathe	r(°F) 62.6 degre	ees F and Mos	tly Cloudy. Th	e wind is blow	ing S/S	SW at 8.1 mph.
Measuring Pt. Description	Top of Inn		Screen Setting (ft-bmp	) <sup>48.64</sup>	Casing Diameter	(in) <sup>2</sup>		Well Casing Material	PVC	
Static Water Level (ft-bmp)	19.06		Total Depth (ft- bmp)	58.94	Water Column(f	t) 39.88		Gallons in Well	6.48	
MP Elevation	784.54		Pump Intake (ft bmp)	53	Purge Me	thod Low-Flo	w	Sample Method	Low-	Flow
Sample Time	11:26		Well Volumes Purged	0.08	Sample II	YAT-YG	WA-5I	Sampled by	Kim L	_apszynski
Purge Start	11:03		Gallons Purged	<b>d</b> 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)	Temperat °C	ture	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 San RAD 9315/9320	, TDS, Alkalini			Container 1L Plastic, 500	mL Plastic,		Number 6		reserv	
Metals, Cations	(Na, K, Mg), C	CI, F, SO4		250mL Plastic						
Comments:	None.									
Well Casing Vo	lume Conver	sion								
Well diameter (in	nches) = gallo		1 = 0.04 1.5 = 0 1.25 = 0.06 2 =		3.5 = 0.50 6 = 1.47 = 0.65					
Well Informatio	n									
Well Locati	on:				Well Locked at Ar	rrival:				

Well Locked at Departure:

Key Number To Well: NA



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	il.	Weather(°F)	50.4 degrees F	and Drizzle. The wind	d is blowing N a	t 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						

			T			1			
Time	Total Elapsed Minutes	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 SampledContainerNumberPreservativeRAD 9315/9320, TDS, Alkalinity, App III/IV<br/>Metals, Cations (Na, K, Mg), CI, F, SO41L Plastic, 500mL Plastic,<br/>250mL Plastic6None, HNO3

Comments: None.

**Well Casing Volume Conversion** 

Well diameter (inches) = gallons per foot  $1 = 0.04 \ 1.5 = 0.09 \ 2.5 = 0.26 \ 3.5 = 0.50 \ 6 = 1.47$ 

 $1.25 = 0.06\ 2 = 0.16\ 3 = 0.37\ 4 = 0.65$ 

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



Updated: 2/22/2023 10:34:48

AM -05:00

Project Numbe	r 30143623		Well ID	YAMW-	2			Date	02/08/2023	
Project Locatio	n AMA R6 (	CCR Landfill		Weathe	r(°F)					
Measuring Pt. Description	Top of Inr	er 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(i	ft) 23.63		Gallons in 3.84		
MP Elevation	781.04		Pump Intake (ft bmp)	41.44	Purge Me	ethod Low-Flo		Sample Method	Low-Flow	
Sample Time	13:55		Well Volumes Purged	0.42	Sample I	D YAT-YA	MW-2	Sampled by	Kim Lapszynsk	.i
Purge Start	13:16		Gallons Purgeo	<b>I</b> 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)	Temperat °C	cure Red	
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 Sa RAD 9315/9320 Cations (Na, K,	<b>.</b> , TDS, Alkalini			Container 1L Plastic, 500 250mL Plastic	mL Plastic,	_	Number 6		reservative	
Comments: Well Casing Vo Well diameter (in					3.5 = 0.50 6 = 1.47	,				
Well Informatio	ın		1.25 = 0.06 2 = 0	U.16 3 = 0.37 4	1 = 0.65					
Well Locati					Well Locked at A	rrival:				
Condition of W									_	
					'ell Locked at Depa				_	
Well Completi	on: NA				Key Number To	vveii: NA			_	



Updated: 2/22/2023 10:36:08

AM -05:00

Project Number	30143608		Well ID	YGWC-4	49			Date	02/09/2023
Project Location	n AMA AP-3	3, A, B and B'		Weathe	r(°F) 68.0 degree	s F and Clo	udy. The wind	is blowing SW	at 6.9 mph.
Measuring Pt. Description	Top of Inn	er Casing	Screen Setting (ft-bmp	p) 68.03	Casing Diameter (i	n) <sup>2</sup>		Well Casing Material	PVC
Static Water Level (ft-bmp)	33.25		Total Depth (ft bmp)	78.53	Water Column(ft)	76.78		Gallons in Well	7.36
MP Elevation	782.73		Pump Intake (f	ft- 73	Purge Meth	nod Low-Flo	)W	Sample Method	Low-Flow
Sample Time	me 15:00 Well Volumes Purged		0.16	Sample ID	YAT-YO	GWC-49	Sampled by	Mark Chest	
Purge Start	14:39		Gallons Purge	e <b>d</b> 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)	Temperat °C	rure 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 San	npled			Container			Number	Р	reservative
RAD Chem				1L Plastic			2	Н	NO3
ations ,Metals			<u> </u>	250 mL Plastic	;		1	— <u> </u>	NO3
DS			<u> </u>	500 mL Plastic	;		1	N	one
lkalinity			<u> </u>	250 mL Plastic	;		1	N	one
il, F, SO4			_	500 mL Plastic	;		1	N	one
Comments:	Good								
Well Casing Vol	ume Convers	sion							
Vell diameter (in	ches) = gallor	ns per foot		0.09 2.5 = 0.26 3 0.16 3 = 0.37 4	3.5 = 0.50 6 = 1.47 4 = 0.65				
Vell Information	1								
Well Locatio	n:				Well Locked at Arri	val:			
Condition of We	ell:				ell Locked at Departu	ure:			_



Proje	ct Location:	AMA AP-3, A, B and B'			
Perm	nit Number:				
	Well ID:	YGWA-6I			
Perso	on Gauging:	Kim Lapszynski			
		2/6/2023			
	Time:	09:01:00			
			Yes	No	N/A
1	Location Ide	entification:			
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?		$\square$	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?			
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?		$\overline{\checkmark}$	
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	$\square$		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	$\square$		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?			
4	Internal Casi				
	а	Does the cap prevent entry of foreign material into the well?	$\square$		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	$\square$		
	С	Is the well properly vented for equilibration of air pressure?	$\square$		
	d	Is the survey point clearly marked on the inner casing?			
	e	Is the depth of the well consistent with the original well log?	$\square$		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?		$\overline{\checkmark}$	
6		our professional judgement, is the well construction / location:			
	- , , -	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	$\square$		
		and 2) comply with the applicable regulatory requirements?	<u></u>		
7	Corrective a	ctions as needed, by date:			-
,	corrective a	each as needed, by dute.			
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AMA AP-3, A, B and B'	_		
Perm	nit Number:		_		
		YGWA-6S	-		
Perso		Kim Lapszynski	-		
		2/6/2023	-		
	Time:	09:08:00	V	NI.	NI/A
1	l osation Ido	ntification.	Yes	No	N/A
ı	Location Ide	Is the well visible and accessible?			
	a				
	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?		Ø	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	V		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?		V	
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	V		
	С	Is the well pad in complete contact with the protective casing?	V		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	V		
	е	Is the pad surface clean (not covered with sediment or debris)?	v		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	v		
	d	Is the survey point clearly marked on the inner casing?	V		
	е	Is the depth of the well consistent with the original well log?	Ø		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	$\square$		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑		
	С	Does the well require redevelopment (low flow, turbid)?		$\overline{\square}$	
6	Based on vo	ur professional judgement, is the well construction / location:			
	, , ,	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	V		
		and 2) comply with the applicable regulatory requirements?	V		
7	Corrective a	ctions as needed, by date:			
•					
8	Date by whe	en corrective actions are needed:			



		AMA AD 2 A D I DI	T		
		AMA AP-3, A, B and B'	1		
Perm	nit Number: Well ID:	P7-06D	1		
Dorse		Kim Lapszynski	1		
reisc		2/6/2023	1		
		09:09:00	1		
			Yes	No	N/A
1	Location Ide	entification:			-
	a	Is the well visible and accessible?	$\square$		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	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)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	$\square$		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?		$\square$	
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑		
3	Surface Pad				
	а	Is the well pad in good condition (not cracked or broken)?	☑		
	b	Is the well pad sloped away from the protective casing?	☑		
	С	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)	V		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Cas	ing			
	а	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)?	☑		
	С	Is the well properly vented for equilibration of air pressure?	☑		
	d	Is the survey point clearly marked on the inner casing?	Ø		
	е	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	а	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?		Ø	
6	Based on yo	ur 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?	Ø		
7	Corrective a	ctions as needed, by date:			
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AMA AP-3, A, B and B'			
Pern	nit Number:		1		
	Well ID:	YGWA-20S	1		
Perso	on Gauging:	Kim Lapszynski	]		
	Date:	2/6/2023			
	Time:	09:22:00			
			Yes	No	N/A
1	Location Ide	entification:			
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	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)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	V		
3	Surface Pad				
	а	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	V		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	V		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	V		
	е	Is the depth of the well consistent with the original well log?	V		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	Ø		
5	Sampling: G	roundwater Wells Only:			
	а	Does well recharge adequately when purged?	V		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	v		
	С	Does the well require redevelopment (low flow, turbid)?			
6	Based on yo	our professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	V		
		and 2) comply with the applicable regulatory requirements?	V		
7	Corrective a	ctions as needed, by date:			
•		. ,			
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AMA AP-3, A, B and B'			
Pern	nit Number:				
	Well ID:	YGWA-21I			
Perso	on Gauging:	Kim Lapszynski			
		2/6/2023			
	Time:	09:29:00			
			Yes	No	N/A
1	Location Ide	entification:			
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?	$\square$		
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	а	Is the protective casing free from apparent damage and able to be secured?	$\square$		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	$\square$		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	$\square$		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	$\square$		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	$\square$		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	$\square$		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?			
	е	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	а	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?		V	
6	Based on yo	our professional judgement, is the well construction / location:			
	-	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			
		,			
	Date la 1				
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AMA AP-3, A, B and B'			
Pern	nit Number:				
	Well ID:	YGWA-5D			
Perso	on Gauging:	Kim Lapszynski			
		2/6/2023			
	Time:	09:38:00			
			Yes	No	N/A
1	Location Ide	entification:			
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?		$\square$	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	$\square$		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	$\square$		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	$\square$		
	b	Is the well pad sloped away from the protective casing?	$\square$		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?			
4	Internal Casi	ing			
	а	Does the cap prevent entry of foreign material into the well?	$\square$		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	$\square$		
	С	Is the well properly vented for equilibration of air pressure?	$\square$		
	d	Is the survey point clearly marked on the inner casing?			
	e	Is the depth of the well consistent with the original well log?	$\square$		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?		$\overline{\checkmark}$	
6		ur professional judgement, is the well construction / location:			
_	- , , -	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	$\square$		
		and 2) comply with the applicable regulatory requirements?	<u></u>		
7	Corrective a	ctions as needed, by date:			-
,	corrective a	enons as necacu, by dute.			
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AMA AP-3, A, B and B'			
	nit Number:				
	Well ID:	YGWA-5I			
Perso	on Gauging:	Kim Lapszynski	]		
	Date:	2/6/2023			
	Time:	09:40:00			
			Yes	No	N/A
1	Location Ide	ntification:			
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?		Ø	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	Ø		
	е	Is the depth of the well consistent with the original well log?	Ø		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?		Ø	
6	Based on yo	ur professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AMA AP-3, A, B and B'	_		
Perm	nit Number:		-		
	Well ID:		-		
Perso		Kim Lapszynski	_		
		2/6/2023	-		
	Time:	09:41:00	.,		N 1 / A
4			Yes	No	N/A
ı	Location Ide			_	_
	a	Is the well visible and accessible?			
	b	Is the well properly identified with the correct well ID?	<u> </u>		
	C	Is the well in a high traffic area and does the well require protection from traffic?		Ø	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	☑		
	С	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?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	$\square$		
	С	Is the well pad in complete contact with the protective casing?	V		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	V		
	е	Is the pad surface clean (not covered with sediment or debris)?	v		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	v		
	d	Is the survey point clearly marked on the inner casing?	V		
	е	Is the depth of the well consistent with the original well log?	Ø		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	$\square$		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑		
	С	Does the well require redevelopment (low flow, turbid)?		$\overline{\square}$	
6	Based on yo	ur professional judgement, is the well construction / location:			
	, , ,	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	V		
		and 2) comply with the applicable regulatory requirements?	V		
7	Corrective a	ctions as needed, by date:			
•					
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AMA AP-3, A, B and B'	_		
Perm	nit Number:		-		
	Well ID:		-		
Perso		Kim Lapszynski	_		
		2/6/2023	-		
	Time:	09:49:00	.,		N 1 / A
4			Yes	No	N/A
ı	Location Ide			_	_
	a	Is the well visible and accessible?			
	b	Is the well properly identified with the correct well ID?	<u> </u>		
	C	Is the well in a high traffic area and does the well require protection from traffic?		Ø	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	v		
	С	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?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	$\square$		
	С	Is the well pad in complete contact with the protective casing?	V		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	V		
	е	Is the pad surface clean (not covered with sediment or debris)?	v		
4	Internal Casi	ng			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	v		
	d	Is the survey point clearly marked on the inner casing?	V		
	e	Is the depth of the well consistent with the original well log?	Ø		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	$\square$		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑		
	С	Does the well require redevelopment (low flow, turbid)?		$\overline{\square}$	
6	Based on yo	ur professional judgement, is the well construction / location:			
	, , ,	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	V		
		and 2) comply with the applicable regulatory requirements?	V		
7	Corrective a	ctions as needed, by date:			
•					
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AMA AP-3, A, B and B'			
Pern	nit Number:				
	Well ID:	PZ-04S			
Perso	on Gauging:	Kim Lapszynski			
		2/6/2023			
	Time:	09:50:00			
			Yes	No	N/A
1	Location Ide	entification:			
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?		$\square$	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	а	Is the protective casing free from apparent damage and able to be secured?	$\square$		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	$\square$		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	$\square$		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	$\square$		
4	Internal Casi	· ·			
	а	Does the cap prevent entry of foreign material into the well?	$\square$		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	$\square$		
	С	Is the well properly vented for equilibration of air pressure?	$\square$		
	d	Is the survey point clearly marked on the inner casing?			
	e	Is the depth of the well consistent with the original well log?	$\square$		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?		$\overline{\checkmark}$	
6		ur professional judgement, is the well construction / location:			
_	- , , -	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	<u></u>		
7	Corrective a	ctions as needed, by date:			-
,	Corrective a	enons as necaca, by aute.			
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AMA AP-3, A, B and B'	1		
Perm	nit Number:		_		
	Well ID:		-		
Perso		Kim Lapszynski	_		
		2/6/2023	-		
	Time:	10:05:00		NI.	N 1 / A
	La sada a tala	and Constitution and	Yes	No	N/A
ı	Location Ide			_	
	a	Is the well visible and accessible?			
	b	Is the well properly identified with the correct well ID?		_	
	С	Is the well in a high traffic area and does the well require protection from traffic?		Ø	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	$\overline{\mathbf{A}}$		
	С	Does the casing have a functioning weep hole?	$\square$		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	V		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	V		
	b	Is the well pad sloped away from the protective casing?	V		
	С	Is the well pad in complete contact with the protective casing?	V		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Cas	· ·			
	a	Does the cap prevent entry of foreign material into the well?	V		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	V		
	С	Is the well properly vented for equilibration of air pressure?	<b>V</b>		
	d	Is the survey point clearly marked on the inner casing?	Ø		
	e	Is the depth of the well consistent with the original well log?	Ø		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand			
		due to lack of grout or use of slip couplings in construction)	Ø		
5	Sampling: G	roundwater Wells Only:			
	а	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?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?		Ø	
6	Based on yo	our professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	$\square$		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			
	Needs brush	n clearing.			
0	Date by what	on corrective actions are needed:			
ð	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AMA AP-3, A, B and B'	_		
Perm	nit Number:		-		
		YGWA-18S	-		
Perso		Kim Lapszynski	-		
		2/6/2023	-		
	Time:	10:17:00	V	NI.	NI/A
1	l osation Ido	ntification.	Yes	No	N/A
ı	Location Ide				
	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?		Ø	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	V		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	V		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	V		
	С	Is the well pad in complete contact with the protective casing?	V		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	V		
	е	Is the pad surface clean (not covered with sediment or debris)?	v		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	V		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	V		
	С	Is the well properly vented for equilibration of air pressure?	$\overline{\mathbf{V}}$		
	d	Is the survey point clearly marked on the inner casing?	Ø		
	е	Is the depth of the well consistent with the original well log?	Ø		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	$\square$		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑		
	С	Does the well require redevelopment (low flow, turbid)?		$\overline{\square}$	
6	Based on vo	ur 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 a	ctions as needed, by date:			
•					
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AMA AP-3, A, B and B'	_		
Perm	nit Number:		-		
		YGWA-18I	-		
Perso		Kim Lapszynski	-		
		2/6/2023	-		
	Time:	10:18:00	V	NI.	NI/A
1	Location Ido	atification.	Yes	No	N/A
ı	Location Ide				
	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?		Ø	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	V		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	V		
	b	Is the well pad sloped away from the protective casing?	V		
	С	Is the well pad in complete contact with the protective casing?	V		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	V		
	е	Is the pad surface clean (not covered with sediment or debris)?	v		
4	Internal Casi	ng			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	v		
	d	Is the survey point clearly marked on the inner casing?	V		
	e	Is the depth of the well consistent with the original well log?	Ø		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	$\square$		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑		
	С	Does the well require redevelopment (low flow, turbid)?		$\overline{\square}$	
6	Based on vo	ur professional judgement, is the well construction / location:			
	<b>,</b> , ,	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	V		
		and 2) comply with the applicable regulatory requirements?	$\overline{\mathbf{V}}$		
7	Corrective a	ctions as needed, by date:			
•	Jon Collive di	and the course of the course o			
8	Date by whe	en corrective actions are needed:			



		AMA AP-3, A, B and B'			
Perm	nit Number:				
		YGWA-17S	-		
Perso		Kim Lapszynski	_		
		2/6/2023	-		
	Time:	10:41:00	\		N 1 / A
			Yes	No	N/A
ı	Location Ide			_	_
	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?		Ø	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	V		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	$\square$		
	b	Is the well pad sloped away from the protective casing?	$\square$		
	С	Is the well pad in complete contact with the protective casing?	$\overline{\mathbf{V}}$		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	$\square$		
	е	Is the pad surface clean (not covered with sediment or debris)?	V		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	V		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?			
	С	Is the well properly vented for equilibration of air pressure?	$\overline{\mathbf{V}}$		
	d	Is the survey point clearly marked on the inner casing?	V		
	e	Is the depth of the well consistent with the original well log?	$\overline{\mathbf{A}}$		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	$\square$		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	$\square$		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	$\square$		
	С	Does the well require redevelopment (low flow, turbid)?		$\overline{\mathbf{Q}}$	
6		ur professional judgement, is the well construction / location:			
	- ,-	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	$\overline{\mathbf{V}}$		
		and 2) comply with the applicable regulatory requirements?	$\overline{\mathbf{V}}$		
7	Corrective a	ctions as needed, by date:			
,	Jon Court di	cases as notation by dute.			
8	Date by whe	en corrective actions are needed:			



		AMA R6 CCR Landfill	1		
Perm	nit Number:		-		
	Well ID:		-		
Perso		Kim Lapszynski	_		
		2/6/2023	-		
	Time:	11:25:00	.,		N 1 / A
4			Yes	No	N/A
ı	Location Ide			_	_
	a	Is the well visible and accessible?			
	b	Is the well properly identified with the correct well ID?	<u> </u>		
	C	Is the well in a high traffic area and does the well require protection from traffic?		Ø	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	☑		
	С	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?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	$\square$		
	С	Is the well pad in complete contact with the protective casing?	V		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	V		
	е	Is the pad surface clean (not covered with sediment or debris)?	v		
4	Internal Casi	ng			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	v		
	d	Is the survey point clearly marked on the inner casing?	V		
	е	Is the depth of the well consistent with the original well log?	V		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	$\square$		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑		
	С	Does the well require redevelopment (low flow, turbid)?		$\overline{\square}$	
6	Based on yo	ur professional judgement, is the well construction / location:			
	, , ,	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	V		
		and 2) comply with the applicable regulatory requirements?	V		
7	Corrective a	ctions as needed, by date:			
•					
8	Date by whe	en corrective actions are needed:			



		AMA R6 CCR Landfill	1		
Perm	nit Number:		-		
		YGWC-42	-		
Perso		Kim Lapszynski	_		
		2/6/2023	-		
	Time:	11:30:00	.,		N 1 / A
4			Yes	No	N/A
ı	Location Ide			_	_
	a	Is the well visible and accessible?			
	b	Is the well properly identified with the correct well ID?	<u> </u>		
	C	Is the well in a high traffic area and does the well require protection from traffic?		Ø	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	V		
	С	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?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	V		
	С	Is the well pad in complete contact with the protective casing?	V		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	V		
	е	Is the pad surface clean (not covered with sediment or debris)?	v		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	v		
	d	Is the survey point clearly marked on the inner casing?	V		
	е	Is the depth of the well consistent with the original well log?	Ø		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	$\square$		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	V		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑		
	С	Does the well require redevelopment (low flow, turbid)?		$\overline{\square}$	
6	Based on yo	ur professional judgement, is the well construction / location:			
	, , ,	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	V		
		and 2) comply with the applicable regulatory requirements?	V		
7	Corrective a	ctions as needed, by date:			
•					
8	Date by whe	en corrective actions are needed:			



			1		
		AMA R6 CCR Landfill	-		
Perm	nit Number:		_		
	Well ID:		-		
Perso		Kim Lapszynski	-		
		2/6/2023	-		
	i ime:	11:37:00	Voc	No	NI/A
1	Location Ide	ntification.	Yes	INO	N/A
'					П
	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?		$\square$	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	V		
	b	Is the casing free of degradation or deterioration?	V		
	С	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?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	V		
	b	Is the well pad sloped away from the protective casing?	V		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	V		
4	Internal Cas	ing			
	a	Does the cap prevent entry of foreign material into the well?	V		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	V		
	С	Is the well properly vented for equilibration of air pressure?	V		
	d	Is the survey point clearly marked on the inner casing?	Ø		
	е	Is the depth of the well consistent with the original well log?	$\square$		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	$\square$		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	V		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	V		
	С	Does the well require redevelopment (low flow, turbid)?			
6	Based on yo	our professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	$\square$		
		and 2) comply with the applicable regulatory requirements?	$\square$		
7	Corrective a	ctions as needed, by date:			
-		. ,			
8	Date by whe	en corrective actions are needed:			



		AMA R6 CCR Landfill	1		
Perm	nit Number:		-		
	Well ID:		-		
Perso		Kim Lapszynski	_		
		2/6/2023	-		
	Time:	11:42:00	.,		N 1 / A
4			Yes	No	N/A
1	Location Ide			_	_
	a	Is the well visible and accessible?			
	b	Is the well properly identified with the correct well ID?	<u> </u>		
	C	Is the well in a high traffic area and does the well require protection from traffic?		Ø	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	v		
	С	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?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	V		
	С	Is the well pad in complete contact with the protective casing?	V		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	V		
	е	Is the pad surface clean (not covered with sediment or debris)?	v		
4	Internal Casi	ng			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	v		
	d	Is the survey point clearly marked on the inner casing?	V		
	е	Is the depth of the well consistent with the original well log?	V		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	$\square$		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑		
	С	Does the well require redevelopment (low flow, turbid)?		$\overline{\square}$	
6	Based on yo	ur professional judgement, is the well construction / location:			
	, , ,	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	V		
		and 2) comply with the applicable regulatory requirements?	V		
7	Corrective a	ctions as needed, by date:			
•					
8	Date by whe	en corrective actions are needed:			



			1		
Proje	ct Location:	AMA R6 CCR Landfill			
Perm	nit Number:		-		
	Well ID:		-		
Perso		Kim Lapszynski	-		
		2/6/2023	-		
	Time:	11:45:00	\		N 1 / A
4			Yes	No	N/A
1	Location Ide		_		
	а	Is the well visible and accessible?	☑		
	b	Is the well properly identified with the correct well ID?	☑		
	С	Is the well in a high traffic area and does the well require protection from traffic?		V	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	V		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	V		
	b	Is the casing free of degradation or deterioration?	$\overline{\mathbf{A}}$		
	С	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)?	V		
	b	Is the well pad sloped away from the protective casing?	V		
	С	Is the well pad in complete contact with the protective casing?	V		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	V		
	е	Is the pad surface clean (not covered with sediment or debris)?	$\overline{\mathbf{V}}$		
4	Internal Cas	ing			
	a	Does the cap prevent entry of foreign material into the well?	$\overline{\mathbf{V}}$		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	$\overline{\mathbf{v}}$		
	С	Is the well properly vented for equilibration of air pressure?	$\overline{\mathbf{V}}$		
	d	Is the survey point clearly marked on the inner casing?			
	е	Is the depth of the well consistent with the original well log?	$\overline{\mathbf{V}}$		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	$\square$		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	$\overline{\mathbf{V}}$		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?		$\overline{\mathbf{V}}$	
6	Based on yo	ur professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	V		
		and 2) comply with the applicable regulatory requirements?	V		
7	Corrective a	ctions as needed, by date:			
-		. ,			
8	Date by whe	en corrective actions are needed:			



		AMA DC CCD Law JCII			
		AMA R6 CCR Landfill	-		
Perm	nit Number:	YGWA-40	1		
Dorse		Kim Lapszynski	1		
reisc		2/6/2023	1		
		11:51:00			
			Yes	No	N/A
1	Location Ide	entification:			-
	а	Is the well visible and accessible?	$\overline{\mathbf{A}}$		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	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)	Ø		
2	Protective C	asing:			
	а	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	V		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	а	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	V		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Cas	ing			
	а	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	Ø		
	е	Is the depth of the well consistent with the original well log?	Ø		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	V		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?		V	
6	Based on yo	ur professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	V		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			
8	Date by whe	en corrective actions are needed:			



		AMA R6 CCR Landfill	1		
Perm	nit Number:		-		
	Well ID:		-		
Perso		Kim Lapszynski	_		
		2/6/2023	-		
	Time:	11:57:00	.,		N 1 / A
			Yes	No	N/A
ı	Location Ide			_	_
	a	Is the well visible and accessible?			
	b	Is the well properly identified with the correct well ID?	<u> </u>		
	C	Is the well in a high traffic area and does the well require protection from traffic?		Ø	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	v		
	С	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?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	V		
	С	Is the well pad in complete contact with the protective casing?	V		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	V		
	е	Is the pad surface clean (not covered with sediment or debris)?	v		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	v		
	d	Is the survey point clearly marked on the inner casing?	V		
	е	Is the depth of the well consistent with the original well log?	V		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	$\square$		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑		
	С	Does the well require redevelopment (low flow, turbid)?		$\overline{\square}$	
6	Based on yo	ur professional judgement, is the well construction / location:			
	, , ,	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	V		
		and 2) comply with the applicable regulatory requirements?	V		
7	Corrective a	ctions as needed, by date:			
,					
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AMA AP-3, A, B and B'	_		
Perm	nit Number:		-		
	Well ID:		-		
Perso		Kim Lapszynski	_		
		2/6/2023	-		
	Time:	12:04:00	.,		N 1 / A
4			Yes	No	N/A
ı	Location Ide			_	_
	a	Is the well visible and accessible?			
	b	Is the well properly identified with the correct well ID?	<u> </u>		
	C	Is the well in a high traffic area and does the well require protection from traffic?		Ø	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	V		
	С	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?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	$\square$		
	С	Is the well pad in complete contact with the protective casing?	V		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	V		
	е	Is the pad surface clean (not covered with sediment or debris)?	v		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	v		
	d	Is the survey point clearly marked on the inner casing?	V		
	е	Is the depth of the well consistent with the original well log?	V		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	$\square$		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑		
	С	Does the well require redevelopment (low flow, turbid)?		$\overline{\square}$	
6	Based on yo	ur professional judgement, is the well construction / location:			
	, , ,	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	V		
		and 2) comply with the applicable regulatory requirements?	V		
7	Corrective a	ctions as needed, by date:			
•					
8	Date by whe	en corrective actions are needed:			



	-4 1 4	AMA DC CCD Landfill			
	ct Location: nit Number:	AMA R6 CCR Landfill	1		
Perii	Well ID:	P7-53D	1		
Perso		Kim Lapszynski	1		
. 0.50		2/6/2023	1		
		12:07:00	1		
			Yes	No	N/A
1	Location Ide	entification:			
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?		$\overline{\mathbf{V}}$	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	а	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	V		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	ing			
	а	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	Ø		
	е	Is the depth of the well consistent with the original well log?	Ø		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	V		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?		V	
6	Based on yo	ur professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AMA R6 CCR Landfill			
Perm	nit Number:				
	Well ID:	PZ-52D			
Perso	on Gauging:	Kim Lapszynski			
		2/6/2023			
	Time:	12:05:00			
			Yes	No	N/A
1	Location Ide	ntification:			
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?		$\square$	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?			
	е	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?		V	
6	Based on yo	ur professional judgement, is the well construction / location:			
	-	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			
		·			
	Date la	no powerative potions are wooded.			
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AMA AP-3, A, B and B'			
Pern	nit Number:		1		
	Well ID:	YGWC-23S	1		
Perso	on Gauging:	Kim Lapszynski	]		
	Date:	2/6/2023			
	Time:	12:16:00			
			Yes	No	N/A
1	Location Ide	entification:			
	а	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	V		
	С	Is the well in a high traffic area and does the well require protection from traffic?		Ø	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	V		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	а	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	V		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	V		
	е	Is the depth of the well consistent with the original well log?	Ø		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	Ø		
5	Sampling: G	roundwater Wells Only:			
	а	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?		Ø	
6	Based on yo	our professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	V		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			
8	Date by whe	en corrective actions are needed:			



		AMA R6 CCR Landfill	1		
Perm	nit Number:		-		
	Well ID:		-		
Perso		Kim Lapszynski	_		
		2/6/2023	-		
	Time:	12:22:00	.,		N 1 / A
4			Yes	No	N/A
ı	Location Ide			_	_
	a	Is the well visible and accessible?			
	b	Is the well properly identified with the correct well ID?	<u> </u>		
	C	Is the well in a high traffic area and does the well require protection from traffic?		Ø	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	v		
	С	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?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	V		
	С	Is the well pad in complete contact with the protective casing?	V		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	V		
	е	Is the pad surface clean (not covered with sediment or debris)?	v		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	v		
	d	Is the survey point clearly marked on the inner casing?	V		
	е	Is the depth of the well consistent with the original well log?	Ø		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	$\square$		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	V		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑		
	С	Does the well require redevelopment (low flow, turbid)?		$\overline{\square}$	
6	Based on yo	ur professional judgement, is the well construction / location:			
	, , ,	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	V		
		and 2) comply with the applicable regulatory requirements?	V		
7	Corrective a	ctions as needed, by date:			
•					
8	Date by whe	en corrective actions are needed:			



		AMA R6 CCR Landfill	1		
Perm	nit Number:		-		
		YGWC-38	-		
Perso		Kim Lapszynski	_		
		2/6/2023	-		
	Time:	12:25:00	.,		N 1 / A
4			Yes	No	N/A
ı	Location Ide			_	_
	a	Is the well visible and accessible?			
	b	Is the well properly identified with the correct well ID?	<u> </u>		
	C	Is the well in a high traffic area and does the well require protection from traffic?		Ø	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	☑		
	С	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?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?			
	С	Is the well pad in complete contact with the protective casing?	V		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	V		
	е	Is the pad surface clean (not covered with sediment or debris)?	v		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	v		
	d	Is the survey point clearly marked on the inner casing?	V		
	е	Is the depth of the well consistent with the original well log?	Ø		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	$\square$		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑		
	С	Does the well require redevelopment (low flow, turbid)?		$\overline{\square}$	
6	Based on yo	ur professional judgement, is the well construction / location:			
	, , ,	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	V		
		and 2) comply with the applicable regulatory requirements?	V		
7	Corrective a	ctions as needed, by date:			
•					
8	Date by whe	en corrective actions are needed:			



		AMA R6 CCR Landfill	1		
Perm	nit Number:		-		
		YGWA-39	-		
Perso		Kim Lapszynski	_		
		2/6/2023	-		
	Time:	12:35:00	.,		N 1 / A
4			Yes	No	N/A
ı	Location Ide			_	_
	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?		Ø	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	v		
	С	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?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	V		
	С	Is the well pad in complete contact with the protective casing?	V		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	V		
	е	Is the pad surface clean (not covered with sediment or debris)?	v		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	v		
	d	Is the survey point clearly marked on the inner casing?	V		
	е	Is the depth of the well consistent with the original well log?	V		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	$\square$		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑		
	С	Does the well require redevelopment (low flow, turbid)?		$\overline{\square}$	
6	Based on yo	ur professional judgement, is the well construction / location:			
	, , ,	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	V		
		and 2) comply with the applicable regulatory requirements?	V		
7	Corrective a	ctions as needed, by date:			
•					
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AMA R6 CCR Landfill			
	nit Number:				
	Well ID:	YGWC-43			
Perso	n Gauging:	Kim Lapszynski			
	Date:	2/6/2023			
	Time:	12:42:00	ļ		
			Yes	No	N/A
1	Location Ide	entification:			
	a	Is the well visible and accessible?	$\square$		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?		V	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	$\square$		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	$\square$		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	$\square$		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	$\square$		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	Ø		
	е	Is the depth of the well consistent with the original well log?	Ø		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?		V	
6	Based on yo	our 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?	<b>V</b>		
7	Corrective a	ctions as needed, by date:			
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AMA R6 CCR Landfill			
Perm	nit Number:				
	Well ID:	PZ-51			
Perso	n Gauging:	Kim Lapszynski			
		2/6/2023			
	Time:	12:45:00			
			Yes	No	N/A
1	Location Ide	entification:			
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?		$\overline{\mathbf{Q}}$	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?			
	е	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?		V	
6	Based on yo	ur professional judgement, is the well construction / location:			
	-	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			
		•			
	Data !				
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AMA AP-3, A, B and B'			
	nit Number:		1		
Well ID:		PZ-35			
Perso	n Gauging:	Kim Lapszynski			
	Date:	2/6/2023			
	Time:	12:52:00	ļ		
			Yes	No	N/A
1	Location Ide	ntification:			
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	$\square$		
	С	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)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	$\square$		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	а	Is the well pad in good condition (not cracked or broken)?	$\overline{\mathbf{Q}}$		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	$\square$		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by			
		erosion, animal burrows, and does not move when stepped on)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	☑		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	$\square$		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	$\square$		
	е	Is the depth of the well consistent with the original well log?	$\square$		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	$\square$		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?		$\overline{\checkmark}$	
6	Based on yo	our professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	$\square$		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			
	Date la				
ď	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AMA AP-3, A, B and B'	_		
Perm	nit Number:		-		
	Well ID:		-		
Perso		Kim Lapszynski	_		
		2/6/2023	-		
	Time:	12:54:00	.,		N 1 / A
4			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?	<u> </u>		
	C	Is the well in a high traffic area and does the well require protection from traffic?		Ø	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	☑		
	С	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?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	$\square$		
	С	Is the well pad in complete contact with the protective casing?	V		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	V		
	е	Is the pad surface clean (not covered with sediment or debris)?	v		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	v		
	d	Is the survey point clearly marked on the inner casing?	V		
	е	Is the depth of the well consistent with the original well log?	V		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	$\square$		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑		
	С	Does the well require redevelopment (low flow, turbid)?		$\overline{\square}$	
6	Based on yo	ur professional judgement, is the well construction / location:			
	, , ,	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	V		
		and 2) comply with the applicable regulatory requirements?	V		
7	Corrective a	ctions as needed, by date:			
•					
8	Date by whe	en corrective actions are needed:			



		AMA R6 CCR Landfill	1		
Perm	nit Number:		-		
		YGWC-36A	-		
Perso		Kim Lapszynski	_		
		2/6/2023	-		
	Time:	12:58:00	.,		N 1 / A
4			Yes	No	N/A
ı	Location Identification:				
	a	Is the well visible and accessible?			
	b	Is the well properly identified with the correct well ID?	<u> </u>		
	C	Is the well in a high traffic area and does the well require protection from traffic?		Ø	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	☑		
	С	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?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	V		
	С	Is the well pad in complete contact with the protective casing?	V		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	V		
	е	Is the pad surface clean (not covered with sediment or debris)?	v		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	v		
	d	Is the survey point clearly marked on the inner casing?	V		
	е	Is the depth of the well consistent with the original well log?	Ø		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	$\square$		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑		
	С	Does the well require redevelopment (low flow, turbid)?		$\overline{\square}$	
6	Based on yo	ur professional judgement, is the well construction / location:			
	, , ,	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	V		
		and 2) comply with the applicable regulatory requirements?	V		
7	Corrective a	ctions as needed, by date:			
•					
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AMA AP-3, A, B and B'	_		
Perm	nit Number:		_		
		YGWC-24SB	-		
Perso		Kim Lapszynski	-		
		2/6/2023	-		
	Time:	13:05:00	V	NI.	N1 / A
4	La sada a lala		Yes	No	N/A
ı	Location Ide				_
	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?		Ø	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	☑		
	b	Is the casing free of degradation or deterioration?	Ø		
С		Does the casing have a functioning weep hole?	$\square$		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	$\square$		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	V		
	b	Is the well pad sloped away from the protective casing?	$\square$		
	С	Is the well pad in complete contact with the protective casing?	$\square$		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	$\square$		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	$\square$		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	$\square$		
	d	Is the survey point clearly marked on the inner casing?	$\square$		
	е	Is the depth of the well consistent with the original well log?	$\square$		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	$\square$		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	$\square$		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?		V	
6	Based on yo	ur professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			
-		. ,			
8	Date by whe	en corrective actions are needed:			



	-4 1 4*	AMA AD 2 A B and B!			
	ct Location: nit Number:	AMA AP-3, A, B and B'	1		
Perii	Well ID:	P7-24IR	1		
Perso		Kim Lapszynski	1		
. 0.50		2/6/2023	1		
		13:02:00	1		
			Yes	No	N/A
1	Location Ide	ntification:			
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?		$\overline{\mathbf{V}}$	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Cas	ing			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	Ø		
	е	Is the depth of the well consistent with the original well log?	V		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	V		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?		V	
6	Based on yo	ur professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AMA AP-3, A, B and B'	_		
Perm	nit Number:		-		
		YGWC-49	-		
Perso		Kim Lapszynski	-		
		2/6/2023	-		
	Time:	13:20:00	V	NI.	NI/A
1	l+:   -  -		Yes	No	N/A
'	Location Ide				
	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?		Ø	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	V		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	V		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	V		
	С	Is the well pad in complete contact with the protective casing?	V		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	V		
	е	Is the pad surface clean (not covered with sediment or debris)?	v		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	V		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	v		
	d	Is the survey point clearly marked on the inner casing?	V		
	е	Is the depth of the well consistent with the original well log?	Ø		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	$\square$		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑		
	С	Does the well require redevelopment (low flow, turbid)?		$\overline{\square}$	
6	Based on yo	ur professional judgement, is the well construction / location:			
	, , ,	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	V		
		and 2) comply with the applicable regulatory requirements?	V		
7	Corrective a	ctions as needed, by date:			
•	Jon Court di	cases as notation by dute.			
8	Date by whe	en corrective actions are needed:			

# **Upgradient Wells**

Well Completion: NA



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

								-05:00		
Project Number	30052922		Well ID	YGWA-	11			Date	02/07/2023	
Project Location	AP-2			Weathe	r(°F) Clear 51 F	=				
Measuring Pt. Description	Top of Inn	er Casing	Screen Setting (ft-bmp	) 43.3	Casing Diameter	(in) <sup>2</sup>		Well Casing Material	PVC	
Static Water evel (ft-bmp)	39.06		Total Depth (ft- bmp)	53.6	Water Column(f	t) 14.54		Gallons in Well	2.36	
IP Elevation	836.6		Pump Intake (ft bmp)	49	Purge Me	thod Low-Flo	w	Sample Method	Low-Flow	
ample Time	11:45		Well Volumes Purged	0.64	Sample II	YAT-YG	WA-1I	Sampled by	Jake Swanson	
urge Start	11:03		Gallons Purgeo	<b>i</b> 1.52	Replicate Code No.			Color	Clear	
urge 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)	Temperat °C	eure 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	
onstituent Sam	npled			Container			Number	Р	reservative	
hloride	•		;	250 mL Plastic	;		1	N	lone	
AD Chem				1L Plastic			2	— <u> </u>	NO3	
etals			<del>-</del> -	250 mL Plastic 1			1	— <u> </u>	NO3	
kalinity			<del>-</del> -	250 mL Plastic 1			1	None		
TDS				500 mL Plastic 1			1		one	
omments:	None									
ell Casing Volu	ıme Conver	sion								
Vell diameter (ind	ches) = gallor	ns per foot	1 = 0.04 1.5 = 0. 1.25 = 0.06 2 = 0		3.5 = 0.50 6 = 1.47 4 = 0.65					
Vell Information	l									
Well Locatio	n:				Well Locked at A	rrival:				
Condition of We	II:			w	ell Locked at Depa	rture:			_	

Key Number To Well: NA



								Updated : 2 -05:00	:/22/2023 9:59:36 AN
Project Number	r 30052922		Well ID	YGWA-1	D			Date	02/07/2023
Project Location	n AP-2			Weathe	r(°F) 61.7 degre	ees F and Clea	ır. The wind is	s blowing S/SE	at 6.9 mph.
Measuring Pt. Description	Top of Inn	er Casing	Screen Setting (ft-bmp	78.05	Casing Diameter	(in) <sup>2</sup>		Well Casing Material	PVC
Static Water Level (ft-bmp)	49.88		Total Depth (ft- bmp)	128.85	Water Column(f	78.97		Gallons in Well	12.83
MP Elevation	837.25		Pump Intake (ft bmp)	108	Purge Me	thod Low-Flo	W	Sample Method	Low-Flow
Sample Time	13:40		Well Volumes Purged	0.16	Sample II	YAT-YG	WA-1D	Sampled by	Jake Swanson
Purge Start	12:50		Gallons Purgeo	<b>i</b> 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)	Temperat °C	ure 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 Sar	mpled			Container			Number	Р	reservative
Chloride			;	250 mL Plastic			1	N	one
RAD Chem			<u> </u>	1L Plastic			2	— <u>н</u>	NO3
/letals			<del></del>	250 mL Plastic			1	— <u>н</u>	NO3
			<del>-</del> -	250 mL Plastic			1	N	one
Alkalinity									

 Well Casing Volume Conversion

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

 Well Information
 Well Locked at Arrival:

Condition of Well:

Well Completion: NA

Well Locked at Departure:

Key Number To Well: NA



Updated: 2/22/2023 9:59:54 AM

-05:00

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

Purge End 15:31

90									
Time	Total Elapsed Minutes	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 = 0.041.5 = 0.092.5 = 0.263.5 = 0.506 = 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					



Updated: 2/22/2023 10:01:40

AM -05:00

								AIVI -05:00		
Project Number	30052922	2	Well ID	YGWA-	14S			Date	02/08/	/2023
Project Location	AP-2			Weathe	r(°F) 66 cloudy					
Measuring Pt. Description	Top of Inr	ner Casing	Screen Setting (ft-bmp	24.66	Casing Diameter	(in) <sup>2</sup>		Well Casing Material	PVC	
Static Water Level (ft-bmp)	19.53		Total Depth (ft- bmp)	34.96	Water 15.43			Gallons in Well	2.51	
MP Elevation	748.76		Pump Intake (f bmp)	t- 30	30 Purge Method Low-Flow			Sample Method	Low-F	low
Sample Time	13:50		Well Volumes Purged	0.53	.53 Sample ID YAT-YGWA-14S		6WA-14S	Sampled by	Jake S	Swanson
Purge Start	rge Start 13:21 Gallons Purged		d 1.32	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)	Temperat °C	ture	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 Sam	npled			Container			Number	Р	reserva	ative
Chloride				250 mL Plastic	;		1	N	lone	
RAD Chem				1L Plastic		-	2		INO3	
Metals				250 mL Plastic	;	-	1		INO3	
Alkalinity				250 mL Plastic	;	-	1		lone	
TDS				500 mL Plastic	;	<del>.</del>	1	N	lone	
Comments:	None									
Well Casing Volu	ume Conver	sion								
Well diameter (ind	ches) = gallo	ns per foot	1 = 0.04 1.5 = 0 1.25 = 0.06 2 =		3.5 = 0.50 6 = 1.47 4 = 0.65					
Well Information	1									
Well Locatio	n:				Well Locked at A	rrival:				
Condition of We	II:			W	ell Locked at Depa	rture:			_	
Well Completio	n: NA			Key Number To Well: NA				_		



Updated: 2/22/2023 10:02:05

							ı	AM -05:00		
Project Number	r 30052922		Well ID	YGWA-3	301		J	Date	02/08	/2023
Project Locatio	n AP-2			Weathe	r(°F) 72 partly o	cloudy				
Measuring Pt. Description	Top of Inn	er Casing	Screen Setting (ft-bmp	49.18	Casing Diameter	(in) <sup>2</sup>		Well Casing Material	PVC	
Static Water Level (ft-bmp)	44.62		Total Depth (ft- bmp)	59.48	Water Column(f	t) 14.86		Gallons in Well	2.41	
MP Elevation	762.58		Pump Intake (fr bmp)	<b>t-</b> 54.5	Purge Me	thod Low-Flo		Sample Method	Low-l	Flow
Sample Time	15:10		Well Volumes Purged	0.77	Sample II	YAT-YG	WA-30I	Sampled by	Jake	Swanson
Purge Start	14:27		Gallons Purged	<b>d</b> 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)	Temperat °C	ture	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 Sa	mpled			Container			Number	P	reserv	ative
Chloride				250 mL Plastic	;		1	N	lone	
RAD Chem				1L Plastic			2	– <u> </u>	INO3	
Metals			<del></del> -	250 mL Plastic	;		1	H	INO3	
Alkalinity			<del></del> -	250 mL Plastic	;		1	N	lone	
TDS			 	500 mL Plastic	:		1	N	lone	
Comments:	None									
Well Casing Vo										
Well diameter (ir	nches) = gallor	ns per foot	$1 = 0.04 \ 1.5 = 0$ $1.25 = 0.06 \ 2 = 0.0$		3.5 = 0.50 6 = 1.47 4 = 0.65					
Well Informatio	n									
Well Location	on:				Well Locked at Ar	rrival:				
Condition of W	ell:			W	ell Locked at Depa	rture:			_	
Well Completion	on: NA				Key Number To	Well: NA			_	



Updated: 2/22/2023 10:02:53

								AM -05:00	,,,,
Project Number	30052922		Well ID	YGWA-3	BD			Date	02/08/2023
Project Location	AP-2			Weathe	r(°F) 52 cloudy				
Measuring Pt. Description	Top of Inn	er Casing	Screen Setting (ft-bmp	83.88	Casing Diameter	(in) <sup>2</sup>		Well Casing Material	PVC
Static Water Level (ft-bmp)	31.82		Total Depth (ft- bmp)	134.18	Water Column(f	102.36		Gallons in Well	16.63
MP Elevation	796.78		Pump Intake (f bmp)	t- 113	Purge Me	thod Low-Flo		Sample Method	Low-Flow
Sample Time	11:40		Well Volumes Purged	0.11	Sample II	D YAT-YO	SWA-3D	Sampled by	Jake Swanson
Purge Start	10:59		Gallons Purge	<b>d</b> 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)	Temperat °C	eure 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 Sam	ıpled			Container			Number	Р	reservative
Chloride				250 mL Plastic			1	N	lone
RAD Chem				1L Plastic		-	2	— —	NO3
Metals				250 mL Plastic			1		NO3
Alkalinity				250 mL Plastic		-	1	N	one
TDS				500 mL Plastic			1	N	one
Comments:	None	-1							
Well Casing Volu Well diameter (inc			1 = 0.04 1.5 = 0 1.25 = 0.06 2 =		3.5 = 0.50 6 = 1.47 = 0.65				
Well Information	 I								
Well Location	n:				Well Locked at A	rrival:			
Condition of We	II:			w	ell Locked at Depa	rture:			_
Well Completion	n: NA				Key Number To	Well: NA			_



Updated: 2/22/2023 10:03:12

								AM -05:00	
Project Number	30052922		Well ID	YGWA-3	31			Date	02/08/2023
Project Location	AP-2			Weathe	r(°F) 52 cloudy				
Measuring Pt. Description	Top of Inn	er Casing	Screen Setting (ft-bmp	48.85	Casing Diameter (	(in) <sup>2</sup>		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 (f bmp)	<b>t-</b> 54	Purge Met	thod Low-Flo	w	Sample Method	Low-Flow
Sample Time	10:00		Well Volumes Purged	1.20	Sample ID	YAT-YG	SWA-3I	Sampled by	Jake Swanson
Purge Start	09:06		Gallons Purge	d 1.32	Replicate/ Code No.	,		Color	Clear
Purge End	09:56								
	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperat °C	ure 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 Sam	nled			Container			Number	Þ	reservative
Chloride	piou			250 mL Plastic			1		one
RAD Chem				1L Plastic			2		NO3
Metals				250 mL Plastic	<u> </u>		1		NO3
				250 mL Plastic			1		one
Alkalinity									



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

Project Number	mber 30053438 <b>Well ID</b> YGWA-39					Date	02/07/2023		
Project Location	n AMA R6 C	CCR Landfill		Weathe	r(°F) 68.2 degre	es F and Clea	ar. The wind is	blowing S/SW	/ at 5.8 mph.
Measuring Pt. Description	Top of Inn	er Casing	Screen Setting (ft-bm)	p) 58.09	Casing Diameter	(in) <sup>2</sup>		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 (i bmp)	ft- <sub>63</sub>	Purge Met	thod Low-Flo		Sample Method	Low-Flow
Sample Time	16:15		Well Volumes Purged	0.15	Sample ID	YAT-YG	SWA-39	Sampled by	Jessica Ware
Purge Start	15:51		Gallons Purge	ed 1.27	Replicate/ Code No.	1		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)	Temperat °C	eure 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 San	npled			Container			Number	P	reservative
RAD Chem				1L Plastic			2	Н	NO3
Cations,Metals				250 mL Plastic	:		1	H	NO3
rds .				500 mL Plastic			1	N	one
Alkalinity				250 mL Plastic			1	N	lone
CI, F, SO4			_	250 mL Plastic	:		1	N	lone
Comments:	Missing la	bels, some h	andwritten						
Well Casing Vol	lume Conver	sion							
Well diameter (in	iches) = gallor	ns per foot		0.09 2.5 = 0.26 3 0.16 3 = 0.37 4	$3.5 = 0.50 \ 6 = 1.47$ 4 = 0.65				
Well Information	n								
Well Location	on:				Well Locked at Ar	rival:			
Condition of We	ell:			W	ell Locked at Depar	ture:			_
Well Completion	on: NA				Key Number To	Well: NA			_



Updated: 2/22/2023 10:12:44

								AM -05:00	<i>L, LL, LOLS</i> 10.12
Project Numbe	r 30143623	3	Well ID	YGWA-	211			Date	02/07/2023
Project Location	on AMA AP-	3, A, B and B'		Weathe	r(°F) Sunny, 60's	S			
Measuring Pt. Description	Top of Inr	ner Casing	Screen Setting (ft-bmp	69.6	Casing Diameter (	in) <sup>2</sup>		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 (fi	t <b>-</b> 75	Purge Met	hod Low-Flo	ow	Sample Method	Low-Flow
Sample Time	12:48		Well Volumes Purged	0.10	Sample ID	YAT-YG	GWA-21I	Sampled by	Kim Lapszynski
Purge Start	12:16		Gallons Purged	<b>d</b> 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)	Temperar °C	ture 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	-104.4
12:35:00	19:28	100	32.96	6.89	151.66	1.02	0.28	18.6	-104.0
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 Sa	mpled			Container			Number	P	Preservative
	Aller Profess TD	S, Cations		1L Plastic, 500	mL Plastic, 250		6	٨	lone, HNO3

Well Information

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

Key Number To Well: NA

 $1 = 0.04 \ 1.5 = 0.09 \ 2.5 = 0.26 \ 3.5 = 0.50 \ 6 = 1.47$ 

 $1.25 = 0.06 \ 2 = 0.16 \ 3 = 0.37 \ 4 = 0.65$ 

**Well Casing Volume Conversion** 

Well Completion: NA

Well diameter (inches) = gallons per foot



Updated: 2/22/2023 10:13:08

AM -05:00

							-			
Project Number	30143623		Well ID	YGWA-20	os		ı	Date	02/07/	/2023
Project Location	n AMA AP-3	3, A, B and B'		Weather	(°F) 64.6 degre	ees F and Cle	ar. The wind is I	olowing S at 6	6.9 mph	1
Measuring Pt. Description	Top of Inn	er Casing	Screen Setting (ft-bmp	19.22	Casing Diameter	(in) <sup>2</sup>		Vell Casing Material	PVC	
Static Water Level (ft-bmp)	11.03		Total Depth (ft- bmp)	29.52	Water Column(f	t) 18.49		Gallons in Well	3	
MP Elevation	767.12		Pump Intake (fi	<b>t-</b> 24.5	Purge Me	thod Low-Flo		Sample Method	Low-F	Flow
Sample Time	14:50		Well Volumes Purged	0.40	Sample II	YAT-YO	9WA-20S \$	Sampled by	Kim L	apszynski
Purge Start	14:02		Gallons Purged	<b>d</b> 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)	Temperat °C	ture	Redox (mV)
14:02:00	00:00	100	11.02	6.54	46.47		7 00	10.4		122.06

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)
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** 

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

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



Updated: 2/22/2023 10:21:42

AM -05:00

Project Number	r 30143623	3	Well ID	YGWA-4	40			Date	02/08/2	2023
Project Locatio	n AMA R6 (	CCR Landfill		Weathe	r(°F) 65.7 degre	es F and Clo	udy. The wind	is blowing S/S	W at 5.8	3 mph.
Measuring Pt. Description	Top of Inr	ner Casing	Screen Setting (ft-bmp	37.73	Casing Diameter (	(in) <sup>2</sup>		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	
/IP Elevation	815.73		Pump Intake (ft bmp)	42	Purge Met	thod Low-Flo	w	Sample Method	Low-Fl	ow
Sample Time	12:02		Well Volumes Purged	0.13	Sample ID	YAT-YG	SWA-40	Sampled by	Kim La	apszynski
Purge Start	11:40		Gallons Purgeo	0.53	Replicate/ Code No.	1		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)	Temperat °C	ture	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 Sai RAD 9315/9320, Metals, Cations	, TDS, Alkalini			Container 1L Plastic, 500 250mL Plastic	mL Plastic,		<b>Number</b>		reserva	
Comments:			h field truck. Park	ked and walked	d equipment due to r	muddy/deep r	uts at potentia	l access point.		
Well Casing Vo				00.05 0.5	0.5.0.5.0.5.1.=					
Vell diameter (ir	ncnes) = gallo	ns per foot	$1 = 0.04 \ 1.5 = 0$ $1.25 = 0.06 \ 2 = 0$		3.5 = 0.50 6 = 1.47 4 = 0.65					
Vell Informatio	n									
Well Location	on:				Well Locked at Arr	rival:				
Condition of W	ell:			W	ell Locked at Depar	ture:			_	
	on: NA								_	

Well Completion: NA



Updated: 2/10/2023 10:07:35

								AM -05:00	1, 10, 2023 10.01.3
Project Number	30053438		Well ID	YGWA-	17S			Date	02/07/2023
Project Location	n AMA AP-3	B, A, B and B'		Weathe	er(°F) 48.4 degre	es F and Clea	ar. The wind is	blowing SE at	t 4.7 mph.
Measuring Pt. Description	Top of Inn	er Casing	Screen Setting (ft-bmp	29.65	Casing Diameter (	(in) <sup>2</sup>		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 (fi	t- 35	Purge Met	hod Low-Flo	W	Sample Method	Low-Flow
Sample Time	11:16		Well Volumes Purged	0.28	Sample ID	YAT-YG	SWA-17S	Sampled by Jessica Ware	
Purge Start	10:32		Gallons Purged	<b>d</b> 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)	Temperat °C	ture 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 San	npled			Container			Number	P	reservative
RAD Chem				1L Plastic			2	Н	INO3
App III/IV Metals,	Cations			250 mL Plastic	;		1	— <u> </u>	INO3
Alk				250 mL Plastic	;		1	N	lone
CI, F, SO4				250 mL Plastic	;		1	N	lone
TDS				500 mL Plastic	;		1	N	lone
Comments:	None								
Well Casing Vol	ume Convers	sion							
Well diameter (in	ches) = gallor	ns per foot	1 = 0.04 1.5 = 0 1.25 = 0.06 2 =		3.5 = 0.50 6 = 1.47 4 = 0.65				
Well Information	1								
Well Location	n:				Well Locked at Arı	rival:			
Condition of We	 ell:			W	/ell Locked at Depart	ture:			_
Wall Completie	ΝΑ				Kov Number To V	Λ/οΠ. NIA			_

Key Number To Well: NA

Well diameter (inches) = gallons per foot

**Well Information** 

Well Location:

Well Completion: NA

Condition of Well:



Updated: 2/9/2023 11:24:10 AM

								-05:00	2/9/2023 11:24:10 A
Project Number	30053438		Well ID	YGWA-	18S			Date	02/07/2023
Project Location	n AMA AP-3	B, A, B and B'		Weathe	r(°F) 61.7 degr	ees F and Cle	ar. The wind is	blowing S/SE	at 6.9 mph.
Measuring Pt. Description	Top of Inn	er Casing	Screen Setting (ft-bmp	29.97	Casing Diameter	(in) <sup>2</sup>		Well Casing Material	PVC
Static Water evel (ft-bmp)	23.68		Total Depth (ft- bmp)	39.97	Water Column(f	t) 16.29		Gallons in Well	2.65
MP Elevation	790.57		Pump Intake (ft bmp)	35	Purge Me	thod Low-Flo	)W	Sample Method	Low-Flow
Sample Time	13:48		Well Volumes Purged	0.50	Sample II	YAT-YO	GWA-18S	Sampled by	Jessica Ware
Purge Start	13:19		Gallons Purged	<b>i</b> 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)	Temperat °C	eure 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 San	npled			Container			Number	P	reservative
RAD Chem				1L Plastic			2	Н	NO3
ations,Metals			<del></del>	250 mL Plastic	;		1		NO3
I, F, SO4				250 mL Plastic	;		1	N	lone
lkalinity			<del></del>	250 mL Plastic	;		1	N	one
DS			<del></del>	500 mL Plastic	;		1	N	one
Comments:	None								

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47

Well Locked at Arrival:

Key Number To Well: NA

Well Locked at Departure:

1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65



Updated: 2/22/2023 10:13:26

AM -05:00

Project Locatio	n AMA AP-3	B, A, B and B'		Weathe	r(° <b>F)</b> 67.1 degre	es F and Clea	ar. The wind is	blowing S at 6	6.9 mph.	
Measuring Pt. Description	Top of Inn	er Casing	Screen Setting (ft-bmp	78.83	Casing Diameter (	(in) <sup>2</sup>		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 Met	thod Low-Flo		Sample Method	Low-Flow	
Sample Time	16:22		Well Volumes Purged	0.07	Sample ID	YAT-YG	SWA-5D	Sampled by	Kim Lapszyns	ki
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)	Temperat °C		dox 1V)
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	-12	2.05
16:09:00	10:00	250	20.26	6.73	226.74	0.74	0.42	16.7	-12	5.79
16:14:00	15:00	250	20.42	6.66	218.99	0.68	0.36	16.7	-128	8.33
16:19:00	20:00	250	20.48	6.64	217.27	0.65	0.36	16.7	-13	5.34
Constituent Sampled  RAD 9315/9320, TDS, Alkalinity, App III/IV  Metals, Cations(Na, K, Mg), Cl, F, SO4				Container 1L Plastic, 500 250mL Plastic	mL Plastic,	Number 6		Preservative None, HNO3		
Comments:	None									
Well Casing Vo	lume Conver	sion								
Well diameter (ir	nches) = gallo	ns per foot	1 = 0.04 1.5 = 0 1.25 = 0.06 2 =		3.5 = 0.50 6 = 1.47 = 0.65					
Well Informatio	n									
Well Location	on:				Well Locked at Arr	rival:				
Condition of W	ell:			W	ell Locked at Depar	ture:			_	
Well Completion	on: NA				Key Number To \	Well: NA			-	



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

								-03.00		
Project Numbe	r 30053438	3	Well ID	YGWA-	18I			Date	02/07/	2023
Project Locatio	on AMA AP-	3, A, B and B'		Weathe	Weather(°F)					
Measuring Pt. Description	Top of Inr	ner Casing	Screen Setting (ft-bmp	69.67	Casing Diameter	(in) <sup>2</sup>		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 (f	f <b>t-</b> 75	Purge Me	thod Low-Flo		Sample Method	Low-F	low
Sample Time	12:31		Well Volumes Purged	0.19	Sample ID	YAT-YG	SWA-18I	Sampled by	Jessic	a Ware
Purge Start	12:03		Gallons Purge	<b>d</b> 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)	Temperat °C	ure	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 Sa	mpled			Container			Number	P	reserva	itive
RAD Chem				1L Plastic			2	Н	NO3	
Cations,Metals				250 mL Plastic	<del></del>	1		HNO3		
Alk				250 mL Plastic	<del></del>	1			lone	
Cl, F, SO4				250 mL Plastic 1		1		lone		
TDS				500 mL Plastic	500 mL Plastic 1			None		
TDS			<u> </u>	500 mL Plastic			1	N	lone	
Comments:	None									
Well Casing Vo	olume Conver	sion								
Well diameter (in	nches) = gallo	ns per foot	1 = 0.04 1.5 = 0 1.25 = 0.06 2 =		3.5 = 0.50 6 = 1.47 4 = 0.65					
Well Informatio	on									
Well Locati	ion:				Well Locked at Ar	rival:				
Condition of W	/ell:				ell Locked at Depar	ture:			_	
Well Completi	ion: NA				Key Number To Well: NA					



Updated: 2/22/2023 10:33:40

AM -05:00

								AIVI -03.00		
Project Numbe	er 30143623	<b>;</b>	Well ID	YGWA-	51			Date	02/09/2023	
Project Location	on AMA AP-3	3, A, B and B'		Weathe	<b>r(°F)</b> 62.6 degr	ees F and Mos	stly Cloudy. The	e wind is blowi	ing S/SW at 8.	.1 mph.
Measuring Pt. Description	Top of Inn	er Casing	Screen Setting (ft-bmp	48.64	Casing Diameter	(in) <sup>2</sup>		Well Casing Material	PVC	
Static Water Level (ft-bmp)	19.06		Total Depth (ft bmp)	58.94	Water Column(t	39.88		Gallons in Well	6.48	
MP Elevation	784.54		Pump Intake (f	f <b>t-</b> 53	Purge Me	ethod Low-Flo	11/1/	Sample Method	Low-Flow	
Sample Time	11:26		Well Volumes Purged	0.08	Sample II	D YAT-YG	SWA-5I	Sampled by	Kim Lapszyn	ıski
Purge Start	11:03		Gallons Purge	<b>d</b> 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)	Temperat °C		edox (mV)
11:03:00	00:00	100	19.06	7.11	70.88		8.71	15.4	12	22.00
11:08:00	05:00	100	19.22	6.15	67.99	1.03	6.25	16.3	14	43.52
11:13:00	10:00	100	19.23	5.94	68.99	0.74	6.16	16.5	15	58.08
11:18:00	15:00	100	19.24	5.91	69.23	0.70	6.15	16.5	16	64.37
		1								69.40

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

Comments: None.

**Well Casing Volume Conversion** 

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

Well Information	
Well Location:	Well Locked at Arrival:
Condition of Well:	Well Locked at Departure:
Well Completion: N	A Key Number To Well: NA



Updated: 2/22/2023 10:23:26

AM -05:00

Project Number	r 30143623	3	Well ID	YGWA-	41			Date	02/09/2023	
Project Locatio	n AMA AP-	3, A, B and B'		Weathe	er(°F) 60.1 degr	ees F and Clo	udy. The wind	is blowing S a	t 10.3 n	nph.
Measuring Pt. Description	Top of Inr	ner Casing	Screen Setting (ft-bmp	<b>38.51</b>	Casing Diameter	(in) <sup>2</sup>		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 (f bmp)	<b>'t-</b> 45	Purge Mo	ethod Low-Flo	OW	Sample Method	Low-F	Flow
Sample Time	09:55		Well Volumes Purged	0.18	Sample I	D YAT-YO	GWA-4I	Sampled by	Kim L	apszynski
Purge Start	09:27		Gallons Purge	<b>d</b> 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)	Temperation °C	ture	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 Sa	mpled			Container			Number	P	reserv	ative
RAD 9315/9320 (Na, K, Mg), App				1L Plastic, 500 250mL Plastic		-	6	N	lone, H	NO3
Comments:	None.									
Well Casing Vo	lume Conver	sion								
Well diameter (in	nches) = gallo	ns per foot	1 = 0.04 1.5 = 0 1.25 = 0.06 2 =		3.5 = 0.50 6 = 1.47 4 = 0.65	•				
Well Informatio	n									
Well Location	on:				Well Locked at A	rrival:				
Condition of W	ell:			W	ell Locked at Depa	arture:			_	
Well Completion	on: NA				Key Number To	Well: NA			_	



Updated: 2/22/2023 9:54:25 AM

								-05:00	:/22/2023 9:54:25
Project Number	30143608		Well ID	GWA-2				Date	02/07/2023
Project Location	Gypsum L	andfill		Weathe	<b>r(°F)</b> 56 °F, Co	d, SW winds a	t 5 mph.		
Measuring Pt. Description	Top of Inn	er Casing	Screen Setting (ft-bmp)	42.1	42.1 Casing Diameter			Well Casing PVC	
Static Water Level (ft-bmp)	37.49		Total Depth (ft- bmp)	52.13	Water Column(f	t) 14.64		Gallons in Well	2.38
MP Elevation	805.62		Pump Intake (ft bmp)	<b>-</b> 47	Purge Me	thod Low-Flo	w	Sample Method	Low-Flow
Sample Time	11:48		Well Volumes Purged	0.78	Sample II	YAT-GV	VA-2	Sampled by	Mark Chest
Purge Start	11:08		Gallons Purged	l 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)	Temperat °C	ure 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 Sam	ıpled		(	Container			Number	Р	reservative
RAD Chem			,	1L Plastic			2	Н	NO3
Cations ,Metals				250 mL Plastic	;		1		NO3
DS			<del>_</del>	500 mL Plastic	<u> </u>		1	N	one
Cl, F, and SO4				250 mL Plastic	;		1		one
Alkalinity				250 mL Plastic	;		1	N	one
Comments:	Good								
Vell Casing Volu	ume Conver	sion							

Well Location:

Condition of Well:

Well Completion:

Well Completion:

Well Completion:

Well Vocked at Arrival:

Well Locked at Departure:

Key Number To Well:

NA



Updated: 2/22/2023 9:56:23 AM

-05:00

30143608 Well ID YGWA-47 Date 02/08/2023 **Project Number** Project Location AP-1 Weather(°F) 68.0 degrees F and Mostly Cloudy. The wind is blowing S at 5.8 mph. **Well Casing** Measuring Pt. Screen Casing PVC Top of Inner Casing 49.4 Description Material Setting (ft-bmp) Diameter (in) Total Depth (ft-**Static Water** Gallons in Water 59.19 35.25 23.94 3.89 Level (ft-bmp) bmp) Column(ft) Well Pump Intake (ft-Sample Purge Method Low-Flow **MP Elevation** 758.22 54 Low-Flow bmp) Method **Well Volumes** Sample Time 17:02 0.27 Sample ID YAT-YGWA-47 Sampled by Mark Chest Purged Replicate/ **Purge Start** 16:23 **Gallons Purged** 1.06 Color Clear Code No. **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
CI, F, SO4	500 mL Plastic	1	None

Comments: Good

**Well Casing Volume Conversion** 

Well diameter (inches) = gallons per foot  $1 = 0.04 \cdot 1.5 = 0.09 \cdot 2.5 = 0.26 \cdot 3.5 = 0.50 \cdot 6 = 1.47$ 

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



Proje	ct Location:	AP-2			
Perm	nit Number:				
		YGWA-30I	ļ		
Perso		Jake Swanson			
		2/6/2023			
	Time:	01:38:00			
			Yes	No	N/A
1	Location Ide				
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?		$\overline{\mathbf{A}}$	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	· ·			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	$\square$		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	Ø		
	e	Is the depth of the well consistent with the original well log?	Ø		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?		$\overline{\checkmark}$	
6	Based on vo	ur professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:		•	-
,	Corrective a	enons as necaca, by date.			
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AP-2			
Perm	nit Number:				
	Well ID:	PZ-3S	ļ		
Perso		Kim Lapszynski			
		2/6/2023			
	Time:	10:55:00			
			Yes	No	N/A
1	Location Ide				
	a	Is the well visible and accessible?	$\square$		
	b	Is the well properly identified with the correct well ID?	☑		
	С	Is the well in a high traffic area and does the well require protection from traffic?		$\square$	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?			
	е	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?		$\overline{\checkmark}$	
6	Based on yo	ur professional judgement, is the well construction / location:			
	,	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			
	D				
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AP-2			
Perm	nit Number:				
	Well ID:	YGWA-3I	ļ		
Perso		Kim Lapszynski			
		2/6/2023			
	Time:	10:56:00			
			Yes	No	N/A
1	Location Ide				
	a	Is the well visible and accessible?	$\square$		
	b	Is the well properly identified with the correct well ID?	☑		
	С	Is the well in a high traffic area and does the well require protection from traffic?		$\square$	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	Ø		
	е	Is the depth of the well consistent with the original well log?	Ø		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?		V	
6	Based on yo	ur professional judgement, is the well construction / location:			
	-	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			
		•			
	Date la 1				
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AP-2			
Perm	nit Number:				
	Well ID:	YGWA-3D			
Perso	on Gauging:	Kim Lapszynski			
		2/6/2023			
	Time:	10:57:00			i
			Yes	No	N/A
1	Location Ide	entification:			
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	$\square$		
	С	Is the well in a high traffic area and does the well require protection from traffic?		$\square$	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	$\square$		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	$\square$		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	$\square$		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	Ø		
	е	Is the depth of the well consistent with the original well log?	Ø		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	$\square$		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?		$\overline{\checkmark}$	
6	Based on vo	our professional judgement, is the well construction / location:			
	- )-	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	$\square$		
		and 2) comply with the applicable regulatory requirements?			
7	Corrective a	ctions as needed, by date:	·		_
,	corrective a	enons as needed, by dute.			
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AP-2			
Perm	nit Number:				
	Well ID:	YGWA-2I			
Perso		Kim Lapszynski			
		2/6/2023			
	Time:	11:06:00			
			Yes	No	N/A
1	Location Ide				
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?		$\overline{\mathbf{A}}$	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	·			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?			
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	Ø		
	e	Is the depth of the well consistent with the original well log?	Ø		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?		$\overline{\checkmark}$	
6	Based on vo	ur professional judgement, is the well construction / location:			
	- ,-	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	<u> </u>		
7	Corrective a	ctions as needed, by date:		•	-
,	Corrective a	caons as necessary by dute.			
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AP-2			
Perm	nit Number:				
	Well ID:	YGWA-1D			
Perso	on Gauging:	Kim Lapszynski			
		2/6/2023			
	Time:	11:10:00			
			Yes	No	N/A
1	Location Ide				
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	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)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi				
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	$\square$		
	е	Is the depth of the well consistent with the original well log?	Ø		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	Ø		
5	Sampling: G	roundwater 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?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?			
6		our professional judgement, is the well construction / location:			
J		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?			
7	Corrective	ctions as needed, by date:	_		_
,	COTTECTIVE 4	choris as necueu, by date.			
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AP-2			
Perm	nit Number:				
	Well ID:	PZ-1S			
Perso	n Gauging:	Kim Lapszynski			
		2/6/2023			
	Time:	11:11:00			
			Yes	No	N/A
1	Location Ide				
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?		Ø	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	а	Is the protective casing free from apparent damage and able to be secured?	$\square$		
	b	Is the casing free of degradation or deterioration?	$\square$		
	С	Does the casing have a functioning weep hole?	$\square$		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	$\square$		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	Ø		
	e	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	· ·			
	а	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	$\square$		
	d	Is the survey point clearly marked on the inner casing?	$\square$		
	е	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)	<b></b>	_	_
5	Sampling: G	roundwater 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?	<b>⊿</b>	_	
	С	Does the well require redevelopment (low flow, turbid)?		$\overline{\mathbf{Q}}$	
6		our professional judgement, is the well construction / location:	_	_	_
U	based on yo	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	$\square$		
			<b>V</b>		
7	Correction	and 2) comply with the applicable regulatory requirements?	Y.		
/	Corrective a	ctions as needed, by date:			
8	Date by whe	en corrective actions are needed:			



			1		
	ct Location:	AP-2			
Perm	nit Number:				
	Well ID:				
Perso		Kim Lapszynski			
		2/6/2023			
	Time:	11:12:00			
			Yes	No	N/A
1	Location Ide				
	a	Is the well visible and accessible?	☑		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?		Ø	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	$\square$		
	b	Is the casing free of degradation or deterioration?	$\square$		
	С	Does the casing have a functioning weep hole?	$\square$		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	$\square$		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	$\square$		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	$\square$		
4	Internal Casi				
	a	Does the cap prevent entry of foreign material into the well?	$\square$		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	$\square$		
	d	Is the survey point clearly marked on the inner casing?	$\square$		
	е	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)	<b></b>		
	Campling: C	roundwater Wells Only:			
5	, ,	•	$\square$		
	a	Does well recharge adequately when purged?	IV.	Ш	
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?		<u> </u>	
6	Based on yo	ur professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			
8	Date by whe	en corrective actions are needed:			



Proio	ct Location:	ΔΡ-2			
	nit Number:	711 2	-		
		YGWA-14S	1		
Perso		Jake Swanson	1		
		2/6/2023			
	Time:	02:12:00	1		
			Yes	No	N/A
1	Location Ide	ntification:			
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?		V	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	$\square$		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	а	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	$\square$		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	$\square$		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	Ø		
	е	Is the depth of the well consistent with the original well log?	Ø		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	$\square$		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?			
6	Based on yo	ur professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	Gypsum Landfill	_		
Perm	nit Number:		-		
	Well ID:		-		
Perso		Jake Swanson	-		
		2/6/2023	-		
	l ime:	09:16:00	Voc	No	NI/A
1	Location Ide	entification:	res	INO	N/A
'		Is the well visible and accessible?			
	a				
	b	Is the well properly identified with the correct well ID?		☑	
	С	Is the well in a high traffic area and does the well require protection from traffic?		$\square$	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	ed in obvious  ed in obvious  gravel/sand?  gravel/sand.  gravel/sand.		
	С	Is the well pad in complete contact with the protective casing?	$\square$		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	$\square$		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	$\square$		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	$\square$		
	d	Is the survey point clearly marked on the inner casing?	Ø		
	е	Is the depth of the well consistent with the original well log?	Ø		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?			
6	Based on vo	our professional judgement, is the well construction / location:			
	, , , ,	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	$\overline{\mathbf{Z}}$		
		and 2) comply with the applicable regulatory requirements?	$\overline{\mathbf{Z}}$		
7	Corrective a	ctions as needed, by date:			
•		ded and bollards needs painting			
8	Date by whe	en corrective actions are needed:			



Duois	ct Location:	AD_1			
	nit Number:	Wt - I	1		
reiii		YGWA-47	1		
Perso		Jake Swanson	1		
. 0.50		2/6/2023			
		11:02:00	1		
			Yes	No	N/A
1	Location Ide	entification:			
	a	Is the well visible and accessible?	$\overline{\mathbf{A}}$		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	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)	Ø		
2	Protective C	asing:			
	а	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	V		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	а	Is the well pad in good condition (not cracked or broken)?	Ø		
k	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	$\square$		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	$\overline{\mathbf{A}}$		
	С	Is the well properly vented for equilibration of air pressure?	$\square$		
	d	Is the survey point clearly marked on the inner casing?	$\square$		
	е	Is the depth of the well consistent with the original well log?	$\square$		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	V		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?		Ø	
6	Based on yo	our professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			
8	Date by whe	en corrective actions are needed:			



		AMA R6 CCR Landfill	-		
Perm	nit Number:				
		YGWA-39	-		
Perso		Kim Lapszynski	-		
		2/6/2023	-		
	Time:	12:35:00	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		N 1 / A
4			Yes	No	N/A
ı	Location Ide			_	_
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	<u> </u>		
	C	Is the well in a high traffic area and does the well require protection from traffic?		Ø	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	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?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	$\square$		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	V		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	V		
	е	Is the depth of the well consistent with the original well log?	V		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?		$\overline{\square}$	
6	Based on yo	ur professional judgement, is the well construction / location:			
	, , ,	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	V		
		and 2) comply with the applicable regulatory requirements?	V		
7	Corrective a	ctions as needed, by date:			
•					
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AMA AP-3, A, B and B'			
Pern	nit Number:				
	Well ID:	YGWA-21I			
Perso	on Gauging:	Kim Lapszynski			
		2/6/2023			
	Time:	09:29:00			
			Yes	No	N/A
1	Location Ide	entification:			
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?	$\square$		
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	а	Is the protective casing free from apparent damage and able to be secured?	$\square$		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	$\square$		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	$\square$		
	b	Is the well pad sloped away from the protective casing?			
	С	Is the well pad in complete contact with the protective casing?	$\square$		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	$\square$		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	$\square$		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?			
	е	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)	Ø		
5	Sampling: G	roundwater Wells Only:			
	а	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?		V	
6	Based on yo	our professional judgement, is the well construction / location:			
	-	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			
		,			
	Date la 1				
8	Date by whe	en corrective actions are needed:			



		AMA DC CCD Law JCII			
		AMA R6 CCR Landfill	-		
Perm	nit Number:	YGWA-40	1		
Dorse		Kim Lapszynski	1		
reisc		2/6/2023	1		
		11:51:00			
			Yes	No	N/A
1	Location Ide	entification:			-
	а	Is the well visible and accessible?	$\overline{\mathbf{A}}$		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	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)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	V		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	а	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	V		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Cas	ing			
	а	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	Ø		
	е	Is the depth of the well consistent with the original well log?	Ø		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	V		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?		V	
6	Based on yo	ur professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	V		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			
8	Date by whe	en corrective actions are needed:			



		AMA AP-3, A, B and B'			
Perm	nit Number:				
		YGWA-17S	-		
Perso		Kim Lapszynski	_		
		2/6/2023	-		
	Time:	10:41:00	\		N 1 / A
			Yes	No	N/A
ı	Location Ide			_	_
	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?		Ø	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	V		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
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?	$\square$		
	С	Is the well pad in complete contact with the protective casing?	$\overline{\mathbf{V}}$		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	$\square$		
	е	Is the pad surface clean (not covered with sediment or debris)?	V		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	V		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?			
	С	Is the well properly vented for equilibration of air pressure?	$\overline{\mathbf{V}}$		
	d	Is the survey point clearly marked on the inner casing?	$\overline{\mathbf{v}}$		
	e	Is the depth of the well consistent with the original well log?	$\overline{\mathbf{A}}$		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	$\square$		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	$\square$		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	$\square$		
	С	Does the well require redevelopment (low flow, turbid)?		$\overline{\mathbf{Q}}$	
6		ur professional judgement, is the well construction / location:			
	- ,-	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	$\overline{\mathbf{V}}$		
		and 2) comply with the applicable regulatory requirements?	<b>V</b>		
7	Corrective a	ctions as needed, by date:			
,	Jon Court di	cases as notation by dute.			
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AMA AP-3, A, B and B'	_		
Perm	nit Number:		-		
		YGWA-18I	-		
Perso		Kim Lapszynski	-		
		2/6/2023	-		
	Time:	10:18:00	V	NI.	NI/A
1	Location Ido	atification.	Yes	No	N/A
ı	Location Ide				
	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?		Ø	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	V		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	V		
	b	Is the well pad sloped away from the protective casing?	V		
	С	Is the well pad in complete contact with the protective casing?	V		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	v		
4	Internal Casi	ng			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	v		
	d	Is the survey point clearly marked on the inner casing?	V		
	e	Is the depth of the well consistent with the original well log?	Ø		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	$\square$		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑		
	С	Does the well require redevelopment (low flow, turbid)?		$\overline{\square}$	
6	Based on vo	ur professional judgement, is the well construction / location:			
	<b>,</b> , ,	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	V		
		and 2) comply with the applicable regulatory requirements?	V		
7	Corrective a	ctions as needed, by date:			
•	Jon Collive di	and the court of duties			
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AMA AP-3, A, B and B'			
Pern	nit Number:		1		
	Well ID:	YGWA-20S	1		
Perso	on Gauging:	Kim Lapszynski	]		
	Date:	2/6/2023			
	Time:	09:22:00			
			Yes	No	N/A
1	Location Ide	entification:			
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?		$\overline{\mathbf{V}}$	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	V		
3	Surface Pad				
	а	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	V		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	ing			
	а	Does the cap prevent entry of foreign material into the well?	V		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	V		
	е	Is the depth of the well consistent with the original well log?	V		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	V		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	v		
	С	Does the well require redevelopment (low flow, turbid)?			
6	Based on yo	our professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	V		
		and 2) comply with the applicable regulatory requirements?	V		
7	Corrective a	ctions as needed, by date:			
•		. ,			
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AMA AP-3, A, B and B'			
Pern	nit Number:				
	Well ID:	YGWA-5D			
Perso	on Gauging:	Kim Lapszynski			
		2/6/2023			
	Time:	09:38:00			
			Yes	No	N/A
1	Location Ide	entification:			
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?		$\square$	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	а	Is the protective casing free from apparent damage and able to be secured?	$\square$		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	$\square$		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	$\square$		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?			
4	Internal Casi	ing			
	а	Does the cap prevent entry of foreign material into the well?	$\square$		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	$\square$		
	С	Is the well properly vented for equilibration of air pressure?	$\square$		
	d	Is the survey point clearly marked on the inner casing?			
	e	Is the depth of the well consistent with the original well log?	$\square$		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?		$\overline{\checkmark}$	
6		ur professional judgement, is the well construction / location:			
_	- , , -	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	$\square$		
		and 2) comply with the applicable regulatory requirements?	<u></u>		
7	Corrective a	ctions as needed, by date:			-
,	corrective a	enons as necaca, by aute.			
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AMA AP-3, A, B and B'			
	nit Number:				
	Well ID:	YGWA-5I			
Perso	on Gauging:	Kim Lapszynski	]		
	Date:	2/6/2023			
	Time:	09:40:00			
			Yes	No	N/A
1	Location Ide	ntification:			
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?	Ø		
	С	Is the well in a high traffic area and does the well require protection from traffic?		Ø	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	Ø		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	Ø		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	Ø		
	С	Is the well pad in complete contact with the protective casing?	Ø		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	Ø		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	Ø		
	С	Is the well properly vented for equilibration of air pressure?	Ø		
	d	Is the survey point clearly marked on the inner casing?	Ø		
	е	Is the depth of the well consistent with the original well log?	Ø		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	Ø		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	Ø		
	С	Does the well require redevelopment (low flow, turbid)?		Ø	
6	Based on yo	ur professional judgement, is the well construction / location:			
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	Ø		
		and 2) comply with the applicable regulatory requirements?	Ø		
7	Corrective a	ctions as needed, by date:			
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AMA AP-3, A, B and B'	_		
Perm	nit Number:		-		
		YGWA-18S	-		
Perso		Kim Lapszynski	-		
		2/6/2023	-		
	Time:	10:17:00	V	NI.	NI/A
1	l osation Ido	ntification.	Yes	No	N/A
ı	Location Ide				
	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?		Ø	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Ø		
2	Protective C	asing:			
	a	Is the protective casing free from apparent damage and able to be secured?	V		
	b	Is the casing free of degradation or deterioration?	Ø		
	С	Does the casing have a functioning weep hole?	Ø		
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	V		
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	Ø		
	b	Is the well pad sloped away from the protective casing?	V		
	С	Is the well pad in complete contact with the protective casing?	V		
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	Ø		
	е	Is the pad surface clean (not covered with sediment or debris)?	v		
4	Internal Casi	ing			
	a	Does the cap prevent entry of foreign material into the well?	V		
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	V		
	С	Is the well properly vented for equilibration of air pressure?	$\overline{\mathbf{V}}$		
	d	Is the survey point clearly marked on the inner casing?	Ø		
	е	Is the depth of the well consistent with the original well log?	Ø		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	$\square$		
5	Sampling: G	roundwater Wells Only:			
	a	Does well recharge adequately when purged?	Ø		
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑		
	С	Does the well require redevelopment (low flow, turbid)?		$\overline{\square}$	
6	Based on vo	ur professional judgement, is the well construction / location:			
	- ,-	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	$\overline{\mathbf{Z}}$		
		and 2) comply with the applicable regulatory requirements?			
7	Corrective a	ctions as needed, by date:			
•					
8	Date by whe	en corrective actions are needed:			

# **Appendix B**

**Analytical Laboratory Data and Validation Reports** 



# Georgia Power Co. - Plant Yates

# **Data Review Report**

Metals, General Chemistry, and Radium Analyses

SDGs #92651579 and 92651580

Analyses Performed By:

Pace Analytical Services – Asheville, North Carolina Pace Analytical Services – Peachtree Corners, Georgia Pace Analytical Services – Greensburg, Pennsylvania

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

# **Summary**

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

	Sample			Analysis	5		
Sample ID	Lab ID	Matrix	Collection Date	Parent Sample	RAD	MET	GEN CHEM
YAT-YGWC-23S	92651579001 92651580001	Water	2/8/2023		Х	х	Х
YAT-YGWC-42	92651579002 92651580002	Water	2/8/2023		х	Х	Х
YAT-PZ-37	92651579003 92651580003	Water	2/8/2023		х	Х	Х
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		х	Х	Х
YAT-PZ-52D	92651579006 92651580006	Water	2/8/2023		x	X	X
YAT-AMA-R6-EB-1	92651579007 92651580007	Water	2/8/2023		х	Х	Х
YAT-AMA-R6-FB-2	92651579008 92651580008	Water	2/8/2023		х	Х	Х
YAT-YGWC-38	92651579009 92651580009	Water	2/8/2023		х	Х	Х
YAT-AMA-R6-FD-2	92651579010 92651580010	Water	2/8/2023	YAT-YGWC-38	х	Х	Х
YAT-YGWC-41	92651579011 92651580011	Water	2/8/2023		х	Х	Х
YAT-YGWC-43	92651579012 92651580012	Water	2/8/2023		х	Х	Х

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

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

Note:

QA = quality assurance

# **Inorganic Analysis Introduction**

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

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

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

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

#### **Data Review Report**

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

# **Metals Analyses**

### 1. Holding Times

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

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

#### Note:

s.u. = standard units

All samples were analyzed within the specified holding times.

#### 2. Blank Contamination

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

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

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 <bal<="" and="" td=""><td>"UB" at the RL</td></rl>	"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 <bal<="" and="" td=""><td>"UB" at the RL</td></rl>	"UB" at the RL
YAT-YGWC-36A YAT-YGWC-49	Boron (EB)		
YAT-PZ-35	Boron (EB)	Detected sample results >RL and <bal< td=""><td>"UB" at detected sample result</td></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
	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%
VAT VANAMA / VAT AMA DE ED 1	Barium	0.078	0.081	3.8%
YAT-YAMW-1 / YAT-AMA-R6-FD-1	Boron	0.63	0.66	4.7%
	Beryllium	0.00012 J	0.00013 J	
	Cobalt	0.0045 J	0.0046 J	AC
	Lithium	0.019 J	0.020 J	AC
	Selenium	0.0051	0.0050	-
	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%
YAT-YGWC-38 / YAT-AMA-R6-FD-2	Boron	4.1	4.0	2.5%
	Selenium	0.056	0.055	1.8%
	Barium	0.016	0.015	
	Beryllium	0.0020	0.0019	AC
	Cadmium	0.00068	0.00071	-

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
	Lithium	0.0058 J	0.0056 J	
	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%
YAT-PZ-37 / YAT-AMA-R6-FD-3	Selenium	0.16	0.15	6.5%
	Barium	0.022	0.021	
	Beryllium	0.0011	0.0011	
	Cadmium	0.00076	0.00069	AC
	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	Rep	orted	Performance Acceptable		Not Required	
	No	Yes	No	Yes		
Inductively Coupled Plasma-Atomic Emission Spectrom Inductively Coupled Plasma-Mass Spectrometry (ICP-MS Atomic Absorption – Manual Cold Vapor (CV)		AES)				
Tier II Validation						
Holding Times		Х		Х		
Reporting limits (units)		Х		Х		
Blanks	I		I	I	I	
A. Method Blanks		Х		Х		
B. Equipment/Field Blanks		Х	Х			
Laboratory Control Sample (LCS) %R		Х		Х		
Matrix Spike (MS) %R		Х		Х		
Matrix Spike Duplicate (MSD) %R		Х		Х		
MS/MSD Precision (RPD)		Х		Х		
Laboratory Duplicate (RPD)	Х				X	
Field Duplicate (RPD)		Х		Х		

#### 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< td=""><td>"UB" at detected sample result</td></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	
	TDS	347	344	0.9%	
	Alkalinity, Bicarbonate (CaCO3)	29.2	28.6	2.1%	
	Alkalinity, Total as CaCO3	29.2	28.6	2.1%	
YAT-YAMW-1 / YAT-AMA-R6-FD-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	AC	
	TDS	579	485	17.7%	
	Sulfate	251	252	0.4%	
	Alkalinity, Bicarbonate (CaCO3)	8.2	8.6		
YAT-YGWC-38 / YAT-AMA-R6-FD-2	Alkalinity, Carbonate (CaCO3)	5.0 U	5.0 U		
	Alkalinity, Total as CaCO3	8.2	8.6	AC	
	Chloride	3.9	3.8	-	
	Fluoride	0.10 U	0.10 U	-	
	TDS	822	884	7.3%	
	Sulfate	449	453	0.9%	
	Alkalinity, Bicarbonate (CaCO3)	13.2	12.8		
YAT-PZ-37 / YAT-AMA-R6-FD-3	Alkalinity, Carbonate (CaCO3)	5.0 U	5.0 U	-	
	Alkalinity, Total as CaCO3	13.2	12.8	AC	
	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,	Rep	orted		rmance eptable	Not Required
SM2320B, USEPA 300.0	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		Х		Х	
Reporting limits (units)		Х		Х	
Blanks	I	1	1	ı	
A. Method Blanks		Х		Х	
B. Equipment/Field Blanks		Х	Х		
Laboratory Control Sample (LCS) %R		Х		Х	
Matrix Spike (MS) %R		Х		Х	
Matrix Spike Duplicate (MSD) %R		Х		Х	
MS/MSD Precision (RPD)		Х		Х	
Laboratory Duplicate (RPD)		Х		Х	
Field Duplicate (RPD)		Х		Х	

#### 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. <u>If either of these criteria is true, the blank is considered not suspect of contamination (or non-detect).</u>

- 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 
$$_{MethodBlan \, k} = \frac{ / \, Sample \, - \, Blank \, / }{ \sqrt{ \left( U_{Sample} \, \right)^2 + \left( U_{Blank} \, \right)^2 }}$$

#### Where:

Usample = uncertainty of the sample

U<sub>Blank</sub> = 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:

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  $< \pm 3$  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.

<sup>\* =</sup> 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

### 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:

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

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

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

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

#### 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. <u>If either one of these criteria is true, the sample result is considered "non-detect".</u>

- 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		Х		Х	
Activity, +/- uncertainty, MDC/MDA		Х		Х	
Blanks			1	1	
A. Method Blanks		Х		Х	
B. Equipment/Field Blanks		Х		Х	
Carrier (Surrogate) %R		Х		Х	
Tracer (Surrogate) %R		Х		Х	
Laboratory Control Sample (LCS) %R		Х		Х	
Laboratory Control Sample Duplicate (LCSD) %R		Х		Х	
LCS/LCSD Precision (RPD)		Х		Х	
Matrix Spike (MS) %R	Х				Х
Matrix Spike Duplicate (MSD) %R	Х				Х
MS/MSD Precision (RPD)	Х				Х
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

Sknrije Osinger

PEER REVIEW: Joseph C. Houser

DATE: May 8, 2023

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5	YAT-YGWC-49		WG	G		-	-		5	2	3	П		1	П	ı	x	x x	×	1×1	11	+	11	H	pH:			
6	YAT-YGWC-38		WG	G ZB	23 093	d -	-	ø	25-4	3	3	П			П	ı	x	x x	ı x	×	+	+	11	Н	_	5.1	0	118
7	YATAMATOZ YAT-AMA-RU-FO	-2	WG	G 2/8	22 -	1	-	@	No.	3	3	П	$\top$	1	П	ı	$\rightarrow$	x x	+	+	+	+	+	H	pH:	-		1/10
8	YAT-YGWC-41		WG	GZ	23 1630	- (	-	4	90		3	H	1	+	$\Box$	- 1-	$\rightarrow$	x x	t x	1x1	+	+	+	+	-	4.6		311
9	YAT-YGWC-42		WG	G		_	-		5		3	П	_	1	П	- 1-	-	x x	x	x	++	+	++	H	pH:	m/of		,,,,
10	YAT-YGWC-43	7.270	WG	G2 8	23 1800	-		a	95		3	$\Box$		T	П	- 1-	-+	x x	t x	1x1	+	+	+	H	pH:	51	10	612
11	YAT-YAMW-2		WG	G 28	23 1355	3 -	-	a	3		3	П	$\top$	+	П	- 1-	-	x x	x	x	+	+	+	H	pH:		***	513
12	YAT-YAMW-3		WG	G		-	-			2	3	П	$\top$		П	ı	x	x x	x	x	++	+	1	H	pH:	70	(	رار
	ADDITIONAL COMMENTS	RE	UNG	UISHED	BY / AFFILIA	TION	DA	re	T	ME			ACC	EPTE	DBY	IAFT	TILIA	TION	G ST		DATE		TIME		-	PLE CO	ONDITION	MB
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L C-27		V	10	008	wnsic	/Arcadis	10	4>			+	17	10	7	4	_	4	PN		-1	211		2500	-	+			
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Lithium (	(Be), Cadmium (Cd), Chromium (Cr), Cobak (Co), Lead (Li), Molybdenum (Mo), Selenium (Se)	Pb).	an	CW	illiam	Pra	1491	73	12	35	1/	Φ,		. 0		AL	ו אניטה	Ses	-	21	an	2	11>4		Ī	$\neg$		
7040A: N	fercury (Hg). Also add Ca, Na, K for this event.						1	-/-	-		16	t	w		Contract of the last	H		•		- OY	42	<del>2</del>  -		1—	+	$\rightarrow$		
Alkalinit	y - report total, carbonate, and bicarbonate																					1				- 1		
			SAMPL	ER NAME	AND SIĞI	MATURE		4072	1000	Sileni	AL STATE	Nig to	hijes				own.		280000	ar ar	Carlon,	1	+	$\dashv$				
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Section	A d Client Information:	Section E		ė lmėn						Secti		C	atla az															igo :	2		01	2
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Email To	: laucoker@southernco.com	Purchase	A STATE OF THE STA							Pace		Acquire to				***********	-	-	(and the last					-	-						-	
Phone:	470.620.6176 Fax	Project Na	ıma:	Pla	nt Yates	AMA-R	86			Pace	Pro	ject M	anage	r. K	661	làr I	hr	VS	_			100	Alles	SERVE	100	N 2000	Stat	o / Los	etion			PER PUBLISH
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# 15	SAMPLE ID  Solfficial  One Character per box.  (A-Z, 0-9 /, -)  Sample Ide must be unique  Water  College  College  Those	WT	MATRIX CODE (see valid codes to	(G=GRAB	ST/	VRT .	E	ND	LE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	7.			Ne2S203	anol	Annhana Test	App III/V Metals + Ca. Na.		TDS (2540C)	RAD 9315/9320	nity (SM2320B)						dual Chlorine (Y/N)		16	5157	4
TEM			_	-	DATE	TIME	DATE	TIME	SAMPLE	مسمو	_	-	E E	NaOH	Ne.Z	Methano	Other	تسرك	_	-	+	Alkelinity			_	_	Ц	Residua				.1.4
1	YAT-YAMW-4		WG	G	2822	MSZ	-	-		6	3	Ш	3	_				1	()	X	×	X					$\perp$		pН	_		10/01
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6	YAT-PZ-37D		wo	G			-			6	3	П	3	1	1	$\sqcap$	٦	5	( )	X	×	×		П	$\neg$		$\top$		рН	:	Million	alvantana katat
В	YAT-PZ-51		wo	G	****		_	_	1	6	3	$\Box$	3	1	T	П	1	1	7	×	×	×		П	ヿ	$\top$	П		рH	l:		
7	YAT-PZ-52D		wo	G			-	-		6	3	$\Box$	3	T	1			1	,	×	x	×		П	$\neg$	T	$\Box$		pН	l;	***************************************	
8	YAT-PZ-35		wo	G			-	-		6	:3	П	3	T	Τ	П	1	1	( )	( X	x	×	Г	П	$\neg$	T	П		рН	l:		
9	YAT-AMA-R6-EB-1		wo	G				-		6	<b>'3</b>	П	3	T	1	П	Т	1,	( )	×	×	×		П	T		П		рН	1:		
10	YAT-AMA-R6-EB-2		wo	G			-	-		6	3	$\sqcap$	3	T		П		1	()	( x	x	x			$\neg$	T			рН	l:		
11	YAT-AMA-R6-F8-1		wo	G			-	-		6	.3	П	3	T		П		7	( )	( x	×	X							рН	l:		
12	YAT-AMA-R6-FB-2	<i>3</i> 0	wo	G				-		6	3	П	3	Т	Т	П		Б	( )	( x	×	×							рН	l:		
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	Suite 300.0 (Cl, F, Suifate)  Metals: Boron 6020B, Ce 6010D	2	Lops.	enhs	/Arcadis	2010	1/23	1	12		14	IN	10	W	11	1-	.,	18	AC.	_	3	1/2	3	09			$\dagger$	_	-			
App IV: I Beryllium Lithium ( 7040A: I	Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Be) of (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Leac Li), Molybdenum (Mo), Selenium (Se) Mercury (Hg). Also add Ca, Na, K for this event by - report total, carbonate, and bicarbonate	(Pb).	yan	h	);1\1 <sub>A</sub>	~]F	બેલ્ટ	1501	23	-	-36	-	Ø	4	et	Q.		Y	4	L		2	9	2	3	-	35					
			SAMPLE	R NAME	AND SIG	MATUR	2					SUL S		1	10		Cale S	ALL S						u.		8						
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-	<del></del>		_ 3	ঠ	DATE	TIME	DATE	TIME	3	# OF CONTAINERS	Unprese	HNO3	Ę	NaOH	Methanol	Other	<	App III/IV Metals	CI, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity	11	- 1		Ш	Residual Chlonos	į			
1	YAT-YGWC-23S		wo	3 G		951		-		5	2	3		+	十	+		×	X	×		X X	+	+	╁	╁	- 0	+-			-
2	YAT-YAMW-1		wo	3 G	M23	1550		-	G	8	2	3		$\rightarrow$	_	1	1	x	x	х	$\rightarrow$		+	+	+-	╁┤	$\dashv$	pH:	-		
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4	YAT-YGWC-36A		wo	1 4	10/22	1310	_	-	-i	E	2	3		+	+-	+	-	×	-	×	-	×	Н	4	_	$\sqcup$		pH:		e	17
5	YAT-YGWC-49		wo	G	dela-	1/10		<del>  .  </del>		5	2	3	Н	+	┿	+	-	×	$\vdash$	X	-	X	$\sqcup$	$\perp$	1	Ц		pH: <b>≤</b>	5.6	7	018
6	YAT-YGWC-38		WG	G				-		5	2	3	$\vdash$	+	+	╁	1	X	-	X	-+	×	Н	4	+	H	4	pH:			
7	YAT-AMA-FD-2		WG	G			-	1-1	- Serie	5	2	3	Н	+	+	+	1	X	X	-	-	×	$\vdash$	+	+	H	4	pH:			
8	YAT-YGWC-41		WG	G			-			5	2	3	Н		+-	+		x	×	-	-	<del>}</del>	++	+	+	Н	-	pH:			
9	YAT-YGWC-42		wG	G	).			_	-	5	2	3	H	$\top$	╁	╁	ſl	-	x	-	-	<del>`</del>	+	╁	+	H	4	pH:			
10	YAT-YGWC-43		WG	G			-	-		5	2	3		+	+	$\vdash$	1	x	×		-	<del>}</del>	$\vdash$	┰	+	Н	$\dashv$	pH:	·		
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12	YAT-YAMW-3		WG	G			_	-	-	5	2	3	$\dashv$	+	+		H	-	$\frac{\hat{x}}{x}$	-	-	-	$\vdash$	-	4	$\vdash$	-	pH:			
	ADDITIONAL COMMENTS	P	ELING	UISH	ED BY /	AFFILIATI	ON	DAT	E	_	IME	100	routile	ACC	PIE	DEV	// 45	_	_	X	<u> </u>	×				CONTRACT OF		рН:	Anni velici		
Anions S	uite 300.0 (Cl. F, Sulfate)	_	M		7	-		diot	77	10		1	7	-	material or	7.	7		711	1		THE PERSON	DATE		TIME	(CEP)		SAMPLI	COND	ITIONB	decite.
App III M	etals: Boron 6020B, Ca 6010D	$\neg$	In.	1	1000	unsu	/Arcadis	alul	2	12	00	4	2	YY		1	w	$\Rightarrow$	1	16	ad	42	100	31	20	0					
Beryllium	(Be), Cadmium (Cd), Chromium (Cr), Cobatt (Co), Lead	100 1	No.	7	700	4.0						1						1	,			1.									
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7040A. N	lercury (Hg). Also add Ca. Na. K for this event	7		_						- '	_	1	m	4		_	#	-20		_	- /	T'	17	44	40	4	remining.				
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Due Date: 03/02/23

CLIENT: GA-GA Power

Section Requirements	n A ed Client Information:	Section B Required (	Protect	t Informat	ton					tion C															_		2		_
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# WELL	One Cheracter per box. Wos (A-Z, 0-91, -)  Bample ids must be unique Through	MP AR OT TS	MATRIX CODE	SAMPLE TYPE	TE TIME	DATE	TIME	AMPLE TEMP A	# OF CONTAINERS	Unpreserved	HNO3	HCI	NeOH	Ne2S203	Other	Analyses	App III/IV Metals	Cl, F, SO4	TDS (2540C)	WD 9315/9320						Residual Chlorine	926	5157	4
1	YAT-YAMW-4		WG		TE TIME	- DATE	- IIME	ω,	6	3	3	-	2	Z   3	10	100	×	ŭ	-		-	Н	+	$\vdash$	-	ě			
2	YAT-YAMW-5		WG		+	-	-		6	3	3	-	$\vdash$	+	+	1	×	x	-+	x ;	-	$\vdash$	-	+	+	-	ρH:		
3	YAT-PZ-37		WG	G		-	<b>-</b>	_	6	3	3	-	H	+	+	1	×	-	-	<u> </u>	-	$\vdash$	+	+		- 1	pH:		
4	YAT-AMA-R6-FD-3	ENTER TOWARD	WG	G			<b> </b>		6	3	3	-	H	+	+	1	Î	-	-	<u> </u>	-	Н	+	Н		7 1	pH:		
5	YAT-PZ-37D		WG	G		-	_		+	3	3	-	H	-	+	1	×	x	-	x   ;	-	$\vdash$	+	+	+	<b>-1</b>	pH:		
6	YAT-PZ-51		WG	G		-	_		$\vdash$	3	3	-	H	+	+	1	x	_	-	<u>x  </u>	_	-	+	H	+	-1 1	pH:		<del>anii u u i</del>
7	YAT-PZ-52D		WG	G24	PHU ES	-	-	-	+	3	3	-	$\vdash$	+	+-	+	×	-	-	x   ;	+	$\vdash$	+	+	-	7 1	pH:	-1/-	
8	YAT-PZ-35		WG	G		-	-		-	3	3	-	H	+	+	1	x	×	-	X	-	+	+	H	+	1		019	
9	YAT-AMA-R6-EB-1	9.6minonomys 4.	WG	G	***	-	+ 0		6	3	3	-		+	+	+	X	x	-	x x	-	$\vdash$	+	$\vdash$	$\dashv$	7 1	pH: 5	50	
10	YAT-AMA-R6-EB-2		WG	G		-	-	-	6	3	3	1	H	+	+	1	x	x	-	x x	+	$\vdash$	+-	+	+	7	pH:		
11	YAT-AMA-R6-FB-1		WG	62 Q	23 165	5-	-		6	3	3		H	+	+	1	x	x	_	x x	-	$\vdash$	+	╁┼	+	7 1	pH:	<u> </u>	2.70
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Email To	laucoker@southemco.com	Purchase (	A STANSON OF THE STAN		-202301				Addn											11976	ald at	用的联合	學學學	Regul	batory A	ignitry	100000	
Phone:	470.620.6176 Fax	Project Na		Plant Yat	^144	20				Quote			_											1				
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-			1			DATE	TIME	3	0	5 3	HN03	모	NaOH	Med	Other	18	2	12	8	N S				Ш	Res			
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Phone:	470.620.6176 Fax	Project Na	me:	Plant Yat	es AMA-	R6					oct Ma	0000	-12			_	-			-									
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	MATRIX Drinking Wester Waste V	Water DW WT	codes to left)	8	_	COL	LECTED		NOITO		H	F	res	ervativ	/08		N/M		-				1				I					
EM#	SAMPLE ID Source One Character per box. (A-Z, 0-9 / , -) Sample Ida must be unique Tissue	P	MATRIX CODE (see velid	SAMPLE TYPE (G=GRAB	SI	FART		END	SAMPLE TEMP AT COLLECTION	CONTAINERS	perved				8	0	hrees Teat	App IIUTV Metals	×	40C)	15/8320	(SM2320B)						Chlorine (Y/N)		.65		
1	YAT-YGWC-23S	<del>-,</del>	-	-	DATE	TIME	DATE	TIME	SAMP	# OF C	Unpreserved	HZSQ4	2	NaOH	Na2S203	Methanol	Am	App III	Cl. F. SO4	TDS (2540C)	RAD 9315/9320	Alkalinity						Residual	92	.65	15	79
2	YAT-YAMW-1		+-	G			-	_		5	2	3	-	П	T		Т	×	×	х	х	x	_	$\vdash$	$\dashv$	+	+-					
3			WG	G			-	-		5	2	3	1	$\top$	$\neg$	1	1	x	x	x	×	×	+	+	$\dashv$	+	+	1 1	pH:			
	YAT-AMA-FD-1		WG	G			-	-		5	2	3	1	11	$\dashv$	+	1	×	×	×	x	x	+	+	$\dashv$	+	+-1	1 P	pH:			
4	YAT-YGWC-36A		WG	G			-	_		5	2	3		+	+	+	-	-	-		$\overline{}$	-	-	$\vdash$	_	-	$\bot$		pH:			
5	YAT-YGWC-49		WG	G			_	<b> </b> -		5	2	3	+	+	+	+	-	x	X	X	x	×	4	Ц		$\perp$	Ш		pH:			
6	YAT-YGWC-38		WG	G		_	_	<u> </u>		$\vdash$	-		+-	₩	4	_	4	×	-	x	X	X							pH:			
7	YAT-AMA-FD-2		WG	-			-	<u> </u>		5	2	3	+-	₩	+	$\perp$	4	×	-	x	×	x				7/11/2			pH:			
8	YAT-YGWC-41		WG	G				-		-	2	3	+-	+	+	_	4	×	x	x	X	×							pH:			
9	YAT-YGWC-42		WG				_	-		$\vdash$	2	3	+-	$\vdash$	4	$\perp$		X	x	х	x	x						Ī	pH:			
10	YAT-YGWC-43		WG	_						$\vdash$	2	3	-	+	1	_	1	X	x	×	×	x				Τ	П	Į,	pH:		-	
11	YAT-YAMW-2		WG	_				-		$\vdash$	2	3	+-	$\sqcup$			1	x	X	x	x	х		ΙŢ	T		П	Ĭ,	pH:			
12	YAT-YAMW-3		_		2/9/23	iiim		-			2	3						×	x	x	×	×	Т	П	$\top$	7	$\Box$	۳	pH:		7,50 (41)	
	ADDITIONAL COMMENTS		-		THE OWNER OF THE OWNER,	THE REAL PROPERTY.	-	- Company		6	3	3	L		L			x	x	x	x	×	T	П	T	T	$\Box$	۳	H: <	.80	1	25
	The same of the sa	7	LUTH	июн	ED BY //	AFFILIAT	ION	DAT	E E	T	IME			ACC	EPT	ED B	YIAF	FILL	ATTO	N			DAT		71	ME		-	-	CONDI		THE RESERVE AND ADDRESS OF THE PERSON NAMED IN
	itte 300.0 (Cl. F, Sulfate)	1/2	M	LA	41/	2174	/Arcadia	2/10/	23	14	OU	7	F	0.	. 9		. /	Z	il	7		24	12	7	71	FOR	200000	T			10100	
op III Me	elais: Boron 6020B, Ca 6010D	1/10	N S	7	(d			2/10		1		.1.		~in	~		-1	1	_	_	-	71	12	-	$\mathcal{L}$	TUO	╄	1			$\perp$	
040A: M	(Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead ( i), Molybdenum (Mo), Selenium (Se) ercury (Hg). Also add Ca, Na, K for this event. report total, carbonata, and bicarbonata	Pb).		_			رهما		125		400	¥										+		1								
	Washington Co.					TAMPA TO	NAME	AND SIGN	AWAR	5.3523		- prices		CONTRACT OF STREET	-		-				-											
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					-			of SAMP	d	es	Z	ca	-	M	re										-	-mater.	TEMPING		eo pez	è	.   ,	,
		**			L			- GPORP	4	ex	W	m	4	n	124			D	ATE	Sign	ed: ,	2/	10	12	3		TEM		S 2 2	Custody Sealed Cooler	N.V.	Salt i



SDG	DG Sample ID Method		Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92651579				No qu	alifiers a	ssigned	
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 6020		Arsenic	0.0050	mgL	UB	Blank contamination
			Boron	0.076	mgL	UB	Blank contamination

# Abbreviations:

mg/L = milligrams per liter

# Qualifiers:

UB = not detected due to blank contamination





April 14, 2023

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

RE: Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between February 09, 2023 and February 10, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

• Pace Analytical Services - Greensburg

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

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

Sincerely,

angela 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



(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



# **SAMPLE SUMMARY**

Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

92651579001         YAT-YGWC-23S         Water         02/08/23 15:35         02/09/23 12:35           92651579002         YAT-YGWC-42         Water         02/08/23 07:36         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 11:00         02/09/23 12:35           92651579008         YAT-YGWC-38         Water         02/08/23 09:30         02/09/23 12:35           92651579010         YAT-MA-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-YAMW-2         Water         02/08/23 13:55         02/09/23 12:35           92651579013         YAT-YAMW-4         Water         02/08/23 13:55         02/09/23 12:35           92651579015         YAT-YAMW-5	Lab ID	Sample ID	Matrix	Date Collected	Date Received
92651579003         YAT-P2-37         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-P2-37D         Water         02/08/23 13:48         02/09/23 12:35           92651579006         YAT-P2-52D         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 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 13:00         02/09/23 12:35           92651579014         YAT-YAMW-2         Water         02/08/23 14:52         02/09/23 12:35           92651579015         YAT-YAMW-4         Water         02/08/23 15:56         02/10/23 14:00           92651579015         YAT-YAMW-1         Water         02/09/23 15:56         02/10/23 14:00           92651579020         YAT-AMA-R6-FD-1 </th <th>92651579001</th> <th>YAT-YGWC-23S</th> <th>Water</th> <th>02/08/23 15:35</th> <th>02/09/23 12:35</th>	92651579001	YAT-YGWC-23S	Water	02/08/23 15:35	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 11:00         02/09/23 12:35           92651579008         YAT-AMA-R6-FB-2         Water         02/08/23 00:30         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           92651579015         YAT-YAMW-4         Water         02/08/23 13:55         02/09/23 12:35           92651579016         YAT-YAMW-1         Water         02/09/23 15:56         02/10/23 12:35           92651579017         YAT-AMA-R6-FD-1         Water         02/09/23 13:10         02/10/23 14:00           92651579020         YAT-AMA-R6-	92651579002	YAT-YGWC-42	Water	02/08/23 17:36	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           92651579019         YAT-YGWC-38         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 10:58         02/09/23 14:00           92651579017         YAT-AMA-R6-FD-1         Water         02/09/23 10:00         02/10/23 14:00           92651579020         YAT-YGWC-36A	92651579003	YAT-PZ-37	Water	02/08/23 09:46	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 00:00         02/09/23 12:35           92651579010         YAT-AMA-R6-FD-2         Water         02/08/23 16:30         02/09/23 12:35           92651579011         YAT-YGWC-41         Water         02/08/23 16:30         02/09/23 12:35           92651579012         YAT-YAMW-2         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 10:58         02/10/23 14:00           92651579017         YAT-AMA-R6-FD-1         Water         02/09/23 10:00         02/10/23 14:00           92651579020         YAT-YGWC-36A <th>92651579004</th> <th>YAT-AMA-R6-FD-3</th> <th>Water</th> <th>02/08/23 00:00</th> <th>02/09/23 12:35</th>	92651579004	YAT-AMA-R6-FD-3	Water	02/08/23 00:00	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 00:00         02/09/23 12:35           92651579010         YAT-AMA-R6-FD-2         Water         02/08/23 16:30         02/09/23 12:35           92651579011         YAT-YGWC-41         Water         02/08/23 18:00         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 15:56         02/10/23 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 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-QGWC-2	92651579005	YAT-PZ-37D	Water	02/08/23 13:48	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 16:30         02/09/23 12:35           92651579011         YAT-YGWC-41         Water         02/08/23 18:00         02/09/23 12:35           92651579012         YAT-YGWC-43         Water         02/08/23 13:55         02/09/23 12:35           92651579013         YAT-YAMW-2         Water         02/08/23 14:52         02/09/23 12:35           92651579014         YAT-YAMW-4         Water         02/08/23 10:58         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 10:58         02/09/23 12:35           92651579017         YAT-AMA-R6-FD-1         Water         02/09/23 10:56         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         02/09/23 16:01         02/10/23 14:00           92651579022         YAT-AMA-R6-E	92651579006	YAT-PZ-52D	Water	02/08/23 11:16	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 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         02/09/23 16:01         02/10/23 14:00           92651579022         YAT-AMA-R6-EB-2         Water         02/09/23 15:00         02/10/23 14:00           92651579025         YAT-YGWC-49<	92651579007	YAT-AMA-R6-EB-1	Water	02/08/23 18:40	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 10:56         02/10/23 14:00           92651579017         YAT-AMA-R6-FD-1         Water         02/09/23 00:00         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         02/09/23 16:01         02/10/23 14:00           92651579022         YAT-AMA-R6-EB-2         Water         02/09/23 15:00         02/10/23 14:00           92651579025         YAT-YGWC-49         Water         02/09/23 15:00         02/10/23 14:00           92651579025         YAT-YAMW-3 </th <th>92651579008</th> <th>YAT-AMA-R6-FB-2</th> <th>Water</th> <th>02/08/23 11:00</th> <th>02/09/23 12:35</th>	92651579008	YAT-AMA-R6-FB-2	Water	02/08/23 11:00	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 10:58         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           92651579020         YAT-YGWC-36A         Water         02/09/23 16:55         02/10/23 14:00           92651579021         YAT-YGWC-24SB         Water         02/09/23 16:55         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 15:00         02/10/23 14:00           92651579024         YAT-YGWC-49         Water         02/09/23 15:00         02/10/23 14:00           92651579025         YAT-YAMW-3	92651579009	YAT-YGWC-38	Water	02/08/23 09:30	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         02/09/23 15:56         02/10/23 14:00           92651579016         YAT-YAMW-1         Water         02/09/23 00:00         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           92651579023         YAT-PZ-51         Water         02/09/23 16:01         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	92651579010	YAT-AMA-R6-FD-2	Water	02/08/23 00:00	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 16:55         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 15:00         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	92651579011	YAT-YGWC-41	Water	02/08/23 16:30	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	92651579012	YAT-YGWC-43	Water	02/08/23 18:00	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 11:17         02/10/23 14:00           92651579025         YAT-YAMW-3         Water         02/09/23 11:17         02/10/23 14:00	92651579013	YAT-YAMW-2	Water	02/08/23 13:55	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	92651579014	YAT-YAMW-4	Water	02/08/23 14:52	02/09/23 12:35
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	92651579015	YAT-YAMW-5	Water	02/08/23 10:58	02/09/23 12:35
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	92651579016	YAT-YAMW-1	Water	02/09/23 15:56	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	92651579017	YAT-AMA-R6-FD-1	Water	02/09/23 00:00	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	92651579018	YAT-YGWC-36A	Water	02/09/23 13:10	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	92651579020	YAT-AMA-R6-FB-1	Water	02/09/23 16:55	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	92651579021	YAT-YGWC-24SB	Water	02/10/23 09:45	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	92651579022	YAT-PZ-51	Water	02/09/23 16:01	02/10/23 14:00
<b>92651579025 YAT-YAMW-3</b> Water 02/09/23 11:17 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
<b>92651578012</b> YAT-PZ-35 Water 02/09/23 14:48 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



# **SAMPLE ANALYTE COUNT**

Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

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

# **REPORT OF LABORATORY ANALYSIS**



# **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
2651579014	YAT-YAMW-4	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JGH	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2651579015	YAT-YAMW-5	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JGH	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2651579016	YAT-YAMW-1	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JGH	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2651579017	YAT-AMA-R6-FD-1	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JGH	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2651579018	YAT-YGWC-36A	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JGH	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2651579020	YAT-AMA-R6-FB-1	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JGH	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2651579021	YAT-YGWC-24SB	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JGH	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2651579022	YAT-PZ-51	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JGH	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2651579023	YAT-AMA-R6-EB-2	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JGH	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2651579024	YAT-YGWC-49	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JGH	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2651579025	YAT-YAMW-3	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JGH	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2651578012	YAT-PZ-35	EPA 9315	SLC	1	PASI-PA
<del>-</del>		EPA 9320	ZPC	1	PASI-PA

# **REPORT OF LABORATORY ANALYSIS**



# **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



Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Lab Sample ID	Client Sample ID					
Method	Parameters —	Result	Units	Report Limit	Analyzed	Qualifiers
2651579001	YAT-YGWC-23S					
EPA 9315	Radium-226	0.151 ± 0.127	pCi/L		03/06/23 09:37	
		(0.229) C:93% T:NA				
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	
2651579002	YAT-YGWC-42	(0.00.)				
EPA 9315	Radium-226	0.227 ±	pCi/L		03/06/23 09:37	
	Nadidili 220	0.140	PO//L		55/55/25 55.57	
		(0.208) C:91% T:NA				
EPA 9320	Radium-228	0.590 ±	pCi/L		03/01/23 12:28	
		0.338				
		(0.606) C:84%				
		T:87%				
Total Radium Calculation	Total Radium	0.817 ±	pCi/L		03/06/23 15:33	
		0.478 (0.814)				
2651579003	YAT-PZ-37	(,				
EPA 9315	Radium-226	0.257 ±	pCi/L		03/06/23 09:37	
-1710010	radian 220	0.147	PO#2		00/00/20 00:01	
		(0.201) C:88% T:NA				
EPA 9320	Radium-228	0.485 ±	pCi/L		03/01/23 12:28	
		0.350				
		(0.679) C:84%				
		T:84%				
Total Radium Calculation	Total Radium	0.742 ±	pCi/L		03/06/23 15:33	
		0.497 (0.880)				
2651579004	YAT-AMA-R6-FD-3	()				
EPA 9315	Radium-226	0.272 ±	pCi/L		03/06/23 09:37	
	. Iddidili EEO	0.167	P0"L		55,00,20 00.01	
		(0.271) C:88% T:NA				
EPA 9320	Radium-228	0.292 ±	pCi/L		03/01/23 12:28	
		0.293	F = " =			
		(0.600) C:81%				
		T:85%				
Total Radium Calculation	Total Radium	0.564 ±	pCi/L		03/06/23 15:33	
		0.460 (0.871)				

# **REPORT OF LABORATORY ANALYSIS**



Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Lab Sample ID	Client Sample ID					
Method	Parameters —	Result	Units	Report Limit	Analyzed	Qualifiers
92651579005	YAT-PZ-37D					
EPA 9315	Radium-226	1.75 ± 0.420 (0.231)	pCi/L	(	03/06/23 09:37	
EPA 9320	Radium-228	C:88% T:NA 0.621 ± 0.319 (0.549) C:83% T:96%	pCi/L	C		
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	C	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	C	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)	pCi/L	(	03/06/23 08:47	
EPA 9320	Radium-228	C:93% T:NA 0.390 ± 0.337 (0.683) C:85% T:94%	pCi/L	C	03/01/23 12:28	
Total Radium Calculation	Total Radium	0.390 ± 0.448 (0.981)	pCi/L	(	03/06/23 15:33	

# **REPORT OF LABORATORY ANALYSIS**



Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651579009	YAT-YGWC-38					
EPA 9315	Radium-226	0.116 ± 0.127	pCi/L		03/06/23 08:48	
		(0.254) C:89% T:NA				
EPA 9320	Radium-228	0.245 ± 0.342 (0.735)	pCi/L		03/01/23 12:28	
		C:83% T:90%				
Total Radium Calculation	Total Radium	0.361 ± 0.469 (0.989)	pCi/L	1	03/06/23 15:33	
92651579010	YAT-AMA-R6-FD-2	(0.000)				
EPA 9315	Radium-226	0.0510 ± 0.108	pCi/L		03/06/23 08:50	
		(0.253) C:85% T:NA				
EPA 9320	Radium-228	0.903 ± 0.461 (0.825) C:83%	pCi/L	•	03/01/23 12:28	
Total Radium Calculation	Total Radium	T:82% 0.954 ± 0.569	pCi/L		03/06/23 15:33	
	·	(1.08)				
92651579011	YAT-YGWC-41	0.0774	0.11			
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)	pCi/L	,	03/01/23 12:28	
		C:82%				
Total Radium Calculation	Total Radium	T:85% 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)	pCi/L	,	03/06/23 08:53	
		C:84% T:NA				
EPA 9320	Radium-228	0.938 ± 0.402 (0.639) C:78%	pCi/L		03/01/23 16:04	
Total Radium Calculation	Total Radium	T:90% 3.73 ± 0.980 (0.835)	pCi/L		03/06/23 16:18	

# **REPORT OF LABORATORY ANALYSIS**



Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Lab Sample ID	Client Sample ID					
Method	Parameters —	Result	Units	Report Limit	Analyzed	Qualifiers
2651579013	YAT-YAMW-2					
EPA 9315	Radium-226	0.0762 ±	pCi/L		03/06/23 08:53	
		0.133 (0.303)				
		C:89% T:NA				
EPA 9320	Radium-228	0.0232 ± 0.333	pCi/L		03/01/23 16:04	
		(0.771)				
		C:80%				
otal Radium Calculation	Total Radium	T:78% 0.0994 ±	pCi/L		03/06/23 16:18	
Iotal Radium Calculation	Total Naulum	0.466	pC//L		03/00/23 10.10	
		(1.07)				
2651579014	YAT-YAMW-4					
EPA 9315	Radium-226	0.0980 ±	pCi/L		03/06/23 08:54	
		0.110 (0.209)				
		C:71% T:NA				
EPA 9320	Radium-228	0.141 ± 0.283	pCi/L		03/01/23 16:04	
		(0.625)				
		C:76%				
Total Radium Calculation	Total Radium	T:93% 0.239 ±	pCi/L		03/06/23 16:18	
Total Nadidili Galculation	rotarreadium	0.393	po//L		03/00/23 10.10	
		(0.834)				
2651579015	YAT-YAMW-5					
EPA 9315	Radium-226	0.333 ±	pCi/L		03/06/23 08:54	
		0.157 (0.182)				
		C:93% T:NA				
EPA 9320	Radium-228	0.169 ± 0.324	pCi/L		03/01/23 16:05	
		(0.713)				
		C:73%				
Total Radium Calculation	Total Radium	T:84% 0.502 ±	pCi/L		03/06/23 16:18	
		0.481	F =			
		(0.895)				
2651579016	YAT-YAMW-1					
EPA 9315	Radium-226	0.275 ± 0.152	pCi/L		03/06/23 08:54	
		(0.196)				
-DA 0000	D # 000	C:83% T:NA	0:"		00/04/00 : 5 5 5	
EPA 9320	Radium-228	0.320 ± 0.320	pCi/L		03/01/23 16:05	
		(0.655)				
		C:79% T:88%				
Total Radium Calculation	Total Radium	0.595 ±	pCi/L		03/06/23 16:18	
		0.472				
		(0.851)				

# **REPORT OF LABORATORY ANALYSIS**



Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651579017	YAT-AMA-R6-FD-1					
EPA 9315	Radium-226	0.163 ±	pCi/L		03/06/23 08:54	
		0.136 (0.245)				
		C:86% T:NA				
EPA 9320	Radium-228	0.266 ±	pCi/L		03/01/23 16:05	
		0.340 (0.721)				
		C:83%				
T (   D	T I D . I'	T:81%	0:"		00/00/00 40 40	
Total Radium Calculation	Total Radium	0.429 ± 0.476	pCi/L		03/06/23 16:18	
		(0.966)				
92651579018	YAT-YGWC-36A					
EPA 9315	Radium-226	0.178 ±	pCi/L		03/06/23 08:54	
		0.129	•			
		(0.207) C:83% T:NA				
EPA 9320	Radium-228	0.148 ±	pCi/L		03/01/23 16:05	
		0.323	F			
		(0.717)				
		C:80% T:85%				
Total Radium Calculation	Total Radium	0.326 ±	pCi/L		03/06/23 16:18	
		0.452	F			
		(0.924)				
92651579020	YAT-AMA-R6-FB-1					
EPA 9315	Radium-226	-0.0519 ±	pCi/L		03/06/23 08:55	
		0.0489 (0.210)				
		C:85% T:NA				
EPA 9320	Radium-228	0.0468 ±	pCi/L		03/01/23 16:05	
		0.328				
		(0.757) C:74%				
		T:85%				
Total Radium Calculation	Total Radium	0.0468 ±	pCi/L		03/06/23 16:18	
		0.377 (0.967)				
92651579021	YAT-YGWC-24SB	(0.00.)				
EPA 9315	Radium-226	0.137 ±	pCi/L		03/06/23 08:55	
	. tadidiii 220	0.130	PO"L		33,00,20 00.00	
		(0.245)				
EPA 9320	Radium-228	C:79% T:NA -0.0498 ±	nCi/l		03/01/23 16:05	
LI A 3040	Naululli-220	0.327	pCi/L		03/01/23 10.03	
		(0.776)				
		C:76%				
Total Radium Calculation	Total Radium	T:86% 0.137 ±	pCi/L		03/06/23 16:18	
Total Naulum CalculatiOH	iotai Nautuiii	0.457	po/L		03/00/23 10.10	
		(1.02)				

# **REPORT OF LABORATORY ANALYSIS**



Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
			Offics		Analyzeu	Qualifiers
92651579022	YAT-PZ-51					
EPA 9315	Radium-226	0.235 ± 0.133 (0.168)	pCi/L		03/06/23 08:55	
		C:88% T:NA				
EPA 9320	Radium-228	0.232 ± 0.322	pCi/L		03/01/23 16:05	
		(0.689) C:78% T:84%				
Total Radium Calculation	Total Radium	0.467 ±	pCi/L		03/06/23 16:18	
		0.455				
		(0.857)				
92651579023	YAT-AMA-R6-EB-2					
EPA 9315	Radium-226	0.0556 ± 0.0906	pCi/L		03/06/23 08:55	
		(0.200)				
		C:84% T:NA				
EPA 9320	Radium-228	0.177 ± 0.342	pCi/L		03/01/23 16:05	
		(0.753)				
		C:76%				
T. 15 " 01 1"	T. 15 "	T:81%	0:"		00/00/00 40 40	
Total Radium Calculation	Total Radium	0.233 ± 0.433	pCi/L		03/06/23 16:18	
		(0.953)				
92651579024	YAT-YGWC-49					
EPA 9315	Radium-226	0.285 ±	pCi/L		03/06/23 11:17	
		0.157				
		(0.214) C:81% T:NA				
EPA 9320	Radium-228	0.382 ±	pCi/L		03/01/23 16:05	
		0.352	·			
		(0.714) C:78%				
		T:84%				
Total Radium Calculation	Total Radium	0.667 ±	pCi/L		03/06/23 16:18	
		0.509 (0.928)				
92651579025	YAT-YAMW-3	(0.020)				
EPA 9315	Radium-226	1.33 ±	pCi/L		03/06/23 11:17	
FI V 2010	Naululli-220	0.337	poi/L		03/00/23 11.17	
		(0.199)				
EPA 9320	Radium-228	C:94% T:NA 0.860 ±	pCi/L		03/01/23 16:06	
LI A 3020	Naululli-220	0.390	poi/L		03/01/23 10.00	
		(0.648)				
		C:84% T:89%				
Total Radium Calculation	Total Radium	1:89% 2.19 ±	pCi/L		03/06/23 16:18	
	. 3 100 1 100 101 1	0.727	P = " =		23,00,20 10.10	
		(0.847)				

# **REPORT OF LABORATORY ANALYSIS**



Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Lab Sample ID	Client Sample ID					0 177
Method	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	



Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Sample: YAT-YGWC-23S PWS:	<b>Lab ID: 92651</b> Site ID:	<b>579001</b> Collected: 02/08/23 15:35 Sample Type:	Received:	02/09/23 12:35	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	ervices - Greensburg		•	•	
Radium-226	EPA 9315	0.151 ± 0.127 (0.229) C:93% T:NA	pCi/L	03/06/23 09:37	7 13982-63-3	
	Pace Analytical S	ervices - Greensburg				
Radium-228	EPA 9320	0.249 ± 0.299 (0.628) C:84% T:82%	pCi/L	03/01/23 12:23	7 15262-20-1	
	Pace Analytical S	ervices - Greensburg				
Total Radium	Total Radium Calculation	0.400 ± 0.426 (0.857)	pCi/L	03/06/23 15:33	3 7440-14-4	



Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Sample: YAT-YGWC-42 PWS:	Lab ID: 9265 Site ID:	<b>1579002</b> Collected: 02/08/23 17:36 Sample Type:	Received:	02/09/23 12:35	Matrix: Water	
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	7 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	3 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	3 7440-14-4	



Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Sample: YAT-PZ-37 PWS:	Lab ID: 9265 <sup>-</sup> Site ID:	1579003 Collected: 02/08/23 09:46 Sample Type:	Received:	02/09/23 12:35	Matrix: Water	
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	7 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	3 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	3 7440-14-4	



Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Sample: YAT-AMA-R6-FD-3 PWS:	<b>Lab ID: 92651579</b> Site ID:	Ollected: 02/08/23 00:00 Sample Type:	Received:	02/09/23 12:35	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Serv	vices - Greensburg				
Radium-226	EPA 9315	0.272 ± 0.167 (0.271) C:88% T:NA	pCi/L	03/06/23 09:37	7 13982-63-3	
	Pace Analytical Serv	vices - Greensburg				
Radium-228	EPA 9320	0.292 ± 0.293 (0.600) C:81% T:85%	pCi/L	03/01/23 12:28	3 15262-20-1	
	Pace Analytical Serv	vices - Greensburg				
Total Radium	Total Radium Calculation	0.564 ± 0.460 (0.871)	pCi/L	03/06/23 15:33	3 7440-14-4	



Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Sample: YAT-PZ-37D PWS:	<b>Lab ID:</b> 926515 Site ID:	<b>79005</b> Collected: 02/08/23 13:48 Sample Type:	Received:	02/09/23 12:35	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Se	ervices - 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 Se	ervices - Greensburg				
Radium-228	EPA 9320	0.621 ± 0.319 (0.549) C:83% T:96%	pCi/L	03/01/23 12:28	3 15262-20-1	
	Pace Analytical Se	ervices - Greensburg				
Total Radium	Total Radium Calculation	2.37 ± 0.739 (0.780)	pCi/L	03/06/23 15:33	3 7440-14-4	



Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Sample: YAT-PZ-52D PWS:	Lab ID: 9265 Site ID:	Collected: 02/08/23 11:16 Sample Type:	Received:	02/09/23 12:35	Matrix: Water	
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	7 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	3 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	3 7440-14-4	



Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Sample: YAT-AMA-R6-EB-1 PWS:	Lab ID: 9265 Site ID:	1579007 Collected: 02/08/23 18:40 Sample Type:	Received:	02/09/23 12:35	Matrix: Water	
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 09:3	7 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	8 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	3 7440-14-4	



Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Sample: YAT-AMA-R6-FB-2 PWS:	Lab ID: 9265 Site ID:	<b>1579008</b> Collected: 02/08/23 11:00 Sample Type:	Received:	02/09/23 12:35	Matrix: Water	
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	7 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	3 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	3 7440-14-4	



Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Sample: YAT-YGWC-38 PWS:	<b>Lab ID: 9265157</b> Site ID:	<b>'9009</b> Collected: 02/08/23 09:30 Sample Type:	Received:	02/09/23 12:35	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	rvices - Greensburg				
Radium-226	EPA 9315	0.116 ± 0.127 (0.254) C:89% T:NA	pCi/L	03/06/23 08:48	3 13982-63-3	
	Pace Analytical Ser	rvices - Greensburg				
Radium-228	EPA 9320	0.245 ± 0.342 (0.735) C:83% T:90%	pCi/L	03/01/23 12:28	3 15262-20-1	
	Pace Analytical Ser	rvices - Greensburg				
Total Radium	Total Radium Calculation	0.361 ± 0.469 (0.989)	pCi/L	03/06/23 15:33	3 7440-14-4	



Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Sample: YAT-AMA-R6-FD-2 PWS:	Lab ID: 9265 <sup>2</sup> Site ID:	1579010 Collected: 02/08/23 00:00 Sample Type:	Received:	02/09/23 12:35	Matrix: Water	
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	0 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	8 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	3 7440-14-4	



Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Sample: YAT-YGWC-41 PWS:	Lab ID: 9265 Site ID:	<b>1579011</b> Collected: 02/08/23 16:30 Sample Type:	Received:	02/09/23 12:35	Matrix: Water	
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	3 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	3 7440-14-4	



Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Sample: YAT-YGWC-43 PWS:	Lab ID: 9265 Site ID:	<b>1579012</b> Collected: 02/08/23 18:00 Sample Type:	Received:	02/09/23 12:35	Matrix: Water	
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	3 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	4 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	8 7440-14-4	



Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Sample: YAT-YAMW-2 PWS:	Lab ID: 9265 Site ID:	<b>1579013</b> Collected: 02/08/23 13:55 Sample Type:	Received:	02/09/23 12:35	Matrix: Water	
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	3 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	4 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	$0.0994 \pm 0.466  (1.07)$	pCi/L	03/06/23 16:18	3 7440-14-4	



Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Sample: YAT-YAMW-4 PWS:	Lab ID: 9265 Site ID:	<b>1579014</b> Collected: 02/08/23 14:52 Sample Type:	Received:	02/09/23 12:35	Matrix: Water	
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	1 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	3 7440-14-4	



Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Sample: YAT-YAMW-5 PWS:	<b>Lab ID: 92651</b> Site ID:	579015 Collected: 02/08/23 10:58 Sample Type:	Received:	02/09/23 12:35	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	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 S	Services - Greensburg				
Radium-228	EPA 9320	0.169 ± 0.324 (0.713) C:73% T:84%	pCi/L	03/01/23 16:05	5 15262-20-1	
	Pace Analytical S	Services - Greensburg				
Total Radium	Total Radium Calculation	0.502 ± 0.481 (0.895)	pCi/L	03/06/23 16:18	3 7440-14-4	



Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Sample: YAT-YAMW-1 PWS:	Lab ID: 9265 Site ID:	1579016 Collected: 02/09/23 15:56 Sample Type:	Received:	02/10/23 14:00	Matrix: Water	
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	5 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	3 7440-14-4	



Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Sample: YAT-AMA-R6-FD-1 PWS:	Lab ID: 9265 Site ID:	<b>1579017</b> Collected: 02/09/23 00:00 Sample Type:	Received:	02/10/23 14:00	Matrix: Water	
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	4 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 16:0	5 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	3 7440-14-4	



Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Sample: YAT-YGWC-36A PWS:	<b>Lab ID: 9265</b> Site ID:	1579018 Collected: 02/09/23 13:10 Sample Type:	Received:	02/10/23 14:00	Matrix: Water	
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	5 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	3 7440-14-4	



Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Sample: YAT-AMA-R6-FB-1 PWS:	<b>Lab ID: 9265157</b> Site ID:	<b>79020</b> Collected: 02/09/23 16:55 Sample Type:	Received:	02/10/23 14:00	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	rvices - Greensburg				
Radium-226	EPA 9315	-0.0519 ± 0.0489 (0.210) C:85% T:NA	pCi/L	03/06/23 08:55	5 13982-63-3	
	Pace Analytical Ser	rvices - Greensburg				
Radium-228	EPA 9320	0.0468 ± 0.328 (0.757) C:74% T:85%	pCi/L	03/01/23 16:05	5 15262-20-1	
	Pace Analytical Ser	rvices - Greensburg				
Total Radium	Total Radium Calculation	0.0468 ± 0.377 (0.967)	pCi/L	03/06/23 16:18	3 7440-14-4	



Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Sample: YAT-YGWC-24SB PWS:	Lab ID: 9265 Site ID:	<b>1579021</b> Collected: 02/10/23 09:45 Sample Type:	Received:	02/10/23 14:00	Matrix: Water	
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	5 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	5 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	3 7440-14-4	



Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Sample: YAT-PZ-51 PWS:	<b>Lab ID:</b> 92651579 Site ID:	O022 Collected: 02/09/23 16:01 Sample Type:	Received:	02/10/23 14:00	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Serv	rices - 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 Serv	rices - 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 Serv	rices - Greensburg				
Total Radium	Total Radium Calculation	0.467 ± 0.455 (0.857)	pCi/L	03/06/23 16:18	7440-14-4	



Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Sample: YAT-AMA-R6-EB-2 PWS:	Lab ID: 9265	<b>Collected:</b> 02/09/23 17:25 Sample Type:	Received:	02/10/23 14:00	Matrix: Water	
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 08:5	5 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 16:0	5 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	8 7440-14-4	



Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Sample: YAT-YGWC-49 PWS:	Lab ID: 92654 Site ID:	<b>1579024</b> Collected: 02/09/23 15:00 Sample Type:	Received:	02/10/23 14:00	Matrix: Water	
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	7 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 16:0	5 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	8 7440-14-4	



Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Sample: YAT-YAMW-3 PWS:	Lab ID: 9265 Site ID:	<b>1579025</b> Collected: 02/09/23 11:17 Sample Type:	Received:	02/10/23 14:00	Matrix: Water	
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	5 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	



Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Sample: YAT-PZ-35 PWS:	Lab ID: 9265 Site ID:	<b>1578012</b> Collected: 02/09/23 14:48 Sample Type:	Received:	02/10/23 14:00	Matrix: Water	
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	5 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	3 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	7 7440-14-4	



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

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



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

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



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

 $0.353 \pm 0.207$  (0.369) C:83% T:82%

pCi/L

03/03/23 11:44

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



Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

QC Batch: 567128

QC Batch Method:

567128 Analysis Method: EPA 9315 Analysis Description:

Analysis Description: 9315 Total Radium

EPA 9315

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

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



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

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



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

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



### **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

Date: 04/14/2023 02:08 PM

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.



# **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Date: 04/14/2023 02:08 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytic Batch
92651579001	YAT-YGWC-23S	EPA 9315	567130		
2651579002	YAT-YGWC-42	EPA 9315	567130		
2651579003	YAT-PZ-37	EPA 9315	567130		
2651579004	YAT-AMA-R6-FD-3	EPA 9315	567130		
2651579005	YAT-PZ-37D	EPA 9315	567130		
2651579006	YAT-PZ-52D	EPA 9315	567130		
2651579007	YAT-AMA-R6-EB-1	EPA 9315	567130		
2651579008	YAT-AMA-R6-FB-2	EPA 9315	567130		
2651579009	YAT-YGWC-38	EPA 9315	567130		
2651579010	YAT-AMA-R6-FD-2	EPA 9315	567130		
2651579011	YAT-YGWC-41	EPA 9315	567130		
2651579012	YAT-YGWC-43	EPA 9315	567132		
2651579013	YAT-YAMW-2	EPA 9315	567132		
2651579014	YAT-YAMW-4	EPA 9315	567132		
2651579015	YAT-YAMW-5	EPA 9315	567132		
2651578012	YAT-PZ-35	EPA 9315	567128		
2651579016	YAT-YAMW-1	EPA 9315	567132		
2651579017	YAT-AMA-R6-FD-1	EPA 9315	567132		
2651579018	YAT-YGWC-36A	EPA 9315	567132		
2651579020	YAT-AMA-R6-FB-1	EPA 9315	567132		
2651579021	YAT-YGWC-24SB	EPA 9315	567132		
2651579022	YAT-PZ-51	EPA 9315	567132		
2651579023	YAT-AMA-R6-EB-2	EPA 9315	567132		
2651579024	YAT-YGWC-49	EPA 9315	567132		
2651579025	YAT-YAMW-3	EPA 9315	567132		
2651579001	YAT-YGWC-23S	EPA 9320	567131		
2651579002	YAT-YGWC-42	EPA 9320	567131		
2651579003	YAT-PZ-37	EPA 9320	567131		
2651579004	YAT-AMA-R6-FD-3	EPA 9320	567131		
2651579005	YAT-PZ-37D	EPA 9320	567131		
2651579006	YAT-PZ-52D	EPA 9320	567131		
2651579007	YAT-AMA-R6-EB-1	EPA 9320	567131		
2651579008	YAT-AMA-R6-FB-2	EPA 9320	567131		
2651579009	YAT-YGWC-38	EPA 9320	567131		
2651579010	YAT-AMA-R6-FD-2	EPA 9320	567131		
2651579011	YAT-YGWC-41	EPA 9320	567131		
2651579012	YAT-YGWC-43	EPA 9320	567134		
2651579013	YAT-YAMW-2	EPA 9320	567134		
2651579014	YAT-YAMW-4	EPA 9320	567134		
2651579015	YAT-YAMW-5	EPA 9320	567134		
2651578012	YAT-PZ-35	EPA 9320	567129		
2651579016	YAT-YAMW-1	EPA 9320	567134		
2651579017	YAT-AMA-R6-FD-1	EPA 9320	567134		
2651579018	YAT-YGWC-36A	EPA 9320	567134		
2651579020	YAT-AMA-R6-FB-1	EPA 9320	567134		



# **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: Plant Yates AMA-R6 RADS

Pace Project No.: 92651579

Date: 04/14/2023 02:08 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica 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		

Pace SIPPES	C#_Title: ENV-I	FRM-HUN1-0083 v	02_Saı	mple Co	nditio	n Upon Receipt
boratory receiving Asheville	Greenw Client Name:  Fed Ex Pace  Yes  Bubble Wrap	A Powl V  UPS USPS Other:  Seals Intact? [  Bubble Bags [	Yes None	Clie	roject #:	WO#: 92651579  Date/Initials Person Examining Contents 2/9/13  Biological Tissue Frozen:  Yes No N/A
Cooler Temp: 2  Cooler Temp Correcte  JSDA Regulated Soil (  Did samples original (check maps)?	d (°C):  N/A, water sample te in a quarantine zone	e within the United States:	CA, NY, 0	r SC	Did	np should be above freezing to 6°C  Samples out of temp criteria. Samples on ice, cooling process has begun  samples originate from a foreign source (internationally, uding Hawaii and Puerto Rico)?   Yes  No
						Comments/Discrepancy:
Chain of Custody I		- DYES	□No	□N/A	1.	
Samples Arrived w	The second second second	Ves	□No	□N/A	2.	
Short Hold Time A	Analysis (<72 hr.)?	Yes	- BNo	□N/A	3.	
Rush Turn Around	Time Requested?	□Yes	Die	□N/A	4.	
Sufficient Volume	?	eres	□No_	□N/A	5.	
Correct Container	s Used?	Æ7es	□No	□n/a	6.	
-Pace Containe	rs Used?	DYES .	□No	□N/A		
Containers Intact?	}		□No	□N/A	7	
	: Samples Field Filtere		No	□N/A	8.	
Sample Labels Ma	tch COC?	⊟Yes .	□No	□N/A	9.	
-Includes Date/	Time/ID/Analysis M	atrix: W				
Headspace in VOA		□Yes	□No	₫N/A	10.	
Trip Blank Present	t?	□Yes	□No	W/A	11.	
Trip Blank Custod		□Yes	□No	□N/A		
DMMENTS/SAMPLE DIS					ot ID of s	Field Data Required? ☐Yes ☐No  Plit containers:
erson contacted:				Date/Time		

Page 48 of 65

Date:

Project Manager SCURF Review:

Project Manager SRF Review:



DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

WO#: 92651579

PM: BV

Project #

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

\*\*Bottom half of box is to list number of bottles

\*\*\*Check all unpreserved Nitrates for chlorine

1 tea#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)		BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP45-125 mt. Plastic H2SO4 (nH < 2) (CL)	(1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	bran-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (CI-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (CI-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (CI-)	AG15-1 liter Amber H2SO4 (pH < 2)	AG35-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCI (N/A)	VG9T-40 ml. VOA Na252O3 (N/A)	VG9U-40 mt 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)	SPZT-250 mL Sterile Plastig (N/A - lab)	Modin	BP3R-250 mL Plastic (NH2)2504 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (CI-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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	T		ljustment Log for Pres	erveu sampies		
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.

		Alkalinit	Lithium ()	A III day	Anions S	17711100	12	11	10	6	0	7	9	01	b	(4)	2	-	ITEM#			Phone:	Email To:		Addman.	Requi
		Alkalinity - report total, carbonata, and bicarbonate	Beryillum (Be), Cedmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Ll), Molybdenium (Mo), Selanium (Se)	App III Metals: Boron 8020B, Ca 6010D	Anions Suite 300.0 (Cl. F. Sulfate)	COMPANY COMPANY	YAT-YAMW-3	YAT-YAMW-2	YAT-YGWC-43	YAT-YGWC-42	YAT-YGWC-41	YAT-AMA-FD-2	YAT-YGWC-38	YAT-YGWC-49	YAT-YGWC-36A	YAT-AMA-FD-1	YAT-YAMW-1	YAT-YGWC-23S	SAMPLE ID One Character per box. (A-Z, 0-91, -) Sample ids must be unique		traducation one near. S.Q.		ö		Afford CA	۱¥
		_	4	5	2	2													Dehicing Water DW MY Water Wester Wester WWW Product P South Coll Coll Coll Coll Coll Coll Coll Col	- 1	Project Number:	Project Name:	Purchase Order #:	Copy To:	Report To:	Required Project Information:
			3	1	200	LINOU	WG G	WG (	wG o	WG								WG	MATRIX CODE (see valid code			me:	Order #			lž
			T.	20	2	SHED E	1	6	0	6/2	6	6	6	6	6	6		8/20	SAMPLE TYPE  G=GRAB C=	COMP)		Plant \		adis C	SCS Contacts	Informe
	154		1 ×	5	E	RELINQUISHED BY / AFFILIATION	-	Н	_	$\rightarrow$	+	$\dashv$	+	+	+	+	٠	_	START DATE 11			Plant Yates AMA-R6		Arcadis Contacts	acts	tion:
SIGNAT	PRINT		-	Aus	/Arc	HOSTAL			-	1736	+	+	+	+	+	+	$\neg$	-4	M.	COLLECTED	H	MA-R6	1	101		
SIGNATURE of SAMPLER	SAMPLER NAME AND SIGNATURE PRINT Name of BAMPLER:	-	2/	2	Arcadia Z		ŀ	$\dashv$	+	1	+	+	+	+	+	+	1	7	<u> </u>	6	Ш					
MAPLE	SIGNAL		14/23	19/2	19/23	DATE	H	1	4	1	4	'	+	<u>'</u>	4	-	1	-	TIME	$\dashv$						
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2			235	0620	888	EMIL	2	$\rightarrow$	_	2.4	-	+	+	+	+	+	-15	ú	Unpreserved	$\dashv$	Pace Profile #:	Pace Project Manager	Address:	Company Name:	Attention:	Invoice information:
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	7040A: M	Berydlum	App III M	Aniona S	500	12	===	10	9	0	7	9	61	4	23	12	1	ITEM#		7	Reque	Phone:	Email To:		Address.	Raquired
	7040A: Mercury (Hg). Also add Cs, Ns, K for this event. Alkalinity - report total, carbonate, and bicarbonate	App IV: Metals 8020B: Antimony (Sb), Arsonic (As), Barium (Bs), Benyllum (Bs), Cadmium (Cd), Chromium (Cr), Cobst (Co), Lead (Pb), Lithim (IV: Mohadarum (Cd), Chromium (Cr), Cobst (Co), Lead (Pb),	App III Metals: Boron 6020B, Ca 6010D	Aniona Suite 300.0 (Cl. F. Sulfate)	ADDITIONAL COMMENTS	YAT-AMA-R6-FB-2	YAT-AMA-R6-FB-1	YAT-AMA-R6-EB-2	YAT-AMA-R8-EB-1	YAT-PZ-35	YAT-PZ-52D	YAT-PZ-51	YAT-PZ-37D	YAT-AMA-R6-FD-3	YAT-PZ-37	YAT-YAMW-5	YAT-YAMW-4	SAMPLE ID  Sample Ids must be unique  Value  Produ Seess  One Character per box.  (A-Z, 0-0 / , -)  Sample Ids must be unique These	MASTR Deviate		7	: 470.620.6176 Fax	To: laucoker@southemco.com	1	All Power	I₽
		(Pb). Ryan	S. S.	No.	RELINQU	ЭМ			DW	WG	WG	wa	ЭМ	WG	wg	wa	WG	Washed Water WW Washed Water WW W Southead P P Product St. Wide Wide Wide Wide AR AR AR AR AR AR AR AR AR AR AR AR AR	₩ 000€	1000	Project Number	Project Name	Task No: YAT	ıi	Report To: S	Required Project Information:
SAM		William,	The	2000	9.00	0 2/8 11	6	9	67/8 8	1	7/8		6 2/8	67/8	67/9	_	6	SAMPLE TYPE (G=GRAS			Frant Yales AMA-R6		YAT-CCR-ASSMT-202381	Arcadis Contacts	SCS Contacts	ct Information:
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: SIGNATURE of SAMPLER:	-		A TOURS	_	MOTAL	- 00	,	-6	\$	$\top$	11/0	Γ	- 1942		2000		-	RT END	СОЦЕСТЕО		NMA-R6		2381	-		
D BIGMATURE / SAMPLER: SAMPLER:			0	1/0/13	DATE	1	1								+	+	I IMC	AMPLE TEMP AT COLLECTI	ON	-						
(Arcadis) -		285	2000	2/2/2	3 F	-	ω   c	+	-	+		-	n 0	+	+-	+	, L	OF CONTAINERS Inpreserved		Paca Prof	Pace Proj	Pace Quote:	Address	Company Name	INVOICE I	Section C
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DATE Signed: 7 / 2 / 7 >	-	1 20	2/2		×	+	-	×	×	×	×	×	-	×	×	×	•	D 9315/9320 alinity (SM2320B)	eated Analys	-	1	Section 2	H	Ш		
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r/N) ustody ealed coler	1	-	-	SAMPLE CONDITIONS						6.12		7.95		51.8				M5/549		ACCOUNT OF THE		9		1	7	
Y/N) samples tact (/N)		+		SMOE	6154			620		000		828	UC10)	500				157		STANSON STANSON		SAN SOUNDS		1	7	



DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

aboratory receiving samples:					
Asheville Eden Greenwood Hu	ntersvill	e 🗌	Raleigh	Me	chanicallia COCE4570
Sample Condition Client Name: Upon Receipt	0./		Pr	oject #:	WO#: 92651579  Due Date: 03/02/23
Courier: Fed Ex TUPS	USPS	-	Clien	-	PM: BV Due Date: 00/01/20
Commercial Pace	Other:		Пспел		CLIENT: GR-GR 1000
Custody Seal Present? Yes No Seals Inte	act? [	Yes	□No		Date/Initials Person Examining Contents 2/9/13
Packing Material: Bubble Wrap Bubble Thermometer: 2 Acc	Bags [	None	Oth	er	Biological Tissue Frozen?  Yes No N/A
12 mc - 12 1 1 4	Type of Ice:	TAM	/et □Blue	e 🗀	done ·
Cooler Temp: 2 C Correction Factor: Add/Subtract (°C)  Cooler Temp Corrected (°C): Z C	40	<u></u>			p 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 Uni (check maps)? Yes No	ted States:	CA, NY, o	r SC		amples originate from a foreign source (internationally, ding Hawaii and Puerto Rico)?   Yes   No
(circle maps): [] tes [] tes					Comments/Discrepancy:
Chain of Custody Present?	Elxes	□No	□N/A	1.	
Samples Arrived within Hold Time?	Pes	□No	□N/A	2	
Short Hold Time Analysis (<72 hr.)?	□Yes	[]No-	□N/A	3.	
Rush Turn Around Time Requested?	□Yes	DNO	□N/A	4	
Sufficient Volume?	erres	□No	□N/A	5	
Correct Containers Used?	₽ Yes	□No	□N/A	6.	
-Pace Containers Used?	DYES DYES	□No	□N/A □N/A	7.	
Containers Intact?		□No	□N/A	8.	
Dissolved analysis: Samples Field Filtered?  Sample Labels Match COC?	☐Yes '⊟Tes	□No	□N/A	9.	
-Includes Date/Time/ID/Analysis Matrix:	W		الل	•	
Headspace in VOA Vials (>5-6mm)?	□Yes	□No	3N/A	10.	
Trip Blank Present?	Yes	□No	DN/A	11.	
	□Yes	Пио	□N/A		
Trip Blank Custody Seals Present?  COMMENTS/SAMPLE DISCREPANCY					Field Data Required? ☐ Yes ☐ No
			Lo	ot ID of sp	olit containers:
CLIENT NOTIFICATION/RESOLUTION					
Person contacted:			Date/Time:	_	
Project Manager SCURF Review:				-	Date:
Project Manager SRF Review:			_		Date:



DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Colliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

Project #

WO#: 92651579

PM: BV

Due Date: 03/02/23

CLIENT: GA-GA Power

- \*\*Bottom half of box is to list number of bottles
- \*\*\*Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (CI-)	8P3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP45-125 mL Plastic H2SO4 (pH < 2) (CI-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP48-125 mL Plastic NaOH (pH > 12) (CI-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (CI-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (CI-)	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 HCI (N/A)	VG9T-40 mL VOA Na252O3 (N/A)	VG9U-40 mt 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 – iab)	BPIN	BP3R-250 mL Plastic (NH2)2504 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (CI-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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12	/				/	/	/	/			/		/	/	/													

		pH Ac	ljustment Log for Pres	erved 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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	7040A: N Alkalinit	Lithium (I	App III M	Aniona S		12	11	10	9	0	7	0	Ch	4	Ça	N	-	ITEM#		Reques	Phone: O		Address:	Company:	Section A Required
	7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalfnity - report total, carbonate, and bicarbonete	Beryflum (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Seienium (Se)	App III Metals: Boron 6020B, Ca 6010D	Anions Suite 300.0 (Cl. F. Sulfate)	ADDITIONAL COMMENTS	YAT-YAMW-3	YAT-YAMW-2	YAT-YGWC-43	YAT-YGWC-42	YAT-YGWC-41	XATAMATOZ YAT-MMA-RO-FO-	YAT-YGWC-38	YAT-YGWC-49	YAT-YGWC-36A	YAT-AMA-FD-1	YAT-YAMW-1	YAT-YGWC-23S	SAMPLE ID  One Character per box.  (A-Z, 0-9 1, -)  Sample ids must be unique  Unique	310 10	788	A70 820 8176 ISS		Atlanta, GA	GA Power	Client Information:
	-	Man C	でいる	M	RELINQUISH	wg g	WG G	WG GZ	wg g	we e	2 wg 6	wg g	wg G	wg G	wg G	we e	wa a	로 약 및 및 유무 및 및 및 및 및 및 및 및 및 및 및 및 및 및 및 및	Project Number:	1	*	Task No: YAT-CCR		Report To: SCS C	Section B Required Project Information:
SAMPLER PRIN SIGN	. 4	William /P	Meuhusd	1	RELINQUISHED BY / AFFILIATION			003 82/8/20		28/23/16/20		28/23 093d						START START DATE		Plant Yates AMA-R6		YAT-CCR-ASSMT-202351	Arcadis Contacts	SCS Contacts	mution:
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: SIGNATURE of SAMPLER:		Ru 2/9/23	4 2/5/2	Arcadis 292	M DATE	1	1	1	1	1	ŧ	1	1	1	1	1	-	TIME	-						
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DATE Signed: 7/K/		Jah.	14/1	2/5/	DATE	×	×	×	×	× ×	$\rightarrow$	×	-	×	×	× ×	×	RAD 9315/9320 Alkalinity (SMZ320B)		Name of the last					
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TEMP in C  Received on loe (Y/N)  Custody Sealed Cooler (Y/N)  Samples lintact (Y/N)					SAMPLE CONDITIONS		7200	見いること		S COL		21.5 Ha	로 [	<del>2</del> ]:	± ]:	P. I	- Ho	Residual Chlorine (Y/N)  Residual Chlorine (Y/N)	Georgia	State / Location		bry Agency		2	-

	E A S	₹ .	pp III e	nions		12	2	10	9	ga .	7	0	G.	4	63	2	1	ITEM#		due	Phone:	Email To:	00.00	Company	Section A Required
	Baryllium (Ba), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead Lithium (Li), Majodenum (Mo), Selenium (Se) 7040A: Mercury (Hg), Also add Ca, Na, K for this event, Alkallnity - report total, carbonate, and bicarbonate	App IV: Metats 6020B: Antimony (Sb), Arsenic (As), Berium (Bs),	App III Metals: Boron 8020B, Ca 6010D	Anions Suite 300.0 (Cl. F. Suffate)	ADDITIONAL COMMENTS	YAT-AMA-R6-FB-2	YAT-AMA-R6-FB-1	YAT-AMA-R6-EB-2	YAT-AMA-R6-EB-1	YAT-PZ-35	YAT-PZ-52D	YAT-PZ-51	YAT-PZ-37D	YAT-AMA-R6-FD-3	YAT-PZ-37	YAT-YAMW-5	YAT-YAMW-4	SAMPLE ID  Solution  One Character per box.  (A-Z, 0-01, -)  Sample Ide must be unique  Ten		Requested Due Date: STRTAT		o: [aucoker@southernco.com	Position, GA	ny GA Power	CH
	(P <sub>B</sub> )							7					100					Orricing Water OW Weller Weller WW Product St. Co. Co. Co. Co. Co. Co. Co. Co. Co. Co		Project Number:	Project Name:	Purchase Order#:	Tack No:	Report To:	Section B Required Project information:
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(Arcadis) -	,	7	b	a	m													H2SO4		Pace Profile #:	Pace Project Manager: [SWM]	9	Address:		Section C Invalce information:
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MO#: 92651579		Alkalinity - report total, carbonate, and bicarbonate	Lithium (U), Molybdenum (Mo), Selenium (Se), Couest (Vo), Lead (FD), 7040A. Mercury (Hg). Also add Ca. Na. K for this event	App III Melais: Boron 6020B, Ca 6010D  Benyilium (Be), Cadmium (Cd), Chromium (Cr), Cobat (Co), Lac.	Anions Suite 300.0 (Cl. F. Sulfate)		ADDITIONAL COMMENTS	YAT-YAMW-3	YAT-YAMW-2	YAT-YGWC-43	YAT-YGWC-42	YAT-YGWC-41	YAT-AMA-FD-2	YAT-YGWC-38	YAT-YGWC-49	YAT-YGWC-36A	TATEMATO! NOT LEET DO TO	YAT-YAMW-1	YAT-YGWC-23S	DLE ID ter per box. 19 /) nust be unique	MATE Davids		XE 743	led Due Date:	470 620 6476		П	any: GA Power	Required Cilent Information:
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CLIENT: GR-GR Power

PM: BV

Due Date: 03/02/23

Page 56 of 65

-		7040A: N	Beryllium	App III M	Anions S	Part of Gro	21	3	10	9	8	7	0	ca	4	w	12	1	ITEM#		Vodos	Phone:	Email To:		Company:	Requir
PM: BV Due Date:	WO#:92651579	7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkelinity - report total, carbonate, and bicarbonate	App IV: Melais 6020B: Antimony (Sb), Arsenic (As), Berium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Coball (Co), Lead Hithim (I) Mahadesum (da), Chromium (Cr), Coball (Co), Lead	App III Metals: Boron 60208, Ca 6010D	Aniona Sulte 300.0 (Cl. F. Sulfate)	ADMI IDMAL COMMENTS	YAI-AMA-R6-FB-2	YAT-AMA-R6-FB-1	YAT-AMA-R6-EB-2	YAT-AMA-R6-EB-1	YAT-PZ-35	YAT-PZ-52D	YAT-PZ-51	YAT-PZ-37D	YAT-AMA-R6-FD-3	YAT-PZ-37	YAT-YAMW-5	YAT-YAMW-4	SAMPLE ID  Solution  Character per box  (A-Z, 0-9 / , )  Bample ide must be unique  Two	us.	vertineered one care: SFG TIAT	470.620.6176 Fax	П	- 1	ny: GA Power	۱¥
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	App IV: Me Beryllum (I) Lithium (Li) 7040A: Me Alicalinity -	App III Me	Anions Sui		12	11	10	9	69	7	0	g)	4	မ	N	1	ITEM#			Requests	Phone:	Email To	Address:	Required (
	App IV. Metais 60208: Antirrony (5b), Arsenic (As), Berlum (Be), Beryllium (Be), Cadelium (Cd), Chromium (Cr), Cobell (Co), Lead (Pb), Lithium (Ll), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alitalinity - raport total, carbonate, and bicarbonate	App III Metals: Boron 60208, Ca 6010D	Aniona Suite 300.0 (Cl. F. Sulfate)	ADDITIONAL COMMENTO												YAT-YGWC-24SB	SAMPLE ID One Character per box. (A-Z, 0-9 / ,-) Sample ids must be unique			Requested Due Date: Cho	470 620 6176 Fax		Atlanta, GA	Required Client Information: Company: GA Power
	1	Ŀ	1														Dehydrig Wisser DW WY Water William WW WW Product P Soffold St Ot Ot Other Wisser Wisser W W Product P Soffold Ot Other TS			Project Number	Purchase Order #:	Task No:	Copy To:	Required Project Information:
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age 58 of 65

		App IV: Meta Beryflum (Be Lithium (Li), N 7040A: Merci Alkalinity - n	App III Metat	Anions Sutte	拉提拉斯	ATI ZE	1000		S 1999	8 YA	7 1	e Ya	8 Y	4 1/4	3 1/	N Y	3 1	ITEM#				Requested	Email To:		Address
		App IV. Metals 80208: Antimony (Sb), Arsenic (As), Berium (Ba), Beryllum (Be), Cadmium (Cd), Citromium (Cr), Cobett (Co), Leed (Pb), Lithium (Ll), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alitalinity - report total, carbonate, and bicarbonate	App III Metals: Boron 6020B, Ca 6010D	Aniona Suite 300.0 (Cl. F., Suifate)	AUDITORAL COMMERTS	TAI-AMA-K6-F8-2	YAT-AMA-R6-FB-1	YAT-AMA-R6-EB-2	YAT-AMA-R6-EB-1	YAT-PZ-35	YAT-PZ-52D	YAT-PZ-51	YAT-PZ-37D	YAT-AMA-R6-FD-3	YAT-PZ-37	YAT-YAMW-5	YAT-YAMW-4	One Character per box. (A-Z, 0-01,-) Sample ids must be unique				Requested Due Date: St. 1) Fax	laucokar@southernco.com	r spanished Co.	Allanta GA
		, Lead (Pb).	1														The second secon	ı	Wither WT Wants Water WW Product P SoffGold St. Ot.		Project Number	Project Name:	Purchase Order #:	Task No:	Report Ta:
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				N	MENED	6	6	62/	9	a	0	6 2	6	6	6	6	6		(G=GRAB C	COMP)	1	Plant		CCRA	SCO
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			7040A: N	Beryllium	Apo III N	Anions S	Name of Street	12	1	ô	8	8	7	o	ca	4	w	N	<b> </b> -	ITEM#	7	Vedue	Priorie.	Email 10		Address	Company	Required (
		monny report was, carponate, and picarponate	Lithium (Li), Molybdenum (Mo), Selenium (Sa) 7040A. Mercury (Hg). Also add Ca, Na, K for this event.	Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb),	Istals: Boron 6020B Ca 60100	Anions Suite 300.0 (Ct. F. Sulfate)	ADDITIONAL COMMENTS	YAT-YAMW-3	YAT-YAMW-2	YAT-YGWC-43	YAT-YGWC-42	YAT-YGWC-41	YAT-AMA-FD-2	YAT-YGWC-38	YAT-YGWC-49	YAT-YGWC-36A	YAT-AMA-FD-1	YAT-YAMW-1	YAT-YGWC-23S	SAMPLE ID  One Character per box.  (AZ, 0-91, -)  Sample Ids must be unique  Teau		requested Due Date: STO TAT		o. laucoker@souther			any GA Power	Section A Required Citent Information:
				and (Pb)	1	NAT!	RELINQUISI	wg g	wg g	же с	же е	wg g	wc c	же с	wg g	wg G	ме е	wg G	we e	MATRIX CODE (see valid codes to left  SAMPLE TYPE (G=GRAB C=COMP)		Project Number:	Project Name: PI	Purchase Order #:		Copy To: Arcad	Ιŝ	Section B
SIG	PR			Mr semy		1	RELINGUISHED BY I AFFILIATION								24/23/500					START TIME	T		Plant Yates AMA-R6		YAT-CCR-ASSMT-2023S1	Arcadis Contacts	formation:	e.
SIGNATURE of SAMPLER:	PRINT Name of SAMPLER:			10112 10113	Maria Cara	0	TON DATE	1	1	1	;	:	1	,	1	1	1	1	:	COLLECTED  T END  TOTAL TIME			R6					
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THE LAKE	2		12	Too Clank	The same	75 /band	TIME ACCEPTED	ω	3		1	7	1	1	1	7		2 3	2 3	Unpreserved H2SO4 HNO3 HCI NeOH Na2S2O3	11	6	Pace Project Manager: Ronnie	Pace Quote:	Address	Attention: Southern Co.	19	Section C
A CAY				o Treat	m the	10	BY / AFFILIA	-	$\dashv$	_	+	+	+	+	+		-	+	-	Methanol Other Analyses Test Y/N App III/IV Metals U. F. SO4		S. S. S. S.	nie Vann					
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ice (Y/N) Custody Sealed Cooler (Y/N) Samples							SAMPLE CONDITIONS	PH:	PH:	PH.	pH:	PH:	pH:	5.61		PH:	PH	PH:		61651574	The state of the s			ency		1	2	
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	Jithium (I 7040A: N Wikelinity	160	A STATE OF	Artes 6		12	11	10	9	00	7	6	Ol	4	es	140	-	ITEM#		11	Requ	Phone:		Address:	
	cerynium (99), Catmium (Cd), Chromium (Cr), Cobett (Co), Lead (Pb), Lithium (Li), Molybebarum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate	App III Melais: Boron 6020B, Ca 6010D	Amana Surie Soulo (Ci. F. Suffete)	4-3000	ADDITIONAL COMMENTS	YAT-YAMW-3	YAT-YAMW-2	YAT-YGWC-43	YAT-YGWC-42	YAT-YGWC-41	YAT-AMA-FD-2	YAT-YGWC-38	YAT-YGWC-49	YAT-YGWC-36A	YAT-AMA-FD-1	YAT-YAMW-1	YAT-YGWC-23S	SAMPLE ID One Character per box. (AZ. 0-97) Sample lds must be unique			od Du	a: 470 630 6476		Atlanta, GA	Required Client Information:
	Lead (Pb),	100	CARL STATE OF THE	1						<								MATHOX CODE Drobusy Water Water Water Water Product of Product of OIL Wips AV OT Titalose 178		Project Number:	Project Name:	인	Teak No:	Raport To:	Section B Raquired Project Information:
		3	1	1							_	$\overline{}$	$\neg$	_			**	MATRIX CODE (see valid codes to le SAMPLE TYPE (G=GRAB C=COM			1 1	der#	YAT-C	SCS	oject
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(M. 3/2/23

### Face Analytical"

# Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

2/27/2023 Ra-228 JJS1 71484 WT Analyst: Date: Worklist: Matrix:

2754456 0.301 0.288 0.581 2.05 Warning M/B 2 Sigma CSU: MB MDC: MB Sample ID MB concentration:

Method Blank Assessmen

MB Numerical Performance Indicator:

MB Status vs Numerical Indicator: MB Status vs. MDC:

Laboratory Control Sample Assessment

	Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSI
	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):		
48	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:		

		and out of the second of the s
SD (Y or N)?	¥	MSD Spike Uncerta
LCS71484	LCSD71484	
3/1/2023	3/1/2023	Sample Result 2 Sigma C
22-040	22-040	Sample Mai
33.389	33,389	Matrix Spike Result 2 Sigma C
0.10	0.10	Sample Matrix Spike
0.807	0.809	Matrix Spike Duplicate Result 2 Sigma C
4.139	4.127	MS Numerical Perfor
0.203	0.202	MSD Numerical Perfor
4.239	3.636	MSP
0.991	0.862	A DSM
0.19	-1.09	MS Status vs Nur
102.40%	88.09%	MSD Status vs Nui
N/A	N/A	MS Sta
Pass	Pass	MSD Sta
135%	135%	WS/WSD Upper %
%09	%09	WS/MSD Lower %

Volume Used (mL): Aliquot Volume (L, g, F): Target Conc. (pCi/L, g, F):

Uncertainty (Calculated):
Result (pCi/L, g, F):
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):
Numerical Performance Indicator:

Count Date: Spike I.D.: Decay Corrected Spike Concentration (pCi/mL):

Percent Recovery: Status vs Recovery: Status vs Numerical Indicator:

Upper % Recovery Limits: Lower % Recovery Limits:

**Duplicate Sample Assessment** 

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:	:i.wi
	Enter Duplicate	sample IDs if	other than	LCS/LCSD in	the space below.							

Sample I.D.:

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 (pCi/l, g, F):

LCS71484 LCSD71484 4.239 4.239 3.636 0.862 NO 0.899 15.02% Pass Pass

Are sample and/or duplicate results below RL?

Duplicate Numerical Performance Indicator:

(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:

Duplicate Status vs Numerical Indicator:

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.

Duplicate Status vs RPD: % RPD Limit:

Comments:

### Pace Analytical"

### Quality Control Sample Performance Assessment

127/2023 71486 WT JGH Test: Date: Worklist: Matrix: **Analyst**:

MS/MSD 2

MS/MSD 1

Sample I.D. Sample MS I.D.

Sample Collection Date

Sample Matrix Spike Control Assessment

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):

Analyst Must Manually Enter All Fields Highlighted in Yellow.

0.602 -2.37 Warning Pass -0.267 0.220 MB concentration: M/B 2 Sigma CSU: MB MDC: MB Sample ID MB Numerical Performance Indicator:

Method Blank Assessmen

MB Status vs. MDC: Laboratory Control Sample Assessmen

MB Status vs Numerical Indicator:

MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits: Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): MS Numerical Performance Indicator: 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 MSD Percent Recovery MS Status vs Recovery MSD Status vs Recovery MSD Numerical Performance Indicator MS Percent Recovery MS Status vs Numerical Indicator MSD Status vs Numerical Indicator 22-040 33.388 0.10 0.806 4.144 0.203 3.505 0.834 -1.46 N/A Pass 135% 60%

37.1/2023 22-040 33.388 0.10 0.805 4.146 0.203 2.972

Volume Used (mL): Aliquot Volume (L, g, F): Target Conc. (pCi/L, g, F):

Uncertainty (Calculated): Result (pCi/L, g, F):

LCS/LCSD 2 Sigma CSU (pCi/L, g, F):

Numerical Performance Indicator:

Decay Corrected Spike Concentration (pCi/mL):

Count Date:

Spike I.D.

71.69%

Percent Recovery: Status vs Recovery:

Status vs Numerical Indicator

Upper % Recovery Limits: Lower % Recovery Limits:

Duplicate Sample Assessment

-2.87 ٨ Matrix Spike/Matrix Spike Duplicate Sample Assessment Enter Duplicate LCS/LCSD in he space belov sample IDs if other than LCS71486 CSD71486 2.972 0.774 3.505 0.834 NO -0.918 16.49% Pass Pass Sample Result (DCI/L, g, F):
Sample Result 2 Sigma CSU (DCI/L, g, F):
Sample Duplicate Result (DCI/L, g, F):
Sample Duplicate Result 2 Sigma CSU (DCI/L, g, F):
Are sample and/or duplicate results below RL? Sample I.D.: Duplicate Sample I.D. Duplicate Numerical Performance Indicator: (Based on the LCS/LCSD Percent Recoveries) Duplicate RPD: Duplicate Status vs Numerical Indicator: Duplicate Status vs RPD: % RPD Limit:

Sample I.D. Sample MS I.D. Sample MSD I.D. Sample Matrix Spike Result: MS/ MSD Duplicate Status vs RPD: % RPD Limit 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): (Based on the Percent Recoveries) MS/ MSD Duplicate RPD: Duplicate Numerical Performance Indicator MS/ MSD Duplicate Status vs Numerical Indicator

## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

52/1/2 MM

# **Quality Control Sample Performance Assessment**

Ra-226	SLC 2/24/2023 71483	WŢ
Test:	Analyst: Date: Worklist	Matrix:

Face Analytical"

2754452 -0.027 0.086 0.277 -0.62 Pass N/A

MB Numerical Performance Indicator: MB Status vs Numerical Indicator: MB Status vs. MDC:

MB Sample ID MB concentration: M/B 2 Sigma CSU: MB MDC:

Method Blank Assessmen

Analyst Must Manually Enter All Fields Highlighted in Yellow.

MS/MSD 2																													
MS/MSD 1																													
Sample Matrix Spike Control Assessment	Sample Collection Date:	Sample 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:
													λ.	LCSD71483	3/6/2023	19-033	24.019	0.10	0.505	4.755	0.057	4.773	0.884	0.04	100.37%	Pass	A/A	125%	75%

D (Y or N)7 CS71483 3/6/2023 19-033 24.019 0.10 0.504 4.767 0.057 5.059

Volume Used (mL):

Count Date: Spike I.D.:

Laboratory Control Sample Assessment

Decay Corrected Spike Concentration (pCi/mL.):

0.62 106.12%

Percent Recovery Status vs Numerical Indicator

Aliquot Volume (L. g. F):
Target Conc. (pCil., g, F):
Uncertainty (Calculated):
Result (pCil., g, F):
LCS/LCSD 2 Sigma CSU (pCil., g, F):
Numerical Performance Indicator:

Pass N/A 125% 75%

Status vs Recovery. Upper % Recovery Limits: Lower % Recovery Limits:

Uplicate Sample Assessment			Matrix Spike/Matrix Spike Duplica
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	Matrix Spike R
Sample Duplicate Result 2 Sigma CSU (pCi/L, q, F):	0.884	0.103	Sampl
Are sample and/or duplicate results below RL?	9	See Below ##	Matrix Spike Duplicate R
Duplicate Numerical Performance Indicator:	0.440	1.471	Duplicate N
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	2.57%	111.19%	(Based on the Percent Recov
Duplicate Status vs Numerical Indicator:	Pass	Pass	MS/ MSD Duplicat
Duplicate Status vs RPD:	N/A	N/A	MS
% RPD Limit:	25%	25%	

te Result 2 Sigma CSU (pCi/L, g, F): te Numerical Performance Indicator: scoveries) MS/ MSD Duplicate RPD: illicate Status vs Numerical Indicator: MS/ MSD Duplicate Status vs RPD: %RPD Limit: Sample I.D. Sample MS I.D. Sample MSD I.D. Result 2 Sigma CSU (pCi/L, g, F): ple Matrix Spike Duplicate Result: Sample Matrix Spike Result: cate Sample Assessment

## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

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TAR\_71483\_W Total Alpha Radium (ENV-FRM-GBUR-0142 R0).xls

### Pace Analytical www.paceabos.com

# **Quality Control Sample Performance Assessment**

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Ra-226	SLC	2/24/2023	71485	M
Test:	Analyst:	Date:	Worklist:	Matrix:

Ra-226	SLC 2/24/2023 71485 DW	
Test:	Analyst: Date: Worklist: Matrix:	

Method Blank Assessment

Inchica Digity 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	
		1
Laboratory Control Sample Assessment	LCSD (Y or N)?	
	100	

MS/MSD 2																													
MS/MSD 1																													
Sample Matrix Spike Control Assessment	Sample Collection Date:	Sample I.D.	Sample MSD LD.	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:
													Y	SSD71485	3/6/2023	19-033	24.019	0.10	0.502	4.784	0.057	5.531	0,540	2.70	115.61%	X	Pass	125%	75%

<u></u>		
	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%

Matrix Spike/Matrix Spike Duplicate Sample Assessment	Sample I.D. Sample MSI.D. Sample MSI.D. Sample MSI.D. Sample MATIX Spike Result Matrix Spike Duplicate Result Matrix Spike Duplicate Result Counting Uncertainty (pCifl., 9, F): Duplicate Result 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: MS/ MSD Duplicate Status vs RPD:
	92651579012 92651579012DUP 2.791 0.414 3.168 0.432 See Below ## -1.235 12.65% NA NA Pass 25%
	Sample I.D.: LCS71485 (pCif., g. F):
plicate Sample Assessment	Sample I.D.: Sample Result (DGIL. 9, F): Sample Result (DGIL. 9, F): Sample Duplicate Result (DGIL. 9, F): Sample Duplicate Result (DGIL. 9, F): Are sample and/or duplicate Results below RL? Duplicate Numerical Performance Indicator: (Based on the LCS/LCSD Percent Recoveries) Duplicate RPD: Duplicate Status vs Numerical Indicator: Duplicate Status vs Numerical RPD: Duplicate Status vs Numerical RPD:

Duplicate Sample Assessment

## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:



UAM3/4/23

TAR\_71485\_W Total Alpha Radium (ENV-FRM-GBUR-0142 R0).xls





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

Bonnie Vaing

(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

Becky Steever, Arcadis Tina Sullivan, ERM Albert Zumbuhl, Arcadis





### **CERTIFICATIONS**

Project: Plant Yates AMA-R6

Pace Project No.: 92651580

**Pace Analytical Services Charlotte** 

South Carolina Laboratory ID: 99006 South Carolina Certification #: 99006001

9800 Kincey Ave. Ste 100, Huntersville, NC 28078 South Carolina Drinking Water Cert. #: 99006003

North Carolina Drinking Water Certification #: 37706 Florida/NELAP Certification #: E87627 North Carolina Field Services Certification #: 5342 Kentucky UST Certification #: 84 North Carolina Wastewater Certification #: 12 Louisiana DoH Drinking Water #: LA029

South Carolina Laboratory ID: 99006

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804 South Carolina Laboratory ID: 99030 Florida/NELAP Certification #: E87648 South Carolina Certification #: 99030001

North Carolina Drinking Water Certification #: 37712 Virginia/VELAP Certification #: 460222 North Carolina Wastewater Certification #: 40

**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/VELAP Certification #: 460221



### **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



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92651580001	YAT-YGWC-23S	EPA 6010D		4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651580002	YAT-YGWC-42	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651580003	YAT-PZ-37	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651580004	YAT-AMA-R6-FD-3	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651580005	YAT-PZ-37D	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651580006	YAT-PZ-52D	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651580007	YAT-AMA-R6-EB-1	EPA 6010D	MS	4

### **REPORT OF LABORATORY ANALYSIS**



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 6020B		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

### **REPORT OF LABORATORY ANALYSIS**



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A		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

### **REPORT OF LABORATORY ANALYSIS**



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2540C-2015	 DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651580021	YAT-YGWC-24SB	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651580022	YAT-PZ-51	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651580023	YAT-AMA-R6-EB-2	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651580024	YAT-YGWC-49	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651580025	YAT-YAMW-3	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651576012	YAT-PZ-35	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1

### **REPORT OF LABORATORY ANALYSIS**



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



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Lab Sample ID	Client Sample ID					
Method	Parameters	Result _	Units	Report Limit	Analyzed	Qualifiers
2651580001	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	
	рН	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	
PA 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	
PA 6020B	Chromium	0.0014J	mg/L	0.0050	02/24/23 12:57	
PA 6020B	Lithium	0.0028J	mg/L	0.030	02/24/23 12:57	
PA 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	
PA 300.0 Rev 2.1 1993	Chloride	2.0	mg/L	1.0	02/11/23 17:05	
PA 300.0 Rev 2.1 1993	Sulfate	78.0	mg/L	1.0	02/11/23 17:05	M1
2651580002	YAT-YGWC-42					
	Performed by	Client			03/03/23 10:10	
	Collected By	Jessica			03/03/23 10:10	
		Ware				
	Collected Date	02/08/23			03/03/23 10:10	
	Collected Time	17:36	0.1.11.1.		03/03/23 10:10	
	pH	5.48	Std. Units		03/03/23 10:10	
PA 6010D	Calcium	74.6	mg/L	1.0	02/22/23 17:56	
PA 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	
PA 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	
PA 6020B	Barium	0.023	mg/L	0.0050	02/24/23 13:03	
PA 6020B	Beryllium	0.000062J	mg/L	0.00050	02/24/23 13:03	
PA 6020B	Boron	14.5	mg/L	0.40	02/25/23 14:00	
PA 6020B	Cadmium	0.00014J	mg/L	0.00050	02/24/23 13:03	
PA 6020B	Cobalt	0.0018J	mg/L	0.0050	02/24/23 13:03	
PA 6020B	Lithium	0.046	mg/L	0.030	02/24/23 13:03	
PA 6020B	Molybdenum	0.00081J	mg/L	0.010	02/24/23 13:03	
PA 6020B	Selenium	0.041	mg/L	0.0050	02/24/23 13:03	
M 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	
PA 300.0 Rev 2.1 1993	Chloride	3.4	mg/L	1.0	02/11/23 17:48	
PA 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	



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
2651580003	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	
	pН	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	
PA 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	
PA 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	
2651580004	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	
PA 6020B	Boron	7.7	mg/L	0.040	02/24/23 13:15	
PA 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		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	
2651580005	YAT-PZ-37D		3			
	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		02/22/23 18:10	

### **REPORT OF LABORATORY ANALYSIS**



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Lab Sample ID	Client Sample ID					
Method	Parameters	Result _	Units	Report Limit	Analyzed	Qualifier
2651580005	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	
PA 6010D	Magnesium	10.1	mg/L	0.050	02/22/23 18:10	
PA 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	
PA 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	
PA 300.0 Rev 2.1 1993	Chloride	33.5	mg/L	1.0	02/11/23 19:01	
PA 300.0 Rev 2.1 1993	Fluoride	0.20	mg/L	0.10	02/11/23 19:01	
PA 300.0 Rev 2.1 1993	Sulfate	177	mg/L	4.0	02/12/23 05:14	
2651580006	YAT-PZ-52D		-			
	Performed by	Client			03/03/23 10:27	
	Collected By	Jessica			03/03/23 10:27	
		Ware				
	Collected Date	02/08/23			03/03/23 10:27	
	Collected Time	11:16			03/03/23 10:27	
	рН	6.12	Std. Units		03/03/23 10:27	
PA 6010D	Calcium	22.9	mg/L	1.0	02/22/23 18:15	
PA 6010D	Potassium	7.8	mg/L	0.20	02/22/23 18:15	
PA 6010D	Sodium	45.0	mg/L	1.0	02/22/23 18:15	
PA 6010D	Magnesium	44.4	mg/L	0.050	02/22/23 18:15	
PA 6020B	Arsenic	0.0032J	mg/L	0.0050	02/24/23 14:24	
PA 6020B	Barium	0.012	mg/L	0.0050	02/24/23 14:24	
PA 6020B	Boron	1.2	mg/L	0.040	02/24/23 14:24	
PA 6020B	Cobalt	0.0026J	mg/L	0.0050	02/24/23 14:24	
PA 6020B	Lithium	0.025J	mg/L	0.030	02/24/23 14:24	
PA 6020B	Molybdenum	0.0050J	mg/L	0.010	02/24/23 14:24	
PA 6020B	Selenium	0.0057	mg/L	0.0050	02/24/23 14:24	
M 2540C-2015	Total Dissolved Solids	542	mg/L	25.0	02/13/23 16:52	
M 2320B-2011	Alkalinity, Bicarbonate (CaCO3)	36.2	mg/L	5.0	02/16/23 20:13	
M 2320B-2011	Alkalinity, Total as CaCO3	36.2	mg/L	5.0	02/16/23 20:13	
PA 300.0 Rev 2.1 1993	Chloride	2.0	mg/L	1.0	02/11/23 19:15	
PA 300.0 Rev 2.1 1993	Fluoride	0.070J	mg/L	0.10	02/11/23 19:15	
PA 300.0 Rev 2.1 1993	Sulfate	279	mg/L		02/12/23 05:28	
2651580007	YAT-AMA-R6-EB-1		J			
PA 6020B	Arsenic	0.0034J	mg/L	0.0050	02/24/23 14:30	
2651580008	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		02/13/23 16:53	
2651580009	YAT-YGWC-38					

### **REPORT OF LABORATORY ANALYSIS**



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
2651580009	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	
	рН	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	
2651580010	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	
2651580011	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		

### **REPORT OF LABORATORY ANALYSIS**



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Lab Sample ID	Client Sample ID					
Method	Parameters	Result _	Units	Report Limit	Analyzed	Qualifiers
2651580011	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	
PA 6020B	Beryllium	0.0013	mg/L	0.00050	02/24/23 14:54	
PA 6020B	Boron	3.3	mg/L	0.040	02/24/23 14:54	
PA 6020B	Lithium	0.0021J	mg/L	0.030	02/24/23 14:54	
PA 6020B	Selenium	0.027	mg/L	0.0050	02/24/23 14:54	
M 2540C-2015	Total Dissolved Solids	257	mg/L	25.0	02/13/23 16:55	
PA 300.0 Rev 2.1 1993	Chloride	4.0	mg/L	1.0	02/13/23 23:51	
PA 300.0 Rev 2.1 1993	Sulfate	119	mg/L	2.0	02/14/23 13:10	
2651580012	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	
	рН	5.40	Std. Units		03/03/23 10:34	
PA 6010D	Calcium	11.0	mg/L	1.0	02/22/23 18:54	
PA 6010D	Potassium	6.5	mg/L	0.20	02/22/23 18:54	
PA 6010D	Sodium	18.3	mg/L	1.0	02/22/23 18:54	
PA 6010D	Magnesium	25.8	mg/L	0.050	02/22/23 18:54	
PA 6020B	Arsenic	0.0033J	mg/L	0.0050	02/24/23 15:00	
PA 6020B	Barium	0.031	mg/L	0.0050	02/24/23 15:00	
PA 6020B	Beryllium	0.00036J	mg/L	0.00050	02/24/23 15:00	
PA 6020B	Boron	2.5	mg/L	0.040	02/24/23 15:00	
PA 6020B	Cobalt	0.00049J	mg/L	0.0050	02/24/23 15:00	
PA 6020B	Lithium	0.015J	mg/L	0.030	02/24/23 15:00	
PA 6020B	Molybdenum	0.0016J	mg/L	0.010	02/24/23 15:00	
M 2540C-2015	Total Dissolved Solids	333	mg/L	25.0	02/13/23 16:55	
M 2320B-2011	Alkalinity, Bicarbonate (CaCO3)	33.9	mg/L	5.0	02/17/23 12:07	
M 2320B-2011	Alkalinity, Total as CaCO3	33.9	mg/L	5.0	02/17/23 12:07	
PA 300.0 Rev 2.1 1993	Chloride	2.4	mg/L	1.0	02/14/23 00:06	
PA 300.0 Rev 2.1 1993	Fluoride	0.11	mg/L	0.10	02/14/23 00:06	
PA 300.0 Rev 2.1 1993	Sulfate	164	mg/L	3.0	02/14/23 13:25	
2651580013	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	
	рН	5.95	Std. Units		03/03/23 10:35	
PA 6010D	Calcium	1.2	mg/L	1.0	02/22/23 18:58	
PA 6010D	Potassium	0.69	mg/L	0.20	02/22/23 18:58	
PA 6010D	Sodium	6.7	mg/L	1.0	02/22/23 18:58	
PA 6010D	Magnesium	2.0	mg/L	0.050	02/22/23 18:58	
PA 6020B	Barium	0.0064	mg/L	0.0050	02/24/23 15:06	
PA 6020B	Beryllium	0.000055J	mg/L	0.00050	02/24/23 15:06	
PA 6020B	Boron	0.031J	mg/L	0.040	02/24/23 15:06	

### **REPORT OF LABORATORY ANALYSIS**



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
			Office	- Roport Limit	Analyzed	Qualificis
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	
2651580014	YAT-YAMW-4					
	Performed by	Client			03/03/23 10:36	
	Collected By	Jessica			03/03/23 10:36	
	·	Ware				
	Collected Date	02/08/23			03/03/23 10:36	
	Collected Time	14:52			03/03/23 10:36	
	рН	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	
2651580015	YAT-YAMW-5		···g. =			
2031300013	Performed by	Client			03/03/23 10:36	
	Collected By	Jessica			03/03/23 10:36	
	Collected by	Ware			03/03/23 10.30	
	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	0.0050	02/24/23 15:18	
EPA 6020B	Boron	6.5	•	0.00030	02/24/23 15:18	
	Cadmium	0.00046J	mg/L	0.00050	02/24/23 15:18	
EPA 6020B			mg/L			
PA 6020B	Lithium	0.014J	mg/L	0.030	02/24/23 15:18	

### **REPORT OF LABORATORY ANALYSIS**



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Lab Sample ID	Client Sample ID					
Method	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	
2651580016	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	
	рН	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	
2651580017	YAT-AMA-R6-FD-1					
EPA 6010D	Calcium	29.0	mg/L	1.0	02/23/23 17:36	
EPA 6010D	Potassium	9.0	mg/L	0.20	02/23/23 17:36	
EPA 6010D	Sodium	20.4	mg/L	1.0	02/23/23 17:36	
EPA 6010D	Magnesium	23.4	mg/L	0.050	02/23/23 17:36	
EPA 6020B	Arsenic	0.0036J	mg/L	0.0050	02/24/23 15:46	
EPA 6020B	Barium	0.081	mg/L	0.0050	02/24/23 15:46	
EPA 6020B	Beryllium	0.00013J	mg/L	0.00050	02/24/23 15:46	
EPA 6020B	Boron	0.66	mg/L	0.040	02/24/23 15:46	
EPA 6020B	Cobalt	0.0046J	mg/L	0.0050	02/24/23 15:46	
EPA 6020B	Lithium	0.020J	mg/L	0.030	02/24/23 15:46	
EPA 6020B	Selenium	0.0050	mg/L	0.0050	02/24/23 15:46	
SM 2540C-2015	Total Dissolved Solids	344	mg/L	25.0	02/16/23 19:18	
SM 2320B-2011	Alkalinity, Bicarbonate (CaCO3)	28.6	mg/L	5.0	02/17/23 19:42	
SM 2320B-2011	Alkalinity, Total as CaCO3	28.6	mg/L	5.0	02/17/23 19:42	
EPA 300.0 Rev 2.1 1993	Chloride	5.4	mg/L	1.0	02/14/23 23:06	

### **REPORT OF LABORATORY ANALYSIS**



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Lab Sample ID	Client Sample ID					
Method	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	
2651580018	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	
	рН	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	
PA 6010D	Magnesium	4.0	mg/L	0.050	02/23/23 17:41	
PA 6020B	Arsenic	0.0047J	mg/L	0.0050	02/24/23 15:52	
PA 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	
PA 6020B	Boron	0.028J	mg/L	0.040		
EPA 6020B	Lithium	0.0010J	mg/L	0.030		
PA 6020B	Selenium	0.0027J	mg/L	0.0050	02/24/23 15:52	
M 2540C-2015	Total Dissolved Solids	116	mg/L	25.0	02/16/23 19:19	
M 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	
PA 300.0 Rev 2.1 1993	Chloride	5.9	mg/L	1.0	02/14/23 23:21	
PA 300.0 Rev 2.1 1993	Sulfate	50.8	mg/L	1.0	02/14/23 23:21	
2651580020	YAT-AMA-R6-FB-1	00.0	g/ L	1.0	02,11,20 20.21	
PA 6020B	Arsenic	0.0045J	mg/L	0.0050	02/24/23 15:58	
		0.00430	mg/L	0.0030	02/24/23 13:30	
2651580021	YAT-YGWC-24SB	Ol' t			00/00/00 40 00	
	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	
PA 6010D	Potassium	1.0	mg/L	0.20	02/23/23 17:51	ВС
PA 6010D	Sodium	9.3	mg/L	1.0	02/23/23 17:51	20
PA 6010D	Calcium	2.4	mg/L	1.0	02/23/23 17:51	
PA 6010D	Magnesium	1.8	mg/L		02/23/23 17:51	
PA 6020B	Arsenic	0.0035J	mg/L	0.0050		
PA 6020B	Barium	0.031	mg/L	0.0050	02/24/23 16:04	
PA 6020B	Beryllium	0.000054J	mg/L	0.00050		
	Total Dissolved Solids	66.0	mg/L	25.0		
M 2540C-2015	. J.ai Biodolfoa Jollao	12.6	mg/L		02/17/23 19:58	
	Alkalinity Bicarbonate (CaCO3)		1119/ 🗀	0.0	32,,20 10.00	
SM 2540C-2015 SM 2320B-2011 SM 2320B-2011	Alkalinity, Bicarbonate (CaCO3)  Alkalinity, Total as CaCO3			5.0	02/17/23 10:58	
SM 2320B-2011 SM 2320B-2011	Alkalinity, Total as CaCO3	12.6	mg/L	5.0 1.0	02/17/23 19:58	
				1.0	02/17/23 19:58 02/15/23 00:51 02/15/23 00:51	

### **REPORT OF LABORATORY ANALYSIS**



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
2651580022	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	
	рН	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	
PA 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	
PA 300.0 Rev 2.1 1993	Chloride	4.7	mg/L	1.0	02/15/23 01:05	
PA 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	
2651580023	YAT-AMA-R6-EB-2					
PA 6020B	Boron	0.027J	mg/L	0.040	02/25/23 14:53	
2651580024	YAT-YGWC-49					
	Performed by	Client			03/03/23 10:40	
	Collected By	Jessica			03/03/23 10:40	
		Ware				
	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	
PA 6010D	Calcium	11.8	mg/L	1.0	02/23/23 18:15	
PA 6010D	Potassium	1.8	mg/L	0.20	02/23/23 18:15	
PA 6010D	Sodium	17.2	mg/L	1.0	02/23/23 18:15	
PA 6010D	Magnesium	8.0	mg/L	0.050	02/23/23 18:15	
PA 6020B	Barium	0.063	mg/L		02/27/23 20:32	
PA 6020B	Beryllium	0.00012J	mg/L	0.00050	02/27/23 20:32	
PA 6020B	Boron	0.014J	mg/L	0.040		
PA 6020B	Chromium	0.0020J	mg/L	0.0050	02/27/23 20:32	
PA 6020B	Lithium	0.0033J	mg/L	0.030		
PA 6020B	Selenium	0.0054	mg/L	0.0050		
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		
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	
PA 300.0 Rev 2.1 1993	Sulfate	71.1	mg/L	1.0	02/15/23 02:20	

### **REPORT OF LABORATORY ANALYSIS**



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
2651580025	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	
	рН	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	
2651576012	YAT-PZ-35		9.=			
	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		8.0	_	0.050	02/22/23 21:27	
	Magnesium	0.0028J	mg/L			
EPA 6020B	Arsenic		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		
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	



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

Sample: YAT-YGWC-23S	Lab ID:	92651580001	Collecte	d: 02/08/23	15:35	Received: 02/	09/23 12:35 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	-	ytical Services	- Charlotte						
Performed by	Client				1		03/03/23 10:09		
Collected By	Jessica				1		03/03/23 10:09		
Collected Date	Ware 02/08/23				1		03/03/23 10:09		
Collected Time	15:35				1		03/03/23 10:09		
Н	5.33	Std. Units			1		03/03/23 10:09		
6010D ATL ICP	Analytical	Method: EPA 6	010D Prej	paration Met	hod: EF	PA 3010A			
	-	ytical Services							
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 6	020B Prep	paration Met	hod: EF	PA 3005A			
	Pace Anal	ytical Services	- Peachtre	e Corners, G	βA				
antimony	ND	mg/L	0.0030	0.00078	1	02/23/23 17:01	02/24/23 12:57	7440-36-0	
rsenic	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	
.ead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 12:57	7439-92-1	
ithium	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		
-hallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 12:57	7440-28-0	
470 Mercury	Analytical	Method: EPA 7	470A Prep	aration Met	hod: EP	A 7470A			
	Pace Anal	ytical Services	- Peachtre	e Corners, G	SA				
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 25	540C-2015						
	Pace Anal	ytical Services	- Peachtre	e Corners, G	SA.				
Total Dissolved Solids	158	mg/L	25.0	25.0	1		02/13/23 16:49		
2320B Alkalinity	Analytical	Method: SM 23	320B-2011						
•	-	ytical Services							
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		



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

Sample: YAT-YGWC-23S	Lab ID:	92651580001	Collected	d: 02/08/23	3 15:35	Received: 02	2/09/23 12:35 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	-	Method: EPA 3 ytical Services		1 1993					
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



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

Sample: YAT-YGWC-42	Lab ID:	92651580002	Collecte	ed: 02/08/23	3 17:36	Received: 02/	09/23 12:35 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical I	Method:							
		tical Services	- Charlotte						
Parformed by	Client				1		03/03/23 10:10		
Performed by Collected By	Jessica				1		03/03/23 10:10		
Collected By	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		
Н	5.48	Std. Units			1		03/03/23 10:10		
6010D ATL ICP	Analytical I	Method: EPA 6	010D Pre	paration Met	hod: EF	PA 3010A			
	Pace Analy	tical Services	- Peachtre	e Corners, C	<b>S</b> A				
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 I	Method: EPA 6	020B Prep	paration Met	hod: EF	PA 3005A			
	Pace Analy	tical Services	- Peachtre	e Corners, C	βA				
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	
_ead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 13:03		
∟ithium	0.046	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 13:03		
Molybdenum	0.00081J	mg/L	0.010	0.00074	1	02/23/23 17:01			
Selenium	0.041	mg/L	0.0050	0.0014	1	02/23/23 17:01			
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 13:03	7440-28-0	
7470 Mercury		Method: EPA 7				A 7470A			
	Pace Analy	tical Services	- Peachtre	e Corners, C	€A				
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	•	Method: SM 25							
	Pace Analy	tical Services	- Peachtre	e Corners, C	βA				
Total Dissolved Solids	853	mg/L	25.0	25.0	1		02/13/23 16:49		
2320B Alkalinity	Analytical I	Method: SM 23	20B-2011						
	Pace Analy	tical 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		



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

Sample: YAT-YGWC-42	Lab ID:	92651580002	Collected	d: 02/08/23	17:36	Received: 02	2/09/23 12:35 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	•	Method: EPA 3 ytical Services		1 1993					
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	



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

Sample: YAT-PZ-37	Lab ID:	92651580003	Collecte	ed: 02/08/23	09:46	Received: 02/	09/23 12:35 Ma	atrix: Water	
			Report						
Parameters	Results _	Units	Limit	MDL .	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical 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		
ρΗ	5.15	Std. Units			1		03/03/23 10:11		
6010D ATL ICP	Analytical	Method: EPA 6	010D Prep	paration Met	hod: EF	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, G	βA				
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 6	020B Prep	paration Met	hod: EF	PA 3005A			
	-	lytical Services							
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		
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	
.ead	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	
Nolybdenum	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 7	470A Prep	paration Met	nod: EF	PA 7470A			
-	Pace Ana	lytical Services	- Peachtre	e Corners, G	βA				
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 25	40C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, G	βA				
otal Dissolved Solids	822	mg/L	25.0	25.0	1		02/13/23 16:50		
2320B Alkalinity	Analytical	Method: SM 23	20B-2011						
	Pace Ana	lytical 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		



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

Sample: YAT-PZ-37	Lab ID:	92651580003	Collecte	d: 02/08/23	3 09:46	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	•	Method: EPA 3 ytical Services		1 1993						
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		



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

Sample: YAT-AMA-R6-FD-3	Lab ID:	92651580004	Collecte	ed: 02/08/23	00:00	Received: 02/	09/23 12:35 N	latrix: Water	
_			Report						_
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
6010D ATL ICP	Analytical	Method: EPA 6	010D Pre	paration Met	hod: EF	A 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, G	SA.				
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 6	020B Pre	paration Met	hod: EF	A 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, G	<b>S</b> A				
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/23 17:01	02/24/23 13:15		
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 7	470A Prej	paration Met	hod: EP	A 7470A			
•	Pace Ana	lytical Services	- Peachtre	e Corners, G	βA				
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 25	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	SA.				
Total Dissolved Solids	884	mg/L	25.0	25.0	1		02/13/23 16:51		
2320B Alkalinity	Analytical	Method: SM 23	320B-2011						
	Pace Ana	lytical 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 3	00.0 Rev 2	2.1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	3.8	mg/L	1.0	0.60	1		02/11/23 18:17	16887-00-6	
	ND	mg/L	0.10	0.050	1		02/11/23 18:17		
Fluoride	INI		U. IU						



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

Sample: YAT-PZ-37D	Lab ID:	92651580005	Collected: 02/08/23 13:48			Received: 02/09/23 12:35 Matrix: Wat			
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
		ytical Services	- Charlotte						
Performed by	Client				1		03/03/23 10:12		
Collected By	Jessica				1		03/03/23 10:12		
	Ware				•		00/00/20 10:12		
Collected Date	02/08/23				1		03/03/23 10:12		
Collected Time	13:48				1		03/03/23 10:12		
ρΗ	7.95	Std. Units			1		03/03/23 10:12		
6010D ATL ICP	Analytical	Method: EPA 6	010D Pre	paration Met	hod: EF	PA 3010A			
	Pace Anal	ytical Services	- Peachtre	e Corners, G	€A				
Calcium	55.2	mg/L	1.0	0.12	1	02/21/23 17:00			
Potassium	12.4	mg/L	0.20	0.15	1	02/21/23 17:00			
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 6	020B Prep	paration Met	hod: EP	A 3005A			
	-	ytical Services							
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	
-ead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 13:39		
∟ithium	0.0088J	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 13:39		
Molybdenum	0.0024J	mg/L	0.010	0.00074	1	02/23/23 17:01			
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/23 17:01			
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 13:39	7440-28-0	
7470 Mercury		Method: EPA 7				A 7470A			
	Pace Anal	ytical Services	- Peachtre	e Corners, G	€A				
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 25	40C-2015						
	Pace Anal	ytical Services	- Peachtre	e Corners, G	SA.				
Total Dissolved Solids	477	mg/L	25.0	25.0	1		02/13/23 16:52		
2320B Alkalinity	Analytical	Method: SM 23	20B-2011						
	Pace Anal	ytical 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		



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

Sample: YAT-PZ-37D	Lab ID:	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	•	Method: EPA 3 ytical Services		1 1993					
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	



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

Sample: YAT-PZ-52D	Lab ID:	92651580006	Collecte	ed: 02/08/23	11:16	Received: 02/	/09/23 12:35 Ma	atrix: Water	
			Report						
Parameters	Results -	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
		lytical Services	- Charlotte						
Performed by	Client				1		03/03/23 10:27		
Collected By	Jessica				1		03/03/23 10:27		
·	Ware								
Collected Date	02/08/23				1		03/03/23 10:27		
Collected Time	11:16	Oct Hair			1		03/03/23 10:27		
Н	6.12	Std. Units			1		03/03/23 10:27		
6010D ATL ICP	Analytical	Method: EPA 6	010D Prep	paration Met	hod: EF	PA 3010A			
	Pace Ana	lytical Services	<ul> <li>Peachtre</li> </ul>	e Corners, G	βA				
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 6	020B Prer	paration Met	hod: EF	PA 3005A			
		lytical Services							
Intimony	ND	mg/L	0.0030	0.00078	1	02/23/23 17:01	02/24/23 14:24	7440 26 0	
Arsenic	0.0032J	mg/L	0.0050	0.00076	1	02/23/23 17:01	02/24/23 14:24		
Barium	0.012	mg/L	0.0050	0.00022	1	02/23/23 17:01	02/24/23 14:24		
Beryllium	ND	mg/L	0.0050	0.00007	1	02/23/23 17:01	02/24/23 14:24		
Boron	1.2	mg/L	0.040	0.0086	1	02/23/23 17:01	02/24/23 14:24		
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 14:24		
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/23 17:01	02/24/23 14:24		
Cobalt	0.0026J	mg/L	0.0050	0.00039	1	02/23/23 17:01	02/24/23 14:24		
.ead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 14:24		
ithium	0.025J	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 14:24		
Nolybdenum	0.0050J	mg/L	0.010	0.00073	1	02/23/23 17:01	02/24/23 14:24		
Selenium	0.0057	mg/L	0.0050	0.00074	1	02/23/23 17:01	02/24/23 14:24		
-hallium	ND	mg/L	0.0030	0.0014	1	02/23/23 17:01	02/24/23 14:24		
		-							
7470 Mercury	-	Method: EPA 7				A 7470A			
		lytical Services							
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 25	40C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
otal Dissolved Solids	542	mg/L	25.0	25.0	1		02/13/23 16:52		
2320B Alkalinity	Analytical	Method: SM 23	20B-2011						
- · · · · · · · · · · · · · · · · · · ·	-	lytical Services							
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		
Tinamility, Total as CaCOS	30.2	my/L	5.0	5.0	1		02/10/23 20.13		



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

Sample: YAT-PZ-52D	Lab ID:	Collected: 02/08/23 11:16			Received: 02	atrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	•	Method: EPA 3 ytical Services		1 1993					
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	



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

Sample: YAT-AMA-R6-EB-1	Lab ID:	92651580007	Collected: 02/08/23 18:40			Received: 02/	09/23 12:35 M	Matrix: Water				
			Report					0.0				
Parameters	Results	Units -	Limit	MDL .	DF	Prepared	Analyzed	CAS No.	Qua			
6010D ATL ICP	Analytical	Method: EPA 6	010D Pre	paration Met	hod: EF	PA 3010A						
	Pace Anal	ytical Services	- Peachtre	e Corners, G	iΑ							
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										
			- Peachtre		ıΑ							
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/23 17:01	02/24/23 14:30					
Arsenic	0.0034J	mg/L	0.0050	0.0022	1	02/23/23 17:01	02/24/23 14:30					
Barium	ND	mg/L	0.0050	0.00067	1	02/23/23 17:01	02/24/23 14:30					
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/23 17:01	02/24/23 14:30					
Boron	ND	mg/L	0.040	0.0086	1	02/23/23 17:01	02/24/23 14:30					
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 14:30					
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/23 17:01	02/24/23 14:30					
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/23 17:01	02/24/23 14:30					
_ead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 14:30					
Lithium	ND	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 14:30					
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/23 17:01	02/24/23 14:30					
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/23 17:01	02/24/23 14:30					
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 Anal	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 25	540C-2015									
	Pace Anal	ytical Services	- Peachtre	e Corners, G	iΑ							
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/13/23 16:53					
2320B Alkalinity	Analytical Method: SM 2320B-2011											
	Pace Anal	ytical 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 Anal	ytical 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					
Sulfate	ND	mg/L	1.0	0.50	1		02/11/23 19:30					



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

Sample: YAT-AMA-R6-FB-2	Lab ID: 9	2651580008	Collecte	ed: 02/08/23	11:00	Received: 02/	09/23 12:35 N	latrix: Water				
			Report									
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua			
6010D ATL ICP	Analytical M	lethod: EPA 6	010D Pre	paration Met	hod: EF	PA 3010A						
	Pace Analyt	ical Services	- Peachtre	e Corners, G	iΑ							
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 M	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					
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					
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 14:36					
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 Analyt	ical Services	- Peachtre	e Corners, G	iΑ							
Mercury	ND	mg/L	0.00020	0.00013	1	03/02/23 09:00	03/02/23 14:42	2 7439-97-6				
2540C Total Dissolved Solids	Analytical M	lethod: SM 25	40C-2015									
	Pace Analyt	ical Services	- Peachtre	e Corners, G	iΑ							
Total Dissolved Solids	84.0	mg/L	25.0	25.0	1		02/13/23 16:53	3				
2320B Alkalinity	Analytical M	lethod: SM 23	20B-2011									
	Pace Analyt	ical Services	- Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/16/23 20:34	1				
Alkalinity, Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/16/23 20:34	1				
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/16/23 20:34	1				
300.0 IC Anions 28 Days	Analytical M	lethod: EPA 3	00.0 Rev 2	2.1 1993								
	Pace Analyt	ical 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					
Sulfate	ND	mg/L	1.0	0.50	1		02/11/23 19:44					



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

Sample: YAT-YGWC-38	Lab ID:	92651580009	Collecte	d: 02/08/23	09:30	Received: 02/	09/23 12:35 N	fatrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Anal	ytical Services	- Charlotte						
Performed by	Client				1		03/03/23 10:28	3	
Collected By	Jessica				1		03/03/23 10:28		
	Ware								
Collected Date	02/08/23				1		03/03/23 10:28		
Collected Time	09:30	0.1.1.			1		03/03/23 10:28		
ρΗ	5.16	Std. Units			1		03/03/23 10:28	3	
6010D ATL ICP	•	Method: EPA 6				A 3010A			
	Pace Anal	ytical Services	- Peachtree	e Corners, G	βA				
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 6	020B Prep	aration Met	hod: EP	A 3005A			
	Pace Anal	ytical Services	- Peachtree	Corners, G	βA				
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/23 17:01	02/24/23 14:42	2 7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/23/23 17:01	02/24/23 14:42	2 7440-38-2	
Barium	0.016	mg/L	0.0050	0.00067	1	02/23/23 17:01	02/24/23 14:42	2 7440-39-3	
Beryllium	0.0020	mg/L	0.00050	0.000054	1	02/23/23 17:01	02/24/23 14:42	2 7440-41-7	
Boron	4.1	mg/L	0.040	0.0086	1	02/23/23 17:01	02/24/23 14:42	2 7440-42-8	
Cadmium	0.00068	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 14:42	2 7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/23 17:01	02/24/23 14:42	2 7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/23 17:01	02/24/23 14:42	2 7440-48-4	
_ead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01			
Lithium	0.0058J	mg/L	0.030	0.00073	1	02/23/23 17:01			
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/23 17:01	02/24/23 14:42		
Selenium	0.056	mg/L	0.0050	0.0014	1	02/23/23 17:01	02/24/23 14:42		
Γhallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 14:42	2 7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	470A Prep	aration Met	nod: EP	A 7470A			
	Pace Anal	ytical Services	- Peachtree	e Corners, G	SA.				
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 25	40C-2015						
		ytical Services		e Corners, G	SA.				
Total Dissolved Solids	579	mg/L	25.0	25.0	1		02/13/23 16:54	1	
2320B Alkalinity	Analytical	Method: SM 23	20B-2011						
· · · · ·	-	ytical Services							
Alkalinity, Bicarbonate (CaCO3)	8.2	mg/L	5.0	5.0	1		02/16/23 20:39	9	
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		



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

Sample: YAT-YGWC-38	Lab ID:	92651580009	Collecte	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	•	Method: EPA 3 ytical Services		.1 1993						
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		



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

Sample: YAT-AMA-R6-FD-2	Lab ID:	92651580010	Collecte	ed: 02/08/23	00:00	Received: 02/	09/23 12:35 N	fatrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
6010D ATL ICP	Analytical	Method: EPA 6	010D Pre	paration Met	hod: EF	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, G	SA.				
Calcium	56.5	mg/L	1.0	0.12	1	02/21/23 17:00	02/22/23 18:34	1 7440-70-2	
Potassium	3.9	mg/L	0.20	0.15	1	02/21/23 17:00	02/22/23 18:34		
Sodium	18.4	mg/L	1.0	0.58	1	02/21/23 17:00	02/22/23 18:34		
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		Method: EPA 6				PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, G	βA				
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/23 17:01	02/24/23 14:48	3 7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/23/23 17:01	02/24/23 14:48	3 7440-38-2	
Barium	0.015	mg/L	0.0050	0.00067	1	02/23/23 17:01	02/24/23 14:48	3 7440-39-3	
Beryllium	0.0019	mg/L	0.00050	0.000054	1	02/23/23 17:01	02/24/23 14:48	3 7440-41-7	
Boron	4.0	mg/L	0.040	0.0086	1	02/23/23 17:01	02/24/23 14:48	3 7440-42-8	
Cadmium	0.00071	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 14:48	3 7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/23 17:01	02/24/23 14:48	3 7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/23 17:01	02/24/23 14:48	3 7440-48-4	
_ead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 14:48	3 7439-92-1	
Lithium	0.0056J	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 14:48	3 7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/23 17:01	02/24/23 14:48	3 7439-98-7	
Selenium	0.055	mg/L	0.0050	0.0014	1	02/23/23 17:01	02/24/23 14:48	3 7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 14:48	3 7440-28-0	
7470 Mercury	-	Method: EPA 7				A 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, G	βA				
Mercury	ND	mg/L	0.00020	0.00013	1	03/02/23 09:00	03/02/23 14:48	3 7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 25	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, G	βA				
Total Dissolved Solids	485	mg/L	25.0	25.0	1		02/13/23 16:54	1	
2320B Alkalinity	-	Method: SM 23 lytical Services							
								_	
Alkalinity,Bicarbonate (CaCO3)	8.6	mg/L	5.0	5.0	1		02/16/23 20:5		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/16/23 20:5		
Alkalinity, Total as CaCO3	8.6	mg/L	5.0	5.0	1		02/16/23 20:55		
300.0 IC Anions 28 Days	•	Method: EPA 3 lytical Services							
Chloride	3.8	mg/L	1.0	0.60	1		02/11/23 20:13	3 16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/11/23 20:13		
Sulfate	252	mg/L	5.0	2.5	5		02/12/23 05:58		



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

Sample: YAT-YGWC-41	Lab ID:	92651580011	Collecte	d: 02/08/23	16:30	Received: 02/	09/23 12:35 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	-	ytical Services	- Charlotte						
Performed by	Client				1		03/03/23 10:34		
Collected By	Jessica				1		03/03/23 10:34		
Della start Data	Ware						00/00/00 40 04		
Collected Date	02/08/23				1		03/03/23 10:34		
Collected Time oH	16:30 4.69	Std. Units			1 1		03/03/23 10:34 03/03/23 10:34		
							00/00/20 10:04		
6010D ATL ICP	-	Method: EPA 6				PA 3010A			
	Pace Anal	ytical Services	- Peachtre	e Corners, G	βA				
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	
020 MET ICPMS	Analytical	Method: EPA 6	020B Prep	paration Met	hod: EF	PA 3005A			
	•	lytical Services	-						
ntimony	ND	mg/L	0.0030	0.00078	1	02/23/23 17:01	02/24/23 14:54	7440-36-0	
rsenic	0.0027J	mg/L	0.0050	0.0022	1	02/23/23 17:01	02/24/23 14:54		
Barium	0.022	mg/L	0.0050	0.00067	1	02/23/23 17:01	02/24/23 14:54		
Beryllium	0.0013	mg/L	0.00050	0.000054	1	02/23/23 17:01	02/24/23 14:54		
Boron	3.3	mg/L	0.040	0.0086	1	02/23/23 17:01	02/24/23 14:54		
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 14:54		
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/23 17:01	02/24/23 14:54		
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/23 17:01	02/24/23 14:54		
.ead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 14:54		
ithium	0.0021J	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 14:54		
Nolybdenum	0.00210 ND	mg/L	0.010	0.00073	1	02/23/23 17:01	02/24/23 14:54		
Selenium	0.027	mg/L	0.010	0.00074	1	02/23/23 17:01	02/24/23 14:54		
-hallium	0.027 ND	mg/L	0.0030	0.0014	1	02/23/23 17:01	02/24/23 14:54		
Tidiliditi		_					02/24/20 14:04	7440 20 0	
7470 Mercury	-	Method: EPA 7				'A 7470A			
	Pace Anal	ytical Services	- Peachtre	e Corners, G	βA				
Mercury	ND	mg/L	0.00020	0.00013	1	03/02/23 09:00	03/02/23 14:50	7439-97-6	
540C Total Dissolved Solids	Analytical	Method: SM 25	540C-2015						
	Pace Anal	ytical Services	- Peachtre	e Corners, G	βA				
otal Dissolved Solids	257	mg/L	25.0	25.0	1		02/13/23 16:55		
320B Alkalinity	Analytical	Method: SM 23	320B-2011						
<i>-</i>	-	ytical Services							
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 ND	mg/L	5.0	5.0	1		02/17/23 12:02		



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

Sample: YAT-YGWC-41	Lab ID:	Collected	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	•	Method: EPA 3 ytical Services		1 1993					
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	



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

Sample: YAT-YGWC-43	Lab ID:	92651580012	Collecte	d: 02/08/23	18:00	Received: 02/	09/23 12:35 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL .	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical 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		
Н	5.40	Std. Units			1		03/03/23 10:34		
6010D ATL ICP	•	Method: EPA 6 lytical Services				PA 3010A			
No. Le Source				•		00/04/00 47 00	00/00/00 40 54	7440 70 0	
Calcium Potassium	11.0	mg/L	1.0	0.12	1	02/21/23 17:00 02/21/23 17:00	02/22/23 18:54 02/22/23 18:54		
	6.5	mg/L	0.20	0.15	1				
Sodium Magnesium	18.3 25.8	mg/L mg/L	1.0 0.050	0.58 0.012	1 1	02/21/23 17:00 02/21/23 17:00	02/22/23 18:54 02/22/23 18:54		
		•					02/22/20 10.01	7 100 00 1	
020 MET ICPMS		Method: EPA 6				PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, G	BA .				
ntimony	ND	mg/L	0.0030	0.00078	1	02/23/23 17:01	02/24/23 15:00	7440-36-0	
rsenic	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	
ead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 15:00	7439-92-1	
ithium	0.015J	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 15:00	7439-93-2	
/lolybdenum	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	
hallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 15:00	7440-28-0	
470 Mercury	-	Method: EPA 7				PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, G	šΑ				
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	•	Method: SM 25							
	Pace Ana	lytical Services	- Peachtre	e Corners, G	βA				
otal Dissolved Solids	333	mg/L	25.0	25.0	1		02/13/23 16:55		
2320B Alkalinity	Analytical	Method: SM 23	20B-2011						
<del>,</del>	•	lytical Services							
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		



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

Sample: YAT-YGWC-43	Lab ID:	92651580012	Collected	d: 02/08/23	18:00	Received: 02	2/09/23 12:35 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	•	Method: EPA 3 ytical Services		1 1993					
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	



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

Sample: YAT-YAMW-2	Lab ID:	92651580013	Collecte	d: 02/08/23	3 13:55	Received: 02/	09/23 12:35 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	-	lytical Services	- Charlotte						
Performed by	Client				1		03/03/23 10:35		
Collected By	Jessica				1		03/03/23 10:35		
2020.24	Ware				•		00,00,20 .0.00		
Collected Date	02/08/23				1		03/03/23 10:35		
Collected Time	13:55				1		03/03/23 10:35		
Н	5.95	Std. Units			1		03/03/23 10:35		
6010D ATL ICP	Analytical	Method: EPA 6	010D Prep	paration Met	hod: EF	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, G	SA				
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 6	020B Prer	paration Met	hod: EF	PA 3005A			
	-	lytical Services							
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	
.ead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 15:06	7439-92-1	
ithium	ND	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 15:06	7439-93-2	
Nolybdenum	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		
-hallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 15:06	7440-28-0	
470 Mercury	Analytical	Method: EPA 7	470A Prer	paration Met	hod: EP	'A 7470A			
,	-	lytical Services				-			
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 25	40C-2015						
	•	lytical Services		e Corners, G	SA.				
Total Dissolved Solids	190	mg/L	25.0	25.0	1		02/14/23 11:56		
2320B Alkalinity	Analytical	Method: SM 23	20B-2011						
•	•	lytical Services							
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		



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

Sample: YAT-YAMW-2	Lab ID:	92651580013	Collected	d: 02/08/23	13:55	Received: 02	2/09/23 12:35 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	•	Method: EPA 3		1 1993			_		
	Pace Anal	ytical 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	



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

Sample: YAT-YAMW-4	Lab ID:	92651580014	Collecte	ed: 02/08/23	3 14:52	Received: 02/	09/23 12:35 Ma	ıtrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical I	Method:							
	-	ytical Services	- Charlotte						
Performed by	Client				1		03/03/23 10:36		
Collected By	Jessica				1		03/03/23 10:36		
Concoled By	Ware				•		00/00/20 10:00		
Collected Date	02/08/23				1		03/03/23 10:36		
Collected Time	14:52				1		03/03/23 10:36		
pΗ	6.19	Std. Units			1		03/03/23 10:36		
6010D ATL ICP	Analytical I	Method: EPA 6	010D Pre	paration Met	hod: EF	PA 3010A			
	Pace Analy	ytical Services	- Peachtre	e Corners, C	SA.				
Calcium	12.0	mg/L	1.0	0.12	1	02/21/23 17:00			
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 I	Method: EPA 6	020B Prep	paration Met	hod: EP	PA 3005A			
	-	ytical Services							
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	
_ead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 15:12		
₋ithium	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	
Γhallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 15:12	7440-28-0	
7470 Mercury	Analytical I	Method: EPA 7	470A Prep	paration Met	hod: EP	A 7470A			
	Pace Analy	ytical Services	- Peachtre	e Corners, C	SA.				
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 I	Method: SM 25	40C-2015						
	Pace Analy	ytical Services	- Peachtre	e Corners, C	SA				
Total Dissolved Solids	402	mg/L	25.0	25.0	1		02/14/23 11:59		
2320B Alkalinity	Analytical	Method: SM 23	20B-2011						
-		ytical Services							
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		



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

Sample: YAT-YAMW-4	Lab ID:	92651580014	Collected	d: 02/08/23	14:52	Received: 02	2/09/23 12:35 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	•	Method: EPA 3 ytical Services		1 1993					
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	



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

Sample: YAT-YAMW-5	Lab ID:	92651580015	Collecte	d: 02/08/23	10:58	Received: 02/	09/23 12:35 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL .	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	-	lytical Services	- Charlotte						
Performed by	Client				1		03/03/23 10:36		
Collected By	Jessica				1		03/03/23 10:36		
Collected Date	Ware 02/08/23				1		02/02/22 10:26		
Collected Date  Collected Time	10:58				1		03/03/23 10:36 03/03/23 10:36		
oH	5.67	Std. Units			1		03/03/23 10:36		
6010D ATL ICP	Analytical	Method: EPA 6	010D Pro	paration Met	hod: EE	2Δ 3010Δ			
OTOD ATL ICP	•	lytical Services				-A 3010A			
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	0.12	1	02/21/23 17:00	02/22/23 19:08		
Sodium	41.7	mg/L	1.0	0.13	1	02/21/23 17:00	02/22/23 19:08		
Magnesium	49.0	mg/L	0.050	0.012	1	02/21/23 17:00			
6020 MET ICPMS	Analytical	Method: EPA 6	020B Pror	aration Met	hod: EE	2Δ 3005Δ			
020 MET ICPMS	-	lytical Services				A 3003A			
		•		•					
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/23 17:01	02/24/23 15:18		
Arsenic	0.0038J	mg/L	0.0050	0.0022	1	02/23/23 17:01	02/24/23 15:18		
Barium 	0.039	mg/L	0.0050	0.00067	1	02/23/23 17:01	02/24/23 15:18		
Beryllium	0.00013J	mg/L	0.00050	0.000054	1	02/23/23 17:01	02/24/23 15:18		
Boron	6.5	mg/L	0.040	0.0086	1	02/23/23 17:01	02/24/23 15:18		
Cadmium	0.00046J	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 15:18		
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	
.ead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 15:18	7439-92-1	
ithium	0.014J	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 15:18	7439-93-2	
Nolybdenum	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		
hallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 15:18	7440-28-0	
470 Mercury	Analytical	Method: EPA 7	470A Prep	aration Met	nod: EF	PA 7470A			
•	Pace Ana	lytical Services	- Peachtre	e Corners, G	iΑ				
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 25	40C-2015						
		lytical Services		e Corners, G	iΑ				
Total Dissolved Solids	660	mg/L	25.0	25.0	1		02/14/23 11:59		
2320B Alkalinity	Analytical	Method: SM 23	20B-2011						
•	•	lytical Services							
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		



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

Sample: YAT-YAMW-5	Lab ID:	92651580015	Collected	d: 02/08/23	10:58	Received: 02	2/09/23 12:35 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	•	Method: EPA 3 ytical Services		1 1993					
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	



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

Sample: YAT-YAMW-1	Lab ID:	92651580016	Collecte	ed: 02/09/23	3 15:56	Received: 02/	10/23 14:00 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical I	Method:							
	-	tical Services	- Charlotte						
Performed by	Client				1		03/03/23 10:37		
Collected By	Jessica				1		03/03/23 10:37		
	Ware				•		00/00/20 10:07		
Collected Date	02/09/23				1		03/03/23 10:37		
Collected Time	15:56				1		03/03/23 10:37		
H	5.73	Std. Units			1		03/03/23 10:37		
6010D ATL ICP	Analytical I	Method: EPA 6	010D Pre	paration Met	hod: EF	PA 3010A			
	Pace Analy	tical Services	- Peachtre	e Corners, G	SA.				
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 I	Method: EPA 6	020B Pre	paration Met	hod: EP	PA 3005A			
	-	tical Services							
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	
₋ead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 15:40	7439-92-1	
_ithium	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	
Γhallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 15:40	7440-28-0	
7470 Mercury	Analytical I	Method: EPA 7	470A Prep	paration Met	hod: EP	A 7470A			
	Pace Analy	tical Services	- Peachtre	e Corners, G	SA .				
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 I	Method: SM 25	40C-2015						
	-	tical Services		e Corners, G	BA				
Total Dissolved Solids	347	mg/L	25.0	25.0	1		02/15/23 18:41		
2320B Alkalinity	Analytical I	Method: SM 23	20B-2011						
	Pace Analy	tical 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		



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

Sample: YAT-YAMW-1	Lab ID:	92651580016	Collected	d: 02/09/23	15:56	Received: 02	2/10/23 14:00 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	•	Method: EPA 3 ytical Services		1 1993					
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	



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

Sample: YAT-AMA-R6-FD-1	Lab ID: 9	2651580017	Collecte	ed: 02/09/23	00:00	Received: 02/	10/23 14:00 M	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
6010D ATL ICP	Analytical M	flethod: EPA 6	010D Pre	paration Met	hod: EF	'A 3010A			
	Pace Analy	tical Services	- Peachtre	e Corners, G	iΑ				
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		
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		Method: EPA 6 tical Services				A 3005A			
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		
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/23 17:01	02/24/23 15:46		
Selenium	0.0050	mg/L	0.0050	0.0014	1	02/23/23 17:01	02/24/23 15:46		
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 15:46	7440-28-0	
7470 Mercury	-	lethod: EPA 7 tical Services				A 7470A			
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 M	lethod: SM 25	540C-2015						
	Pace Analy	tical Services	- Peachtre	e Corners, G	iΑ				
Total Dissolved Solids	344	mg/L	25.0	25.0	1		02/16/23 19:18		
2320B Alkalinity	Analytical M	Method: SM 23	320B-2011						
•	Pace Analy	tical 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 M	lethod: EPA 3	00.0 Rev 2	2.1 1993					
-	Pace Analy	tical 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		
Sulfate	208	mg/L	4.0	2.0	4		02/15/23 09:45	14808-79-8	



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

Sample: YAT-YGWC-36A	Lab ID:	92651580018	Collecte	ed: 02/09/23	3 13:10	Received: 02/	10/23 14:00 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
		lytical Services	- Charlotte						
Performed by	Client				1		03/03/23 10:38		
Collected By	Jessica				1		03/03/23 10:38		
Della stad Data	Ware						00/00/00 40 00		
Collected Date	02/09/23				1		03/03/23 10:38		
Collected Time oH	13:10 5.67	Std. Units			1 1		03/03/23 10:38 03/03/23 10:38		
					•		00/00/20 10:00		
6010D ATL ICP	•	Method: EPA 6				PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	BA .				
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 6	020B Prer	paration Met	hod: EF	PA 3005A			
	•	lytical Services							
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		
Barium	0.097	mg/L	0.0050	0.00067	1	02/23/23 17:01	02/24/23 15:52		
Beryllium	0.00066	mg/L	0.00050	0.000054	1	02/23/23 17:01	02/24/23 15:52		
Boron	0.028J	mg/L	0.040	0.0086	1	02/23/23 17:01	02/24/23 15:52		
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/23 17:01	02/24/23 15:52		
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/23 17:01	02/24/23 15:52		
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/23 17:01	02/24/23 15:52		
_ead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01	02/24/23 15:52		
ithium	0.0010J	mg/L	0.030	0.00073	1	02/23/23 17:01	02/24/23 15:52		
Nolybdenum	ND	mg/L	0.010	0.00074	1	02/23/23 17:01	02/24/23 15:52		
Selenium	0.0027J	mg/L	0.0050	0.0014	1	02/23/23 17:01	02/24/23 15:52		
Fhallium	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 7	470A Prer	naration Met	hod: FF	ΡΑ 7470Α			
470 Mercury	-	lytical Services				7.7.47.07.			
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 25	40C-2015						
	-	lytical Services		e Corners, G	SA.				
Total Dissolved Solids	116	mg/L	25.0	25.0	1		02/16/23 19:19		
2320B Alkalinity	Analytical	Method: SM 23	20B-2011						
	Pace Ana	lytical 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		



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

Sample: YAT-YGWC-36A	Lab ID:	92651580018	Collected	d: 02/09/23	13:10	Received: 02	/10/23 14:00 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	•	Method: EPA 3 ytical Services		1 1993					
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	



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

Sample: YAT-AMA-R6-FB-1	Lab ID: 9	2651580020	Collecte	ed: 02/09/23	16:55	Received: 02/	10/23 14:00 M	latrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL -	DF	Prepared	Analyzed	CAS No.	Qua
6010D ATL ICP	Analytical M	lethod: EPA 6	010D Pre	paration Metl	hod: EF	A 3010A			
	Pace Analy	tical Services	- Peachtre	e Corners, G	iΑ				
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 M	lethod: EPA 6	020B Pre	paration Meth	nod: EF	A 3005A			
	Pace Analy	tical Services	- Peachtre	e Corners, G	iΑ				
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		
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 15:58		
7470 Mercury	Analytical M	lethod: EPA 7	470A Pre	paration Meth	nod: EP	A 7470A			
·	-	tical Services							
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 M	1ethod: SM 25	40C-2015						
	Pace Analy	tical Services	- Peachtre	e Corners, G	iΑ				
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/15/23 18:41		
2320B Alkalinity	Analytical M	1ethod: SM 23	320B-2011						
	Pace Analy	tical 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 M	lethod: EPA 3	00.0 Rev 2	2.1 1993					
	Pace Analy	tical 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		
Sulfate	ND	mg/L	1.0	0.50	1		02/15/23 00:06		



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

Sample: YAT-YGWC-24SB	Lab ID:	92651580021	Collecte	ed: 02/10/23	3 09:45	Received: 02/	10/23 14:00 N	latrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	Client				1		03/03/23 10:39	9	
Collected By	Jessica				1		03/03/23 10:39		
•	Ware				•				
Collected Date	02/10/23				1		03/03/23 10:39		
Collected Time	09:45				1		03/03/23 10:39		
ρΗ	5.67	Std. Units			1		03/03/23 10:39	9	
6010D ATL ICP	Analytical	Method: EPA 6	010D Prep	paration Met	hod: EF	A 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	€A				
Potassium	1.0	mg/L	0.20	0.15	1	02/23/23 10:34	02/23/23 17:5	7440-09-7	ВС
Sodium	9.3	mg/L	1.0	0.58	1	02/23/23 10:34	02/23/23 17:5	7440-23-5	
Calcium	2.4	mg/L	1.0	0.12	1	02/23/23 10:34	02/23/23 17:5	7440-70-2	
Magnesium	1.8	mg/L	0.050	0.012	1	02/23/23 10:34	02/23/23 17:5	7439-95-4	
6020 MET ICPMS	Analytical	Method: EPA 6	020B Prep	paration Met	hod: EP	A 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	SA.				
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/23 17:01	02/24/23 16:04	1 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	
_ead	ND	mg/L	0.0010	0.00089	1	02/23/23 17:01			
_ithium	ND	mg/L	0.030	0.00073	1	02/23/23 17:01			
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/23 17:01	02/24/23 16:04		
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/23 17:01	02/24/23 16:04		
Γhallium	ND	mg/L	0.0010	0.00018	1	02/23/23 17:01	02/24/23 16:04	1 7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	470A Prep	paration Met	hod: EP	A 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	<b>S</b> A				
Mercury	ND	mg/L	0.00020	0.00013	1	03/02/23 09:00	03/02/23 13:22	2 7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 25	540C-2015						
		lytical Services		e Corners, C	<b>S</b> A				
Total Dissolved Solids	66.0	mg/L	25.0	25.0	1		02/16/23 16:30	)	
2320B Alkalinity	Analytical	Method: SM 23	320B-2011						
- · · · ·	-	lytical Services							
Alkalinity,Bicarbonate (CaCO3)	12.6	mg/L	5.0	5.0	1		02/17/23 19:58	3	
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	•		02/17/23 19:58		



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

Sample: YAT-YGWC-24SB	Lab ID:	92651580021	Collecte	d: 02/10/23	09:45	Received: 02	2/10/23 14:00 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	•	Method: EPA 3 ytical Services		1 1993					
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	



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

Sample: YAT-PZ-51	Lab ID:	92651580022	Collecte	ed: 02/09/23	16:01	Received: 02/	10/23 14:00 Ma	atrix: Water	
			Report						
Parameters	Results	Units -	Limit	MDL .	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	-	lytical Services	- Charlotte						
Performed by	Client				1		03/03/23 10:40		
Collected By	Jessica				1		03/03/23 10:40		
·	Ware								
Collected Date	02/09/23				1		03/03/23 10:40		
Collected Time oH	16:01 5.14	Std. Units			1 1		03/03/23 10:40 03/03/23 10:40		
) I	5.14	Sta. Offits			'		03/03/23 10.40		
0010D ATL ICP	•	Method: EPA 6				PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, G	βA				
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		
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 6	020B Prei	paration Met	hod: EF	PA 3005A			
	-	lytical Services							
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 00:12	02/24/23 20:03	7440 26 0	
Arsenic	ND ND	mg/L	0.0050	0.00078	1		02/24/23 20:03		
Barium	0.015	mg/L	0.0050	0.00022	1		02/24/23 20:03		
Beryllium	0.0024	mg/L	0.0050	0.00007	1		02/25/23 14:47		
Boron	6.9	mg/L	0.040	0.0086	1		02/25/23 14:47		
Cadmium	0.0018	mg/L	0.00050	0.00011	1		02/24/23 20:03		
Chromium	ND	mg/L	0.0050	0.0011	1		02/24/23 20:03		
Cobalt	0.0071	mg/L	0.0050	0.00039	1		02/24/23 20:03		
_ead	ND	mg/L	0.0010	0.00089	1		02/24/23 20:03		
Lithium	0.0045J	mg/L	0.030	0.00073	1		02/24/23 20:03		
Molybdenum	ND	mg/L	0.010	0.00074	1		02/24/23 20:03		
Selenium	0.028	mg/L	0.0050	0.0014	1		02/24/23 20:03		
Fhallium	ND	mg/L	0.0010	0.00014	1		02/24/23 20:03		
7.470 Managama	A b - t l	_	4704 D	Mad		NA 7470A			
7470 Mercury	-	Method: EPA 7 lytical Services				A 7470A			
		•							
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	•	Method: SM 25							
	Pace Ana	lytical Services	- Peachtre	e Corners, G	βA				
Total Dissolved Solids	582	mg/L	25.0	25.0	1		02/15/23 18:42		
2320B Alkalinity	Analytical	Method: SM 23	20B-2011						
<b>,</b>	•	lytical Services							
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		



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

Sample: YAT-PZ-51	Lab ID:	92651580022	Collecte	d: 02/09/23	16:01	Received: 02	2/10/23 14:00 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	•	Method: EPA 3 ytical Services		1 1993					
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	



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

Sample: YAT-AMA-R6-EB-2	Lab ID:	92651580023	Collecte	ed: 02/09/23	17:25	Received: 02/	/10/23 14:00 M	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL .	DF	Prepared	Analyzed	CAS No.	Qua
6010D ATL ICP	Analytical	Method: EPA 6	010D Pre	paration Met	hod: EF	PA 3010A			
	-	ytical Services							
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 6	020B Pre	paration Met	hod: EF	A 3005A			
	Pace Anal	ytical Services	- Peachtre	e Corners, G	SA .				
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 7	470A Prej	paration Met	nod: EP	A 7470A			
•	-	ytical Services							
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 25	40C-2015						
	Pace Anal	ytical Services	- Peachtre	e Corners, G	SA .				
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/15/23 18:42		
2320B Alkalinity	Analytical	Method: SM 23	320B-2011						
•	Pace Anal	ytical 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 3	00.0 Rev 2	2.1 1993					
	Pace Anal	ytical 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		
Sulfate	ND	mg/L	1.0	0.50	1		02/15/23 02:05		



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

Sample: YAT-YGWC-49	Lab ID:	92651580024	Collecte	d: 02/09/23	3 15:00	Received: 02/	10/23 14:00 M	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Anal	ytical Services	- Charlotte						
Performed by	Client				1		03/03/23 10:40		
Collected By	Jessica				1		03/03/23 10:40		
2,	Ware				•		00,00,20 .00		
Collected Date	02/09/23				1		03/03/23 10:40		
Collected Time	15:00				1		03/03/23 10:40		
рН	5.61	Std. Units			1		03/03/23 10:40		
6010D ATL ICP	Analytical	Method: EPA 6	010D Prep	aration Met	hod: EF	A 3010A			
	Pace Anal	ytical Services	- Peachtree	Corners, C	<b>S</b> A				
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 6	020B Prep	aration Met	hod: EP	A 3005A			
	•	ytical Services							
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		
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	
_ead	ND	mg/L	0.0010	0.00089	1	02/27/23 12:04	02/27/23 20:32	7439-92-1	
_ithium	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 7	470A Prep	aration Met	hod: EP	A 7470A			
	Pace Anal	ytical Services	- Peachtree	Corners, C	€A				
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 25	540C-2015						
		ytical Services		e Corners, C	SA.				
Total Dissolved Solids	145	mg/L	25.0	25.0	1		02/15/23 18:43		
2320B Alkalinity	Analytical	Method: SM 23	320B-2011						
· · · · ·	-	ytical Services							
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		



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

Sample: YAT-YGWC-49	Lab ID:	92651580024	Collecte	d: 02/09/23	3 15:00	Received: 02	2/10/23 14:00 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	•	Method: EPA 3 ytical Services		1 1993					
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	



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

Sample: YAT-YAMW-3	Lab ID:	92651580025	Collecte	d: 02/09/2	3 11:17	Received: 02/	10/23 14:00 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical 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		
оН	5.89	Std. Units			1		03/19/23 15:53		
6010D ATL ICP	Analytical	Method: EPA 6	010D Prep	paration Me	thod: EF	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, 0	βA				
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 6	020B Prep	aration Met	hod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, 0	3A				
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	
_ead	ND	mg/L	0.0010	0.00089	1	02/27/23 12:04	02/27/23 20:38	7439-92-1	
_ithium	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	
Γhallium	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 7	470A Prep	aration Met	hod: EP	A 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, (	3A				
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 25	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, (	3A				
Total Dissolved Solids	727	mg/L	25.0	25.0	1		02/15/23 18:43		
2320B Alkalinity	Analytical	Method: SM 23	320B-2011						
	Pace Ana	lytical 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		



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

Sample: YAT-YAMW-3	Lab ID:	92651580025	Collected	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	•	Method: EPA 3 ytical Services		1 1993							
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			



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

Sample: YAT-PZ-35	Lab ID:	92651576012	Collecte	ed: 02/09/2	3 14:48	Received: 02/	10/23 14:00 M	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
i didilieleis			·			————	- Allalyzeu		
ield Data	Analytical	Method:							
	Pace Ana	lytical Services	<ul> <li>Charlotte</li> </ul>						
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		
ρΗ	5.50	Std. Units			1		03/19/23 16:05		
6010D ATL ICP	Analytical	Method: EPA 6	010D Pre	paration Me	thod: EP	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, 0	3A				
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 6	020B Prep	paration Met	hod: EP	A 3005A			
	-	lytical Services							
antimony	ND	mg/L	0.0030	0.00078	1	02/22/23 17:00	02/23/23 18:04	7440-36-0	
rsenic	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	
_ead	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			
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		
Γhallium	ND	mg/L	0.0010	0.00018	1	02/22/23 17:00	02/23/23 18:04	7440-28-0	
470 Mercury	Analytical	Method: EPA 7	470A Prep	paration Met	hod: EP	A 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, (	3A				
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 25	40C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, (	3A				
Total Dissolved Solids	196	mg/L	25.0	25.0	1		02/15/23 12:03		
2320B Alkalinity	Analytical	Method: SM 23	320B-2011						
	Pace Ana	lytical 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		



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

Sample: YAT-PZ-35	Lab ID:	92651576012	Collecte	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	•	Method: EPA 3		.1 1993							
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			



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

QC Batch: 757276 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92651580001, 92651580002, 92651580003, 92651580004, 92651580005, 92651580006, 92651580007,

 $92651580008, \, 92651580009, \, 92651580010, \, 92651580011, \, 92651580012, \, 92651580013, \, 92651580014, \, 9265$ 

92651580015

METHOD BLANK: 3934070 Matrix: Water

Associated Lab Samples: 92651580001, 92651580002, 92651580003, 92651580004, 92651580005, 92651580006, 92651580007,

92651580008, 92651580009, 92651580010, 92651580011, 92651580012, 92651580013, 92651580014,

92651580015

		Blank	Reporting			
Parameter	Units	Result	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

Date: 04/18/2023 01:30 PM

000-071					
	Spike	LCS	LCS	% Rec	
Units	Conc.	Result	% Rec	Limits	Qualifiers
mg/L		1.0	103	80-120	
mg/L	1	1.0	101	80-120	
mg/L	1	0.99	99	80-120	
mg/L	1	0.98J	98	80-120	
	Units mg/L mg/L mg/L	Spike   Conc.     1     mg/L   1   mg/L   1     1	Units         Spike Conc.         LCS Result           mg/L         1         1.0           mg/L         1         1.0           mg/L         1         0.99	Units         Spike Conc.         LCS Result         LCS % Rec           mg/L mg/L         1         1.0         103 mg/L           mg/L         1         1.0         101 mg/L	Units         Spike Conc.         LCS Result         LCS % Rec Limits           mg/L         1         1.0         103         80-120           mg/L         1         1.0         101         80-120           mg/L         1         0.99         99         80-120

MATRIX SPIKE & MATRIX S	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3934072											
			MS	MSD								
	9	2651415003	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	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

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



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

QC Batch: 757456 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92651576012

METHOD BLANK: 3934803 Matrix: Water

Associated Lab Samples: 92651576012

		Blank	Reporting			
Parameter	Units	Result	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					
_		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% 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 S	SPIKE DUPLIC		3934806									
			MS	MSD								
	9	2651576001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	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

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



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

QC Batch: 757680 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92651580016, 92651580017, 92651580018, 92651580020, 92651580021, 92651580022, 92651580023,

92651580024, 92651580025

METHOD BLANK: 3935828 Matrix: Water

Associated Lab Samples: 92651580016, 92651580017, 92651580018, 92651580020, 92651580021, 92651580022, 92651580023,

92651580024, 92651580025

		Blank	Reporting			
Parameter	Units	Result	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	Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Calcium	mg/L		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 SP	PIKE DUPLIC	CATE: 3935	830		3935831							
			MS	MSD								
	9	2649235041	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	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	

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



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

QC Batch: 757520 Analysis Method:
QC Batch Method: EPA 3005A Analysis Description:

Laboratory: Pace Analytical Services - Peachtree Corners, GA

EPA 6020B

6020 MET

Associated Lab Samples: 92651576012

METHOD BLANK: 3935190 Matrix: Water

Associated Lab Samples: 92651576012

·		Blank	Reporting			
Parameter	Units	Result	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	

		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% 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	
ead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.11	106	80-120	
Nolybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	
<sup>-</sup> hallium	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SP	IKE DUPLI	CATE: 3935	192		3935193							
			MS	MSD								
	9	92651576005	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	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	

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



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

MATRIX SPIKE & MATRIX	SPIKE DUPLIC	CATE: 3935	-		3935193							
Parameter	9 Units	2651576005 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	

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



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

QC Batch: 757801 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92651580001, 92651580002, 92651580003, 92651580004, 92651580005, 92651580006, 92651580007,

92651580008, 92651580009, 92651580010, 92651580011, 92651580012, 92651580013, 92651580014,

92651580015, 92651580016, 92651580017, 92651580018, 92651580020, 92651580021

METHOD BLANK: 3936697 Matrix: Water

Associated Lab Samples: 92651580001, 92651580002, 92651580003, 92651580004, 92651580005, 92651580006, 92651580007,

92651580008, 92651580009, 92651580010, 92651580011, 92651580012, 92651580013, 92651580014,

92651580015, 92651580016, 92651580017, 92651580018, 92651580020, 92651580021

		Blank	Reporting			
Parameter	Units	Result	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					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% 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	

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



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

MATRIX SPIKE & MATRIX	SPIKE DUPLI	CATE: 3936	699 MS	MSD	3936700	)	_					
	Ç	92651580004	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	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	

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



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

QC Batch: 757842 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92651580022, 92651580023

METHOD BLANK: 3936983 Matrix: Water

Associated Lab Samples: 92651580022, 92651580023

7.0000.a.ou 2ab 0ap.oo. 02001	000022, 02001000020					
		Blank	Reporting			
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND 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	

		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% 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 DUPL	ICATE: 3936	985		3936986							
		92651768018	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Faiailletei	UIIIS		COIIC.	COIIC.	Nesuit	Nesuit	/0 KeC	/0 KeC	LIIIIII	NFD	KFD.	Quai
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	

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



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

MATRIX SPIKE & MATRIX	SPIKE DUPLIC	CATE: 3936			3936986							
Parameter	g Units	2651768018 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	



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

QC Batch: 758264 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92651580024, 92651580025

METHOD BLANK: 3938725 Matrix: Water

Associated Lab Samples: 92651580024, 92651580025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND 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	
_ead	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	
Nolybdenum	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	
<sup>-</sup> hallium	mg/L	ND	0.0010	0.00018	02/27/23 17:51	

LABORATORY CONTROL SAMPLE:	3938726					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% 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 SF	IKE DUPLI	ICATE: 3938	727		3938728							
			MS	MSD								
		92649235016	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	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	

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



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

MATRIX SPIKE & MATRIX	SPIKE DUPLIC	CATE: 3938			3938728							
Parameter	9 Units	2649235016 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	



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

QC Batch: 758312 Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92651576012

METHOD BLANK: 3939045 Matrix: Water

Associated Lab Samples: 92651576012

 Parameter
 Units
 Blank Reporting Result
 Limit
 MDL
 Analyzed
 Qualifiers

 Mercury
 mg/L
 ND
 0.00020
 0.00013
 02/28/23 10:25

LABORATORY CONTROL SAMPLE: 3939046

Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units Mercury mg/L 0.0025 0.0026 102 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3939047 3939048

MSD MS 92651576003 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Conc. Conc. Result Result % Rec % Rec **RPD** RPD Qual Result Limits ND 0.0025 Mercury mg/L 0.0025 0.0023 0.0023 89 89 75-125 0 20

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



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Mercury

Date: 04/18/2023 01:30 PM

QC Batch: 758956 Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92651580001, 92651580002, 92651580003, 92651580004, 92651580005, 92651580006, 92651580007,

92651580008, 92651580009, 92651580010, 92651580011, 92651580012, 92651580013, 92651580014,

92651580015, 92651580016, 92651580017, 92651580018, 92651580020

METHOD BLANK: 3942309 Matrix: Water

mg/L

Associated Lab Samples: 92651580001, 92651580002, 92651580003, 92651580004, 92651580005, 92651580006, 92651580007,

92651580008, 92651580009, 92651580010, 92651580011, 92651580012, 92651580013, 92651580014,

92651580015, 92651580016, 92651580017, 92651580018, 92651580020

Blank Reporting Result Limit Qualifiers Parameter Units MDL Analyzed Mercury mg/L ND 0.00020 0.00013 03/02/23 14:05 LABORATORY CONTROL SAMPLE: 3942310 Spike LCS LCS % Rec

ParameterUnitsConc.Result% RecLimitsQualifiersMercurymg/L0.00250.00249680-120

0.0025

ND

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3942311 3942312 MS MSD 92651580003 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits **RPD** RPD Qual

0.0021

0.0023

83

75-125

20

12

0.0025

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



Plant Yates AMA-R6 Project:

Pace Project No.: 92651580

Mercury

Date: 04/18/2023 01:30 PM

QC Batch: 758957 Analysis Method: EPA 7470A QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury

> Laboratory: Pace Analytical Services - Peachtree Corners, GA

92651580021, 92651580022, 92651580023, 92651580024, 92651580025 Associated Lab Samples:

METHOD BLANK: Matrix: Water

Associated Lab Samples: 92651580021, 92651580022, 92651580023, 92651580024, 92651580025

> Reporting Qualifiers Parameter Units Result Limit MDL Analyzed ND 0.00020 0.00013 03/02/23 12:20 mg/L

LABORATORY CONTROL SAMPLE: 3942314

Spike LCS LCS % Rec Result Conc. % Rec Limits Qualifiers Parameter Units Mercury 0.0025 0.0025 100 80-120 mg/L

Blank

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3942315 3942316

MSD MS

92649235041 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Conc. Result Result **RPD** RPD Qual Result Conc. % Rec % Rec Limits 0.0025 20 H1 Mercury mg/L ND 0.0025 0.0024 0.0024 94 94 75-125



Project: Plant Yates AMA-R6

LABORATORY CONTROL SAMPLE:

Date: 04/18/2023 01:30 PM

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

3925081

Associated Lab Samples: 92651580001, 92651580002, 92651580003, 92651580004, 92651580005, 92651580006, 92651580007,

92651580008, 92651580009, 92651580010, 92651580011, 92651580012

Blank Reporting

ParameterUnitsBlank ResultReporting LimitMDLAnalyzedQualifiersTotal Dissolved Solidsmg/LND25.025.002/13/23 16:22

LCS LCS % Rec Spike Parameter Units % Rec Limits Qualifiers Conc. Result Total Dissolved Solids mg/L 400 397 99 80-120

SAMPLE DUPLICATE: 3925082 92651537006 Dup Max **RPD RPD** Parameter Units Result Result Qualifiers 116 85.0 31 10 D6 **Total Dissolved Solids** mg/L

SAMPLE DUPLICATE: 3925083 92651580003 Dup Max RPD RPD Parameter Units Result Result Qualifiers **Total Dissolved Solids** mg/L 822 839 2 10



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

Blank Reporting
Parameter Units Result Limit MDL Analyzed Qualifiers

Total Dissolved Solids mg/L ND 25.0 25.0 02/14/23 11:56

LABORATORY CONTROL SAMPLE: 3926330

Spike LCS LCS % Rec Conc. % Rec Limits Qualifiers Parameter Units Result **Total Dissolved Solids** mg/L 400 396 99 80-120

SAMPLE DUPLICATE: 3926331

92651580013 Dup Max Parameter Units Result Result **RPD RPD** Qualifiers 190 **Total Dissolved Solids** 7 mg/L 203 10

SAMPLE DUPLICATE: 3926332

Date: 04/18/2023 01:30 PM

92651382012 Dup Max RPD RPD Parameter Units Result Result Qualifiers Total Dissolved Solids 141 2 mg/L 138 10



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

QC Batch: 755982 Analysis Method: SM 2540C-2015

QC Batch Method: SM 2540C-2015 Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92651576012

METHOD BLANK: 3927602 Matrix: Water

Associated Lab Samples: 92651576012

Blank Reporting
Parameter Units Result Limit MDL Analyzed Qualifiers

Total Dissolved Solids mg/L ND 25.0 25.0 02/15/23 11:50

LABORATORY CONTROL SAMPLE: 3927603

Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units **Total Dissolved Solids** mg/L 377 94 80-120

SAMPLE DUPLICATE: 3927604

92651771004 Dup Max Parameter Units Result Result **RPD RPD** Qualifiers 31.0 **Total Dissolved Solids** mg/L 7 29.0 10

SAMPLE DUPLICATE: 3927605

Date: 04/18/2023 01:30 PM

92650184006 Dup Max RPD RPD Parameter Units Result Result Qualifiers Total Dissolved Solids 619 623 10 mg/L 1

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



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

Blank Reporting
Parameter Units Result Limit MDL Analyzed Qualifiers

Total Dissolved Solids mg/L ND 25.0 25.0 02/15/23 18:35

LABORATORY CONTROL SAMPLE: 3927732

Spike LCS LCS % Rec Conc. % Rec Limits Qualifiers Parameter Units Result **Total Dissolved Solids** 384 96 80-120 mg/L

SAMPLE DUPLICATE: 3927733

92651576013 Dup Max Parameter Units Result Result **RPD RPD** Qualifiers 246 **Total Dissolved Solids** mg/L 153 47 10

SAMPLE DUPLICATE: 3927734

Date: 04/18/2023 01:30 PM

92651580022 Dup Max RPD RPD Parameter Units Result Result Qualifiers Total Dissolved Solids 582 mg/L 676 15 10



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

Blank Reporting
Parameter Units Result Limit MDL Analyzed Qualifiers

Total Dissolved Solids mg/L ND 25.0 25.0 02/16/23 15:00

LABORATORY CONTROL SAMPLE: 3929096

Spike LCS LCS % Rec
Parameter Units Conc. Result % Rec Limits Qualifiers

Total Dissolved Solids mg/L 400 377 94 80-120

SAMPLE DUPLICATE: 3929098

92651771019 Dup Max Parameter Units Result Result **RPD RPD** Qualifiers 123 **Total Dissolved Solids** 3 mg/L 119 10

SAMPLE DUPLICATE: 3929113

Date: 04/18/2023 01:30 PM

92651771011 Dup Max RPD RPD Parameter Units Result Result Qualifiers Total Dissolved Solids 169 mg/L 185 9 10



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

QC Batch: 756067 Analysis Method: SM 2320B-2011 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity

> Laboratory: Pace Analytical Services - Asheville

92651580001, 92651580002, 92651580003, 92651580004, 92651580005, 92651580006, 92651580007, Associated Lab Samples:

 $92651580008,\,92651580009,\,92651580010$ 

METHOD BLANK: 3928180 Matrix: Water

92651580001, 92651580002, 92651580003, 92651580004, 92651580005, 92651580006, 92651580007, Associated Lab Samples:

!	926515800	008, 9265158000	9, 9265158	80010	,		,			,		
Parameter		Units	Blar Res		Reporting Limit	MDI		Analyze	d O	ualifiers		
										uaiiiieis	<b>)</b>	
Alkalinity, Total as CaCO3 Alkalinity, Bicarbonate (CaCO)	3)	mg/L mg/L		ND ND	5. 5.	_	5.0 5.0	02/16/23 17 02/16/23 17	-			
Alkalinity, Carbonate (CaCO3)	•	mg/L		ND	5.		5.0	02/16/23 17				
LABORATORY CONTROL SA	AMPLE:	3928181										
			Spike		CS	LCS		6 Rec				
Parameter		Units	Conc.	Re	sult	% Rec		_imits 	Qualifiers	_		
Alkalinity, Total as CaCO3		mg/L	5	50	50.0	100	)	80-120				
LABORATORY CONTROL SA	AMPLE:	3928182										
Parameter		Units	Spike Conc.		CS sult	LCS % Rec		% Rec ₋imits	Qualifiers			
									Qualifiers	_		
Alkalinity, Total as CaCO3		mg/L	5	60	51.2	102	2	80-120				
MATRIX SPIKE & MATRIX SI	PIKE DUPI	LICATE: 3928	183		3928184	ļ						
		0005450000	MS	MSD		1400			o/ <b>D</b>			
Parameter	Units	92651580009 Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Re	MSD c % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	8.2	50	50		60.4		02 10				
MATRIX SPIKE & MATRIX SI	DIKE DI IPI	LICATE: 3928	185		3928186	<u> </u>						
			MS	MSD	0020100							
		92651580010	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Re	c % Rec	Limits	RPD	RPD	Qual
Alkalinity, Total as CaCO3	mg/L	8.6	50	50	61.0	61.3	1	05 10	5 80-120	1	25	

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



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

QC Batch: 756119 Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92651580011, 92651580012, 92651580013, 92651580014, 92651580015

METHOD BLANK: 3928501 Matrix: Water

Parameter	Units	Blanl Resu		Reporting Limit	MD	L	Analyz	ed Q	ualifiers	_	
Alkalinity, Total as CaCO3	mg/L		ND	5.		5.0	02/17/23				
Alkalinity, Bicarbonate (CaCO3) Alkalinity, Carbonate (CaCO3)	mg/L mg/L		ND ND	5. 5.		5.0 5.0	02/17/23 <sup>2</sup> 02/17/23 <sup>2</sup>				
LABORATORY CONTROL SAMPLE:	3928502										
Parameter	Units	Spike Conc.	LC Res		LCS % Rec		6 Rec ₋imits	Qualifiers			
Alkalinity, Total as CaCO3	mg/L			50.5	10		80-120	Qualificity	_		
LABORATORY CONTROL SAMPLE:	3928503										
Doromotor	Llaita	Spike	LC		LCS % Rec		6 Rec	Ouglifiere			
Parameter O-000	Units	Conc.	Res				imits -	Qualifiers	_		
Alkalinity, Total as CaCO3	mg/L	50	,	51.4	10:	3	80-120				
MATRIX SPIKE & MATRIX SPIKE DUI	PLICATE: 3928	504 MS	MSD	3928505	5						
	92651771001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter Units	s Result	Conc.	Conc.	Result	Result	% Re	c % Red	Limits	RPD	RPD	Qua
Alkalinity, Total as CaCO3 mg/l	219	50	50	262	271		86 1	04 80-120	3	25	
		506		3928507	,						
MATRIX SPIKE & MATRIX SPIKE DUI	PLICATE: 3928										
MATRIX SPIKE & MATRIX SPIKE DUI		MS	MSD	MC	MCD	MC	MOD	0/ Dc -		Max	
MATRIX SPIKE & MATRIX SPIKE DUI  Parameter Units	92651771002		MSD Spike Conc.	MS Result	MSD Result	MS % Re	MSD c % Red	% Rec	RPD	Max RPD	Qua

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



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Alkalinity, Total as CaCO3

Date: 04/18/2023 01:30 PM

QC Batch: 756264 QC Batch Method: SM 2320B-2011

Analysis Description: 2320B Alkalinity

Laboratory:

Analysis Method:

Pace Analytical Services - Asheville

SM 2320B-2011

Associated Lab Samples: 92651576012

METHOD BLANK: 3929037 Matrix: Water

Associated Lab Samples: 92	2651576	012										
5		11.5	Blar		Reporting	MD				1.6.		
Parameter		Units	Res	ult 	Limit	MDI		Analyzed	Ι Qι 	ualifiers		
Alkalinity, Total as CaCO3		mg/L		ND	5.		5.0	02/17/23 15				
Alkalinity, Bicarbonate (CaCO3)	1	mg/L		ND	5.		5.0	02/17/23 15				
Alkalinity, Carbonate (CaCO3)		mg/L		ND	5.	0	5.0	02/17/23 15	:34			
LABORATORY CONTROL SAI	MPLE:	3929038										
			Spike	LC	S	LCS	%	Rec				
Parameter		Units	Conc.	Res	sult	% Rec	L	imits	Qualifiers			
Alkalinity, Total as CaCO3		mg/L		60	50.9	102	2	80-120		_		
LABORATORY CONTROL SAI	MPLE:	3929039										
			Spike	LC	S	LCS	%	Rec				
Parameter		Units	Conc.	Res	sult	% Rec	L	imits	Qualifiers			
Alkalinity, Total as CaCO3		mg/L	5	60	51.3	103	3	80-120		_		
MATRIX SPIKE & MATRIX SP	KE DUF	PLICATE: 3929	040		3929041							
			MS	MSD								
		92651382018	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Red	% Rec	Limits	RPD	RPD	Qual
Alkalinity, Total as CaCO3	mg/L	57.7	50	50	111	113	1	07 11	80-120	1	25	
	KE DUE	PLICATE: 3929	042		3929043	3						
MATRIX SPIKE & MATRIX SP	KE DUF	LIO/ 1.1 L. 0020										
MATRIX SPIKE & MATRIX SP	KE DUF	210/112. 0020	MS	MSD								
MATRIX SPIKE & MATRIX SP	KE DUF	92651382019	MS Spike	MSD Spike	MS	MSD	MS % Red	MSD % Rec	% Rec	RPD	Max RPD	

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

50

78.1

79.1

103

80-120

26.4

mg/L

# **REPORT OF LABORATORY ANALYSIS**

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Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

QC Batch: 756267 Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92651580016, 92651580017, 92651580018, 92651580020, 92651580021, 92651580022, 92651580023,

92651580024, 92651580025

METHOD BLANK: 3929051 Matrix: Water

Associated Lab Samples: 92651580016, 92651580017, 92651580018, 92651580020, 92651580021, 92651580022, 92651580023,

92651580024, 92651580025

ç	926515800	024, 9265158002	25									
			Bla		Reporting							
Parameter		Units	Res	ult	Limit	MDI		Analyze	d Qı	ualifiers	<i>j</i>	
Alkalinity, Total as CaCO3		mg/L		ND	5	.0	5.0	02/17/23 1	8:59			
Alkalinity, Bicarbonate (CaCO3	3)	mg/L		ND	5	.0	5.0	02/17/23 1	8:59			
Alkalinity, Carbonate (CaCO3)		mg/L		ND	5.	.0	5.0	02/17/23 1	8:59			
LABORATORY CONTROL SA	MPLE:	3929052										
			Spike	LC	CS	LCS	%	6 Rec				
Parameter		Units	Conc.	Res	sult	% Rec	L	imits	Qualifiers			
Alkalinity, Total as CaCO3		mg/L		50	50.4	10	1	80-120		_		
LABORATORY CONTROL SA	AMPLE:	3929053										
			Spike	LC	CS	LCS	%	6 Rec				
Parameter		Units	Conc.	Res	sult	% Rec	L	imits	Qualifiers			
Alkalinity, Total as CaCO3		mg/L		50	52.9	100	6	80-120		_		
MATRIX SPIKE & MATRIX SF	PIKE DUP	LICATE: 3929	9054		392905	5						
			MS	MSD								
		92651771011	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Red	c % Rec	Limits	RPD	RPD	Qual
Alkalinity, Total as CaCO3	mg/L	166	50	50	229	226	1	26 11	8 80-120	2	25	M1
MATRIX SPIKE & MATRIX SF	PIKE DUP	LICATE: 3929	9056		3929057	7						
			MS	MSD								
		92651771012	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Red	c % Rec	Limits	RPD	RPD	Qual
Alkalinity, Total as CaCO3	mg/L	ND	50	50	49.0	49.2		98 9	80-120	0	25	

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



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

QC Batch: 755348 Analysis Method: EPA 300.0 Rev 2.1 1993

QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92651580001, 92651580002, 92651580003, 92651580004, 92651580005, 92651580006, 92651580007,

92651580008, 92651580009, 92651580010

METHOD BLANK: 3924712 Matrix: Water

Associated Lab Samples: 92651580001, 92651580002, 92651580003, 92651580004, 92651580005, 92651580006, 92651580007,

92651580008, 92651580009, 92651580010

		Blank	Reporting			
Parameter	Units	Result	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					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% 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 SP		3924715										
			MS	MSD								
		92651512003	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	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 SP	3924717											
			MS	MSD								
		92651580001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	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

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



Project: Plant Yates AMA-R6

LADODATORY CONTROL CAMPLE: 2025001

Date: 04/18/2023 01:30 PM

Pace Project No.: 92651580

QC Batch: 755595 Analysis Method: EPA 300.0 Rev 2.1 1993

QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92651580011, 92651580012, 92651580013, 92651580014, 92651580015

METHOD BLANK: 3925880 Matrix: Water

Associated Lab Samples: 92651580011, 92651580012, 92651580013, 92651580014, 92651580015

		Blank	Reporting			
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND 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	

LABORATORT CONTROL SAMPLE.	3923001					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% 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 SPI	3925883											
			MS	MSD					_			
		92651580015	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	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 SP		3925885										
			MS	MSD								
		92651415007	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	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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Project: Plant Yates AMA-R6

LABORATORY CONTROL SAMPLE: 2026000

Date: 04/18/2023 01:30 PM

Pace Project No.: 92651580

QC Batch: 755672 Analysis Method: EPA 300.0 Rev 2.1 1993

QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92651576012, 92651580016, 92651580017, 92651580018

METHOD BLANK: 3926089 Matrix: Water

Associated Lab Samples: 92651576012, 92651580016, 92651580017, 92651580018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND 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	

LABORATORT CONTROL SAMPLE.	3920090	0 "			0/ <b>D</b>	
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% 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 SP	3926092											
		92651576004	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		Max	
		92031370004	Spike	Spike	IVIO	IVISD	IVIO	IVISD	/0 INEC		iviax	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	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 SP		3926094										
			MS	MSD								
		92651614002	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	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	

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



Project: Plant Yates AMA-R6

LABORATORY CONTROL SAMPLE: 2026116

Date: 04/18/2023 01:30 PM

Pace Project No.: 92651580

QC Batch: 755677 Analysis Method: EPA 300.0 Rev 2.1 1993

QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92651580020, 92651580021, 92651580022, 92651580023, 92651580024, 92651580025

METHOD BLANK: 3926115 Matrix: Water

Associated Lab Samples: 92651580020, 92651580021, 92651580022, 92651580023, 92651580024, 92651580025

		Blank	Reporting			
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND 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	

LABORATORT CONTROL SAMPLE.	3920110					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% 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 SP	IKE DUPL	ICATE: 3926	117		3926118							
			MS	MSD								
		92651580020	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	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 SF	IKE DUPL	ICATE: 3926	119		3926120							
			MS	MSD								
		92651824004	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	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	

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



### **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**

Date: 04/18/2023 01:30 PM

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.



Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

2651580001 2651580002 2651580003 2651580005 2651580009 2651580011 2651580012 2651580013 2651580015 2651580015 2651580016 2651580016	YAT-YGWC-23S YAT-YGWC-42 YAT-PZ-37 YAT-PZ-37D YAT-PZ-52D YAT-YGWC-38 YAT-YGWC-41 YAT-YGWC-43				
2651580003 2651580005 2651580006 2651580009 2651580011 2651580012 2651580013 2651580014 2651580015 2651576012 2651580016 2651580018	YAT-PZ-37 YAT-PZ-37D YAT-PZ-52D YAT-YGWC-38 YAT-YGWC-41 YAT-YGWC-43				
2651580005 2651580006 2651580009 2651580011 2651580012 2651580013 2651580014 2651580015 2651576012 2651580016 2651580018	YAT-PZ-37D YAT-PZ-52D YAT-YGWC-38 YAT-YGWC-41 YAT-YGWC-43				
2651580006 2651580009 2651580011 2651580012 2651580013 2651580014 2651580015 2651576012 2651580016 2651580018	YAT-PZ-52D YAT-YGWC-38 YAT-YGWC-41 YAT-YGWC-43				
2651580009 2651580011 2651580012 2651580013 2651580014 2651580015 2651576012 2651580016 2651580018	YAT-YGWC-38 YAT-YGWC-41 YAT-YGWC-43				
2651580011 2651580012 2651580013 2651580014 2651580015 2651576012 2651580016 2651580018	YAT-YGWC-41 YAT-YGWC-43				
2651580012 2651580013 2651580014 2651580015 2651576012 2651580016 2651580018	YAT-YGWC-43				
2651580013 2651580014 2651580015 2651576012 2651580016 2651580018					
2651580014 2651580015 2651576012 2651580016 2651580018	VAT VAMMA 2				
2651580015 2651576012 2651580016 2651580018	YAT-YAMW-2				
2651576012 2651580016 2651580018	YAT-YAMW-4				
2651580016 2651580018	YAT-YAMW-5				
2651580018	YAT-PZ-35				
	YAT-YAMW-1				
	YAT-YGWC-36A				
2651580021	YAT-YGWC-24SB				
2651580022	YAT-PZ-51				
2651580024	YAT-YGWC-49				
2651580025	YAT-YAMW-3				
2651580001	YAT-YGWC-23S	EPA 3010A	757276	EPA 6010D	757302
2651580002	YAT-YGWC-42	EPA 3010A	757276	EPA 6010D	757302
2651580003	YAT-PZ-37	EPA 3010A	757276	EPA 6010D	757302
2651580004	YAT-AMA-R6-FD-3	EPA 3010A	757276	EPA 6010D	757302
2651580005	YAT-PZ-37D	EPA 3010A	757276	EPA 6010D	757302
651580006	YAT-PZ-52D	EPA 3010A	757276	EPA 6010D	757302
2651580007	YAT-AMA-R6-EB-1	EPA 3010A	757276	EPA 6010D	757302
2651580008	YAT-AMA-R6-FB-2	EPA 3010A	757276	EPA 6010D	757302
2651580009	YAT-YGWC-38	EPA 3010A	757276	EPA 6010D	757302
2651580010	YAT-AMA-R6-FD-2	EPA 3010A	757276	EPA 6010D	757302
2651580011	YAT-YGWC-41	EPA 3010A	757276	EPA 6010D	757302
2651580012	YAT-YGWC-43	EPA 3010A	757276	EPA 6010D	757302
2651580013	YAT-YAMW-2	EPA 3010A EPA 3010A	757276 757276	EPA 6010D	757302
2651580014	YAT-YAMW-4	EPA 3010A EPA 3010A	757276 757276	EPA 6010D EPA 6010D	757302 757302
2651580015	YAT-YAMW-5	EPA 3010A EPA 3010A	757276 757276	EPA 6010D EPA 6010D	757302 757302
2651576012	YAT-PZ-35	EPA 3010A	757456	EPA 6010D	757555
2651580016	YAT-YAMW-1	EPA 3010A	757680	EPA 6010D	757761
2651580017	YAT-AMA-R6-FD-1	EPA 3010A	757680	EPA 6010D	757761
2651580018	YAT-YGWC-36A	EPA 3010A	757680	EPA 6010D	757761
2651580020	YAT-AMA-R6-FB-1	EPA 3010A	757680	EPA 6010D	757761
2651580021	YAT-YGWC-24SB	EPA 3010A	757680	EPA 6010D	757761
651580022	YAT-PZ-51	EPA 3010A	757680	EPA 6010D	757761
651580023	YAT-AMA-R6-EB-2	EPA 3010A	757680	EPA 6010D	757761
651580024	YAT-YGWC-49	EPA 3010A	757680	EPA 6010D	757761
2651580025	YAT-YAMW-3	EPA 3010A	757680	EPA 6010D	757761
2651580001	YAT-YGWC-23S	EPA 3005A	757801	EPA 6020B	757937
2651580002	YAT-YGWC-42	EPA 3005A	757801	EPA 6020B	757937
2651580002 2651580003	YAT-PZ-37		757801 757801		757937 757937
2651580003 2651580004	YAT-P2-37 YAT-AMA-R6-FD-3	EPA 3005A EPA 3005A	757801 757801	EPA 6020B EPA 6020B	757937 757937

# **REPORT OF LABORATORY ANALYSIS**

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Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica 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		
2651580008	YAT-AMA-R6-FB-2	EPA 3005A	757801	EPA 6020B	757937		
2651580009	YAT-YGWC-38	EPA 3005A	757801	EPA 6020B	757937		
2651580010	YAT-AMA-R6-FD-2	EPA 3005A	757801	EPA 6020B	757937		
2651580011	YAT-YGWC-41	EPA 3005A	757801	EPA 6020B	757937		
2651580012	YAT-YGWC-43	EPA 3005A	757801	EPA 6020B	757937		
2651580013	YAT-YAMW-2	EPA 3005A	757801	EPA 6020B	757937		
2651580014	YAT-YAMW-4	EPA 3005A	757801	EPA 6020B	757937		
2651580015	YAT-YAMW-5	EPA 3005A	757801	EPA 6020B	757937		
2651576012	YAT-PZ-35	EPA 3005A	757520	EPA 6020B	757668		
2651580016	YAT-YAMW-1	EPA 3005A	757801	EPA 6020B	757937		
2651580017	YAT-AMA-R6-FD-1	EPA 3005A	757801	EPA 6020B	757937		
2651580018	YAT-YGWC-36A	EPA 3005A	757801	EPA 6020B	757937		
2651580020	YAT-AMA-R6-FB-1	EPA 3005A	757801	EPA 6020B	757937		
2651580021	YAT-YGWC-24SB	EPA 3005A	757801	EPA 6020B	757937		
2651580022	YAT-PZ-51	EPA 3005A	757842	EPA 6020B	758014		
2651580023	YAT-AMA-R6-EB-2	EPA 3005A	757842	EPA 6020B	758014		
2651580024	YAT-YGWC-49	EPA 3005A	758264	EPA 6020B	758347		
2651580025	YAT-YAMW-3	EPA 3005A	758264	EPA 6020B	758347		
2651580001	YAT-YGWC-23S	EPA 7470A	758956	EPA 7470A	759042		
2651580002	YAT-YGWC-42	EPA 7470A	758956	EPA 7470A	759042		
2651580003	YAT-PZ-37	EPA 7470A	758956	EPA 7470A	759042		
2651580004	YAT-AMA-R6-FD-3	EPA 7470A	758956	EPA 7470A	759042		
2651580005	YAT-PZ-37D	EPA 7470A	758956	EPA 7470A	759042		
2651580006	YAT-PZ-52D	EPA 7470A	758956	EPA 7470A	759042		
2651580007	YAT-AMA-R6-EB-1	EPA 7470A	758956	EPA 7470A	759042		
2651580008	YAT-AMA-R6-FB-2	EPA 7470A	758956	EPA 7470A	759042		
2651580009	YAT-YGWC-38	EPA 7470A	758956	EPA 7470A	759042		
2651580010	YAT-AMA-R6-FD-2	EPA 7470A	758956	EPA 7470A	759042		
2651580011	YAT-YGWC-41	EPA 7470A	758956	EPA 7470A	759042		
2651580012	YAT-YGWC-43	EPA 7470A	758956	EPA 7470A	759042		
2651580013	YAT-YAMW-2	EPA 7470A	758956	EPA 7470A	759042		
2651580014	YAT-YAMW-4	EPA 7470A	758956	EPA 7470A	759042		
2651580015	YAT-YAMW-5	EPA 7470A	758956	EPA 7470A	759042		
2651576012	YAT-PZ-35	EPA 7470A	758312	EPA 7470A	758407		
2651580016	YAT-YAMW-1	EPA 7470A	758956	EPA 7470A	759042		
2651580017	YAT-AMA-R6-FD-1	EPA 7470A	758956	EPA 7470A	759042		
2651580018	YAT-YGWC-36A	EPA 7470A	758956	EPA 7470A	759042		
2651580020	YAT-AMA-R6-FB-1	EPA 7470A	758956	EPA 7470A	759042		
2651580021	YAT-YGWC-24SB	EPA 7470A	758957	EPA 7470A	759041		
2651580022	YAT-PZ-51	EPA 7470A	758957	EPA 7470A	759041		
2651580023	YAT-AMA-R6-EB-2	EPA 7470A	758957	EPA 7470A	759041		
2651580024	YAT-YGWC-49	EPA 7470A	758957	EPA 7470A	759041		

# **REPORT OF LABORATORY ANALYSIS**

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Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica 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							
2651580003	YAT-PZ-37	SM 2540C-2015	755473							
2651580004	YAT-AMA-R6-FD-3	SM 2540C-2015	755473							
2651580005	YAT-PZ-37D	SM 2540C-2015	755473							
2651580006	YAT-PZ-52D	SM 2540C-2015	755473							
2651580007	YAT-AMA-R6-EB-1	SM 2540C-2015	755473							
2651580008	YAT-AMA-R6-FB-2	SM 2540C-2015	755473							
2651580009	YAT-YGWC-38	SM 2540C-2015	755473							
2651580010	YAT-AMA-R6-FD-2	<b>D-2</b> SM 2540C-2015 755473								
2651580011	YAT-YGWC-41	SM 2540C-2015								
2651580012		SM 2540C-2015	755473							
2651580013	YAT-YAMW-2	SM 2540C-2015	755730							
2651580014	YAT-YAMW-4	SM 2540C-2015	755730							
2651580015	YAT-YAMW-5	SM 2540C-2015	755730							
2651576012	YAT-PZ-35	SM 2540C-2015	755982							
2651580016	YAT-YAMW-1	SM 2540C-2015	755997							
2651580017	YAT-AMA-R6-FD-1	SM 2540C-2015	756280							
2651580018	YAT-YGWC-36A	SM 2540C-2015	756280							
2651580020	YAT-AMA-R6-FB-1	SM 2540C-2015	755997							
2651580021	YAT-YGWC-24SB	SM 2540C-2015	756280							
2651580022	YAT-PZ-51	SM 2540C-2015	755997							
2651580023	YAT-AMA-R6-EB-2	SM 2540C-2015	755997							
2651580024	YAT-YGWC-49	SM 2540C-2015	755997							
2651580025	YAT-YAMW-3	SM 2540C-2015	755997							
2651580001	YAT-YGWC-23S	SM 2320B-2011	756067							
2651580002	YAT-YGWC-42	SM 2320B-2011	756067							
2651580003	YAT-PZ-37	SM 2320B-2011	756067							
2651580004	YAT-AMA-R6-FD-3	SM 2320B-2011	756067							
2651580005	YAT-PZ-37D	SM 2320B-2011	756067							
2651580006	YAT-PZ-52D	SM 2320B-2011	756067							
2651580007	YAT-AMA-R6-EB-1	SM 2320B-2011	756067							
2651580008	YAT-AMA-R6-FB-2	SM 2320B-2011	756067							
2651580009	YAT-YGWC-38	SM 2320B-2011	756067							
2651580010	YAT-AMA-R6-FD-2	SM 2320B-2011	756067							
2651580011	YAT-YGWC-41	SM 2320B-2011	756119							
2651580012	YAT-YGWC-43	SM 2320B-2011	756119							
2651580013	YAT-YAMW-2	SM 2320B-2011	756119							
2651580014	YAT-YAMW-4	SM 2320B-2011	756119							
2651580015	YAT-YAMW-5	SM 2320B-2011	756119							
92651576012	YAT-PZ-35	SM 2320B-2011	756264							
	.A. I = 00	OW 2020D 2011	100207							

# **REPORT OF LABORATORY ANALYSIS**

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Project: Plant Yates AMA-R6

Pace Project No.: 92651580

Date: 04/18/2023 01:30 PM

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		
2651580007	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		
2651580014	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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Dana
/Talt
INSTITUTE STRATES

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 1.10# - 02651 500
Sample Condition Client Name:	11		Me: WO#: 92651580
Upon Receipt	. /	Pro	oject #:
Courier: Fed Ex DUPS	Wer		-
Commercial Pace	USPS Other:	Clien	92651580
Custody Seal Present? Yes PNo Seals	Intact? Ye	es 🔲 No	Date/Initials Person Examining Contents 2/9/23
Packing Material: Bubble Wrap Bub	ble Bags No	one $\square$ Othe	Biological Tissue Frozen?
hermometer: 7 1//			□Yes □No □N/A
IR Gun 1D: 214	Type of Ice:	☐Wet ☐Blue	None
) Correction Factor		C C C C C C C C C C C C C C C C C C C	Hone
Cooler Temp: Add/Subtract (*C	101		Temp should be above freezing to 6°C
Cooler Temp Corrected (°C):	. 2		Samples out of temp criteria. Samples on ice, cooling process has begun
JSDA Regulated Soil ( N/A, water sample)			ina acgain
Did samples originate in a quarantine zone within the (check maps)? Tyes No	United States: CA, N	NY, or SC	Did samples originate from a foreign source (internationally,
(check maps)? Yes No			including Hawaii and Puerto Rico)?  Yes  No  Comments/Discrepancy:
Chain of Custody Present?	€J¥es □N	o	1.
Samples Arrived within Hold Time?	ØYes □N		2.
Short Hold Time Analysis (<72 hr.)?	□Yes □N		3.
Rush Turn Around Time Requested?	□Yes □N		4.
Sufficient Volume?	N		5.
Correct Containers Used? -Pace Containers Used?	₽Yes □N		6.
Containers intact?	Dives ON		7.
Dissolved analysis: Samples Field Filtered?	□Yes □N		8.
Sample Labels Match COC?	Bres ON		9.
	. /		
-Includes Date/Time/ID/Analysis Matrix:	$\mathcal{W}_{-}$		
			10
Headspace in VOA Vials (>5-6mm)? Trip Blank Present?	Yes N		10. 11.
	200		
Trip Blank Custody Seals Present?  DMMENTS/SAMPLE DISCREPANCY	Yes N	0	Field Data Required? ☐ Yes ☐ No
William State of State Control			Management Dies Dies
	***************************************		Control of the Contro
The state of the s		Lot	ID of split containers:
ENT NOTIFICATION/RESOLUTION			
	A-IA		
erson contacted:		Date/Time:	
Project Manager SCURF Review:			Date:
Project Manager SRF Review:			Date:



DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples. Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

Project #

WO#: 92651580

Due Date: 02/23/23

CLIENT: GA-GA Power

\*\*Bottom half of box is to list number of bottles

\*\*\*Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (CI-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP45-125 mL Plastic H2SO4 (pH < 2) (CI-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (CI-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (CI-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (CI-)	AG15-1 liter Amber H2SO4 (pH < 2)	AG35-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCI (N/A)	VG9T-40 ml. VOA Na252O3 (N/A)	VG9U-40 mt 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 Plastig (N/A – Iab)		BP3R-250 mL Plastic (NH2)2504 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (CI-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
2	1	2,	1			X																		Jux.				
3		2	1			M									V									X			1	
	V	2			V	N	1			I														S.V	1			
4		2	1	ĺ		V							1	1	1			1			+	+	-	2	1	1	$\dashv$	$\dashv$
5		2	1		7	1	1		1	7	1	1	7	1	1		7	+	-	$\dashv$	+	-	-	X	1	+	+	$\dashv$
6	1	7			1	()	1	1	$\dashv$	$\dashv$	1	$\dashv$	1	1	1	+	+	$\dashv$	+	+	-	+	-		4	-	-	$\dashv$
7	1	2	-\-	1	1	W	1	7	+	-	7	+	1	7	+			+	$\dashv$	+	+	- -	-	2	4	_	$\downarrow$	$\dashv$
8	7	2	+	+	1	()	7	1	+	$\dashv$	7	-	X	1	4	-	$\dashv$	1	-	+	-	4	×	X	1	4	_	_
9	1	0	1	-	1	1	H	1	-	$\rightarrow$	X	-	X	X	$\lambda$	4		_	_	_		_		2/	\	1		
10	1	-		_	X	X	X	Y	-	_	1		X	V	1	1								/				
11	Y	4	_	$-\downarrow$	X	Y	X	1	_		1		1	7	1									1				
	1				1	1	7	1			1		V	1	V										T		1	
12					1	1	V	V										1	1		1	7		1	1			$\exists$

Camala IO	T- /- T		justment Log for Pres	ci ved adilibles		
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.

	Jeryillum (B Jithium (Li), 1040A: Merr Vikalinity - 1	Anions Suit	ATTERS TO	12 17	-	na Amberia	0 4	BUZES	6	en	4	3	2	1			7	John	D TIONE	Email To:	T	Address:	Company:
	Baryllum (Ba), Cadmium (Co), Chromium (Cr), Cobait (Co), Lead (Pb), Lihium (Li), Molyodenum (Mo), Selanium (So) 7040A: Mercury (Hg). Alse add Ca, Na, K for this event. Altalinity -raport total, carbonate, and bicarbonate	Anions Suite 300.0 (Cl. F. Suifste)	ADDITIONAL COMMENTS	YAT-YAMW-2	YAT-YGWC-43	YAT-YGWC-42	YAT-YGWC-41	YAT-AMA-FD-2	YAT-YGWC-38	YAT-YGWC-49	YAT-YGWC-36A	YAT-AMA-FD-1	YAT-YAMW-1	YAT-YGWC-23S	PLE ID 1-8/, -) must be unique			THE DESCRIPTION OF THE PROPERTY.		,0		Attanta, GA	1
	Chan Will	Jones of marcel	WG G	же е	o (	WG G 7/a	Win 0				wo o	$\overline{}$	8/7 8 844	) 5	## G E E C P T E	CCOOR COOR		7	Project Name: Plant V	Purchase Orior #	-	Report To: SCS Contacts	Required Project Information:
PRINT NAME AND SIGNATURE PRINT NAME OF SAMPLER: SIGNATURE OF SAMPLER	2/2	A IArcadia 2/9/23		1 1	100	T		1	1	1		1	1030	_	TART EN	соцество		FIGHT FRIES AMA-K6	Catana Aliana San	SMT-202381	ontacts	acts.	Mon:
ement la		25.30	2	5 5 2 2 3	W		5 2 3	5 2 3	5 2 3	5 2 3	5 2 3	5 2 3	3	# O Un H2: HN HC: Na(	OH	6 Preservatives	8	anager	Pace Quote:	Address:	Company Name:	13	Section C
DATE Signed: 7 /2	William / Prace	Asl	× × × × × × × ×	×	××××	×	×	×	×	×	×	×	× / × / × / × / × / × / × / × / × / × /	Met Othe App I	or Unaliyous Test II//IV Motals , SO4 (2540C)	YAN		Bonnie Vang			Co.		
	1/10 1/23 0000 1/10 01/20 1/20 01/20	DAVIE	××	+	-	-	-	-	-	+	-	+	-	_	9315/9320 nity (SM2320B)	saled Anabath Fillered (VIN)	から はない 日本の とうない 日本の 日本の 日本の 日本の 日本の 日本の 日本の 日本の 日本の 日本の		が一般の一般の		L		
EMP in C ceived on N) stody ded oler N) mples		SAMPLE CONDITIONS	PH		577	PH:	PH:	pH:	PH:	PH:	PH:	PH: S. 33 00	Re	sekti	ual Chlorine (Y/N) 97 1 5 1 5 60	Georgia	State / Logslion		Regulatory Agassy:		Of Other	-	

	App IV: Mett Berytlum (Bu Lithium (LI), 7040A: Merc Alitalinity - s	App III Meta		12 Y	2 22	167	or making	6		9	10	a	-	1001	160	ITEM #	-	7	Reques	Phone:	Email To:	- Second	Company:	Required
	App IV: Metals 60208: Anthrony (Sb), Arsenic (As), Berlum (Bs), Benyllum (Be), Cadmium (Cd), Chromlum (Cf), Cobelt (Co), Lead (Pb), Lithium (Ll), Molybdenium (Mo), Selenium (Se) 7040A: Mercury (Hg): Also add Ce, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate	Anioras Suite 300.0 (CI, F, Suiffate) App III Metalas: Boron 6020B, Ce 6010D	ADDITIONAL COMMERTS	YAT-AMA-R6-FB-2	YAT-AMA-R6-FB-1	YAT-AMA-R6-EB-2	YAT-AMA-R6-EB-1	YAT-P2-35	YAT-PZ-52D	YAT-PZ-51	YAT-PZ-37D	YAT-AMA-R6-FD-3	YAT-PZ-37	YAT-YAMW-5	YAT-YAMW-4	WPLE ID  surrector per box.  2, 0-9 / -)  surrector per box.  surrector per box.			Requested Due Date: SALA THY	470.620.6176 Fey	-		any: GA Power	₽
	end (Pb), lyan William,	Ne		0					2	2 6	2 6	1 6	3			SAMPLE TYPE (G=GRAS			Project Name: Pfant	2	Task No: YAT-CCR-AS	Copy To: Arcadia Contacts	Regard To: SCS Commetton:	Section B
PRINT Name of SAMPLER:	18 2/4/2 18 2/4/25	2	APPILLATION DATE	3	1	10.0	1	- 01111	+	9 1248 -	+	0 0740		1	TIME DATE TIME	TART	СОЦЕСТЕО		Plant Yates AMA-R6		YAT-CCR-ASSMT-202381	nects	etion:	
(Arcadis) - CSS(CO)		21/72 S		6 3 3	6 3 3	6 3 3	8 3	6 3	6 3	6 3	8 3 3	8 3	6 3 3	8 3 3	HOUNG HOUNG NECT MEET	1 OH 25203 thenol	Pro	0	Pace Project Manager (A. 7.4	Address:	1	Attention: Southern Co.	invoice information:	A F COCOMENT.
2 DATE Signed: 2/9/23	Trus of	TAPPILLATION 3	×	×	×	×	× :	×	×	×	×	×	×	× 1	App I Cl. F. DS ( CAD S	ill/IV Metals + Ca, Na, K . SO4 (2540C) 9315/9320 nity (SM2320B)	YAN Paquanted Arestyca	is vame	9					vii relevant fields must be completed accurately.
TEMP in C Received on lee (Y/N)	121126 2130 mlb	100	P. P.	<b>早</b>	PH:	PH.		是是	PH:	THE PRINCE OF TH	早	I I	IH:		esidu	uel Chlorine (Y/N)	Georgia (Yai)	Bists / Location	Wally Assembles			Page :		leted accurately.
Custody Sealed Cooler (Y/N) Samples Intact (Y/N)		BAMPLE COMDITIONS	NOD		1 87		6.12 000		1.75 156	200	5.18 003					92651580						トしるし		



DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022	

Laboratory receiving samples:	_	
Asheville Eden Greenwood Hunter	rsville 🔲 Raleigh	Mec 104 : 02651590
Sample Condition Upon Receipt  Client Name:		Project #: WO#: 92651580 PM: BV Due Date: 02/23/23
Courier: Fed Ex DUPS DU	SPS CC	
_ =/ - =	ther:	CLIENT: GR-CA 1 Cast
Custody Seal Present? Yes No Seals Intact?	Yes No	Date/Initials Person Examining Contents 2/9/13
Packing Material: Bubble Wrap Bubble Bags Thermometer: 2 N/	None 🗌 O	ther Biological Tissue Frozen?
18/10 Cum 10: 1/4	of Ice: Wet DE	
Cooler Temp: Add/Subtract (°C) 4	-01	Temp should be above freezing to 6°C  Samples out of temp criteria. Samples on ice, cooling process
Cooler Temp Corrected (°C):	_	has begun
USDA Regulated Soil ( ☐ N/A, water sample)  Did samples originate in a quarantine zone within the United St (check maps)? ☐ Yes ☐ No	ates: CA, NY, or SC	Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No
(check maps):		Comments/Discrepancy:
Chain of Custody Present?	ves ONO ON/A	1.
	Yes ONO ON/A	2.
	Yes N/A	3.
	Yes Do DN/A	4.
	TES NO NA	5.
	Pes □No □N/A  ₩es □No □N/A	6.
	YES NO NA	7.
	Yes No No	8.
	Tes No N/A	9.
-Includes Date/Time/ID/Analysis Matrix: 1		
Headspace in VOA Vials (>5-6mm)?	Yes No MA	10.
	Yes No No	11.
Trip Blank Custody Seals Present?  COMMENTS/SAMPLE DISCREPANCY	Yes No N/A	Field Data Required? Yes No
		Lot ID of split containers:
CLIENT NOTIFICATION/RESOLUTION		
Person contacted:	Date/Tim	ie:
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

Project #

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

- \*\*Bottom half of box is to list number of bottles
- \*\*\*Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (CI-)	8P3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP45-125 mL Plastic H25O4 (pH < 2) (CI-)	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) (CI-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (CI-)	AG1S-1 liter Amber H2S04 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCI (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 ml VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A lab)	BPIN	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (CI-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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		,	erved Samples		
Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #
	ype of Preservative	ype of Preservative pH upon receipt	ype of Preservative pH upon receipt Date preservation adjusted		Amount of reservative

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.

	Lithium (Li 7040A: Ma Alkalinity	App III Ma	Aniona Su		12	- Contract	20	9	6	7	il and	or design	8 555	0 9983	8 530	-	ITEM #		- Control	Danie.	Email To:		Address:	Required
	oryman (es), cauraum (cd), Chromaim (ch, Cobat (Co), Lead (Pb), Lithium (Li), Molycdonum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Ma, K for this avent. Alkalinity - report total, carbonate, and bicarbonate	up III Metala: Boron 6020B, Ca 8010D	Anions Sulte 300.0 (Ct, F, Sulfiste)	ADDITIONAL COMMENTS	YAT-YAMW-3	YAT-YAMW-2	YAT-YGWC-43	YAT-YGWC-42	YAT-YGWC-41	XATAMATOS YAT-UMM -10-FO-	YAT-YGWC-38	YAT-YGWC-49	YAT-YGWC-36A	YAT-AMA-FD-1	YAT-YAMW-1	YAT-YGWC-23S	SAMPLE ID  SAMPLE ID  Solution  CAZ 0-01,-)  Semple ids must be unique  These		2 7 7 7 T	7/0.020.01/6  Fax	aucoker@southe		Atlanta, GA	哥
	14 PS	23	M	RELING	wg	wg	we	WG	WG	0-2 WG	WG	WG	WG	wg	wg	wa	MATRIX CODE (see valid codes to	(Boi o	Project Number:	Project Name:	ᅃ	Tauk No: YA	1"	Section B Required Project information:
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Received on lice (Y/N) Custody Sealed Cooler (Y/N) Samples Intact (Y/N)				SAMPLE COMBITIONS	pH: 7,-10 01	non or	N SO CAR	DI. M. W. (21)	100	1	2112	E I	E G		E :		17W 2   280		6		Agenage		2	-

		Alkelinity	App IV: Mi Benyllium (Li) Lithium (Li)	App III Me	Anions Su		12 1	A GI	10	9	10 mg	6900	0	6	4	2	22		ITEM#			Requeste	Email Io:		Address:	Company.	Required
		Alkalinity - report total, carbonate, and bicarbonate	App IV: Metats 6020B: Antimony (Sb), Arsenic (As), Barkum (Bs), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead Lithium (Li), Molybdenum (Mo), Selenium (Se)	App III Metals: Boron 6020B, Ca 6010D	Anions Suite 300.0 (Cl, F, Suffate)	ADDITIONAL COMMENTS	YAT-AMA-R6-FB-2	YAT-AMA-R6-FB-1	YAT-AMA-R6-EB-2	YAT-AMA-R8-E8-1	YAT-PZ-35	YAT-PZ-52D	YAT-PZ-51	YAT-PZ-37D	YAT-AMA-R6-FD-3	YAT-PZ-37	YAT-YAMW-5	YAT-YAMW-4	SAMPLE ID One Character per box. (A-Z, 0-8 /, -) Sample ide must be unique		141.14	d Disp Date: Car Car Car	aro son sare		Atlanta, GA		section A Required Client Information:
			n (Bs), ), Lead (Pb),																Weter WT Was War WY Product St. Self-Sold St. St. WP WP WP WP WP Ar Ar Ar Ar Theres 19		Lieben Mounde	Project Name:	Purchas	Task No:	Copy To:	Report To:	Section B
			dian	123	1	RIELING	wg	WG	WG	WG	WG	WG	WG	9W	WG	WG	we	WG	MATRIX CODE (see valid coo		ACTUROUS.	Name:	Purchase Order#:			0.	Section B Required Project information:
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Due Date:	#:92651580		Alkalinity - report total, carbonate, and bicarbonate	Beryillum (Be), Cadmium (Cd), Chromium (Cr), Cobett (Co), Lead (Pb), Lithium (L), Molyodenum (Mo), Selenium (Se)	App III Melals: Boron 6020B, Ca 6010D	Anions Suite 300.0 (Cl. F. Sulfate)	A CONTRACT COMMENTS	ADDITIONAL COMMENTS	YAT-YAMW-2	YAT-YGWC-43	YAT-YGWC-42	YAT-YGWC-41	YAT-AMA-FD-2	YAT-YGWC-38	YAT-YGWC-49		・マダインを	YAT-YAMW-1	YAT-YGWC-23S	SAMPLE ID One Character per box. (A-Z, 0-9 /) Sample ids must be unique			led Due Date:	470 620 6176 Fax		П	Company: GA Power
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Due Date: 02/23/23	)#:92651580		Lithum (J), Mölyödenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Ma, K for this event. Alkalinity - report total, carbonate, and bicarbonate	App IV: Metata 6020B: Antimony (Sb), Arsenic (Aa), Berium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobait (Co), Lead (Pb),	App III Metals: Boron 60208, Ca 6010D	Anions Sulte 300.0 (Cl. F. Sulfate)	ADDITIONAL COMMENTS	YAT-AMA-R6-FB-2	YAT-AMA-R6-FB-1	YAT-AMA-R6-EB-2	YAT-AMA-R6-EB-1	YAT-PZ-35	YAT-PZ-52D	YAT-PZ-51	YAT-PZ-37D	YAT-AMA-R6-FD-3	YAT-PZ-37	YAT-YAMW-5	YAI-YAMW-4	APLE ID rector per box. 2,0-0',-) to must be unique		Requested Due Date: Std TAT		a: laucoker@southernco.com	1		Company: GA Power	A second
/23/23				11		.,	2													Water WT Weeks Water Work Water Product P Solificial OL OR OR OR These TS	1	Project Number:	Project Name:	Purchase Order #:	Task No:	Copy To:	Required Project Information:	Section 8
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PM: BV
CLIENT: GR-GR Power

App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Berium (Be), Beryllum (Be), Cedmulm (Cg), Chromium (Cr), Cobell (Co), Lead (Pb), Lithlum (Ll), Moyodenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alitalinity - report total, carbonata, and bicarbonate pp III Metels: Boron 60208, Ca 6010D unions Suite 300.0 (CI, F. Suitate) 4 10 -~1 ITEM # 00 0 Q1 ۵ w YAT-YGWC-24SB (A-Z, 0-8 / , -)
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Thesse SAN SE AMA SE COM RELINQUISHED BY / AFFILIATION 1: mulpsayush CONTRACT OR MATRIX CODE (see valid codes to left) 0 SAMPLE TYPE (G=GRAB C=COMP) Ship Espells START MIPLER NAME AND SIGNATURE TIME COLLECTED SIGNATURE of SAMPLER: PRINT Name of SAMPLER: /Arcadis DATE ı END 21023 TIME 1013 DATE SAMPLE TEMP AT COLLECTION 8 # OF CONTAINERS 0021 THE (Arcadia) - Kan-(Arcadis) -Unpreserved w H2SO4 HNO3 Preservatives PONTONIAN HCI AX NaOH ACCEPTED BY / AFFILIATION Asunska SA Na25203 Mathanol Other **Analyses Test** YM App IIVIV Metals + Ca, Na, H 18/11/2/10/2/1000 DATE Signed: CI, F, SO4 × × TOS (2540C) × RAD 9315/9320 Alkalinity (SM2320B) 22/01/23 10/13 DATE 140 TEMP in C Residual Chlorine (Y/N) SAMPLE CONDITIONS 52651580 35 X (Y/N) Custod Sealed Cooler (Y/N) 20 Samples (Y/N)

Section A
Required Citent Information:
Company: GA Power
Address: Atlanta, GA equested Due Date: 470.620.6176 Fax 0.6176 Fax Report To: SCS Contacts
Copy To: Arcadis Contacts
Task No: YAT-CCR-ASSMT-302381
Purchase Order #: Plant Yates AMA-R6 Address:
Pace Quota:
Pace Project Manager, RAANIC VANS
Pace Prolis #: 10840 Attention: Southern Co. Company Name: invoice information: Section C is Filtered (YAI) Page : W Q

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2	5		App IV: A Beryflum Beryflum (I Ithium (I 7040A: N Alkelinit)	App III M	Anions S	18.00	12	1	10	9	8	7	6	G1	4	3	2	-3	ITEM#		Total Park	D TONE	Email To:		Address:	TIPOT I
PM: BV Due Date:	MOCTCOZE . #OM	04 - 00CE4 E0	App IV: Actals 60208: Antimory (Sb), Amenic (As), Barium (Bg), Beyfilum (Be), Cadmium (Cd), Chromium (Cr), Cobett (Co), Lead (Pb), Lithium (Li), Molybodenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Ma, K for this event. Alkelinity - report total, carbonate, and bicarbonate	App III Metals: Boron 6020B, Ca 6010D	Anions Suite 300.0 (Ct, F, Suffate)	AUDITIONAL COMMENTS	YAT-AMA-R6-FB-2	YAT-AMA-R6-FB-1	YAT-AMA-R6-EB-2	YAT-AMA-R6-EB-1	YAT-PZ-35	YAT-PZ-52D	YAT-PZ-51	YAT-PZ-37D	YAT-AMA-R6-FD-3	YAT-PZ-37	YAT-YAMW-5	YAT-YAMW-4	SAMPLE ID  Social Character per box.  (A-Z, 0-0/; -)  Sample ids must be unique  The way of the character per box.  (A-Z, 0-0/; -)  Sample ids must be unique  The control con		respondence and the second	4/0.520.51/6 Fax	laucoker@souther		s: Atlanta, GA	18
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CLIENT: GA-GA Power

			7040A: N	Beryllum Lithium (t	App III M	Aniona S		Ī	3 3	10	9		7	0	(II	4	63	10	1	ITEM#	7	Reque	Phone:	Email To:		Address.	Required (
			7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonata, and bicarbonata	Beryillum (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Ll), Molybdenum (Mo), Selentum (Se)	App III Metals: Boron 6020B, Ca 6010D	Aniona Sulte 300.0 (Ct. F., Sulfete)	AUDINONAL COMMENTS	TAI-TAMW-3	YAT-YAMW-2	YAT-YGWC-43	YAT-YGWC-42	YAT-YGWC-41	YAT-AMA-FD-2	YAT-YGWC-38	YAT-YGWC-49	YAT-YGWC-36A	YAT-AMA-FD-1	YAT-YAMW-1	YAT-YGWC-23S	SAMPLE ID One Character per box. (AZ, 0-9 /) Semple ids must be unique		Requested Due Date: A A TAT		o: laucoker@southernco.com	Nuaria, GA	MY GA POWER	Section A Required Client Information:
				, Lead (Pb),	1	1											*			MATRIX CODE Debting Water DAY Water WIT Water WAT Water Percalcal SIL OI Wips Wips AP Other Tisses Tisses		Project Number:	Project Name:	Purchase Order #	Copy To:	Report To:	Section B Raquired
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# **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	Parent		Analysis	5
Sample ID	Lab ID	Matrix	Collection Date	Sample	RAD	MET	GEN CHEM
YAT-YGWA-1I	92651382001 92651421001	Water	2/7/2023		Х	х	Х
YAT-YGWA-1D	92651382002 92651421002	Water	2/7/2023		Х	Х	Х
YAT-YGWA-2I	92651382003 92651421003	Water	2/7/2023		Х	Х	Х
YAT-GWA-2	92651382004 92651421004	Water	2/7/2023		Х	Х	Х
YAT-YGWA-5D	92651382005 92651421005	Water	2/7/2023		Х	Х	Х
YAT-YGWA-20S	92651382006 92651421006	Water	2/7/2023		Х	Х	Х
YAT-YGWA-21I	92651382007 92651421007	Water	2/7/2023		Х	Х	Х
YAT-YGWA-17S	92651382008 92651421008	Water	2/7/2023		Х	Х	Х
YAT-YGWA-18S	92651382009 92651421009	Water	2/7/2023		Х	х	Х
YAT-YGWA-18I	92651382010 92651421010	Water	2/7/2023		Х	Х	Х
YAT-YGWA-39	92651382011 92651421011	Water	2/7/2023		Х	х	Х
YAT-YGWA-47	92651382012 92651421012	Water	2/8/2023		Х	Х	Х

			Sample Collection	Parent		Analysis	;
Sample ID	Lab ID	Matrix	Date	Sample	RAD	MET	GEN CHEM
YAT-YGWA-30I	92651382013 92651421013	Water	2/8/2023		х	Х	Х
YAT-YGWA-14S	92651382014 92651421014	Water	2/8/2023		х	Х	Х
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	х	X
YAT-YGWA-4I	92651382018 92651421018	Water	2/9/2023		х	Х	Х
YAT-YGWA-5I	92651382019 92651421019	Water	2/9/2023		X	Х	Х

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

Note:

QA = quality assurance

## **Inorganic Analysis Introduction**

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

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

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

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

#### **Data Review Report**

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

## **Metals Analyses**

## 1. Holding Times

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

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

#### Note:

s.u. = standard units

All samples were analyzed within the specified holding times.

#### 2. Blank Contamination

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

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

Analytes were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

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

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

## 3.1 MS/MSD Analysis

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

The MS/MSD analysis was performed using sample YAT-YGWA-2I in association with SW-846 6010D analysis, however the concentrations of calcium and sodium in the unspiked sample were greater than four-times the spike concentration. The MS/MSD sample results were not evaluated.

The MS/MSD analysis performed using sample YAT-YGWA-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	Rep	orted	Performance Acceptable		Not Required
	No	Yes	No	Yes	
Inductively Coupled Plasma-Atomic Emission Spectrom Inductively Coupled Plasma-Mass Spectrometry (ICP-MS Atomic Absorption – Manual Cold Vapor (CV)		AES)			
Tier II Validation					
Holding Times		Х		Х	
Reporting limits (units)		Х		Х	
Blanks	I		ı	I	1
A. Method Blanks		Х		Х	
B. Equipment/Field Blanks	Х				Х
Laboratory Control Sample (LCS) %R		Х		Х	
Matrix Spike (MS) %R		X		Х	
Matrix Spike Duplicate (MSD) %R		X		Х	
MS/MSD Precision (RPD)		Х		Х	
Laboratory Duplicate (RPD)	Х				X
Field Duplicate (RPD)	Х				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,	Rep	orted	Performance Acceptable		Not Required
SM2540C, USEPA 300.0	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		Х		Х	
Reporting limits (units)		Х		Х	
Blanks	I	1	ı	I	
A. Method Blanks		Х		Х	
B. Equipment/Field Blanks	Х				Х
Laboratory Control Sample (LCS) %R		Х		Х	
Matrix Spike (MS) %R		Х		Х	
Matrix Spike Duplicate (MSD) %R		Х		Х	
MS/MSD Precision (RPD)		Х		Х	
Laboratory Duplicate (RPD)		Х		Х	
Field Duplicate (RPD)	Х				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 
$$_{MethodBlan \, k} = \frac{ / \, Sample \, - \, Blank \, / }{ \sqrt{ \left( U_{Sample} \, \right)^2 + \left( U_{Blank} \, \right)^2 }}$$

#### Where:

Usample = uncertainty of the sample

U<sub>Blank</sub> = 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:

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  $< \pm 3$  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.

<sup>\* =</sup> 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

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

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

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:

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

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. <u>If either one of these criteria is true, the sample result is considered "non-detect".</u>

- 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	Rep	orted		rmance eptable	Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		Х		Х	
Activity, +/- uncertainty, MDC/MDA		Х		Х	
Blanks			1	ı	
A. Method Blanks		Х	Х		
B. Equipment/Field Blanks	Х				Х
Carrier (Surrogate) %R		Х		Х	
Tracer (Surrogate) %R		Х		Х	
Laboratory Control Sample (LCS) %R		Х		Х	
Laboratory Control Sample Duplicate (LCSD) %R		Х		Х	
LCS/LCSD Precision (RPD)		X		Х	
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

Sknrije Osinger

PEER REVIEW: Joseph C. Houser

DATE: May 8, 2023

Chain of	Custody	/ Data Qu	ıalifier Su	ımmary T	able

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1	470.620.6176 Fax	Project Nam		Plan	nt Yates	Poole	d Upgra	adient	-			roject	Mag	1000		Vice	• 0	01-	-12	,			_										
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1	MATRIX	CODE	9	₹		COLL	ECTED			1	1		D			2020		N.			1	1			1 1			11					
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*	(A-Z, 0-91, -) ^*	AR TO	CODE	E	1				TEMP	1 3	2							8	ş		_	32	123	rsnu .		- 1	1		Ę	92	US	17	US
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ITEM			MATRIX	SAMPLE TYPE				4	SAMPLE	# OF CONTAINERS	Unpreserved	H2S04	8		E S	8 P	18	Analys	I	S	125	931	E.	111		1	1	11	ğ	1			
11	YAT-YGWA-47		-		DATE	TIME	DATE	TIME	3	0	5	Ÿ	HINO3	오	HOEN	Methanol	Other.		App IIVIV Metals	CI. F. SO4	TDS (2540C)	RAD 9315/9320	Akalinity (SMZ320B)	App I / II (gpysum		1		H	Residual	1			
2	YAT-GWA-2		WG				-	-		6	-	-	3					Г	x	×	_		х		$\neg$	1		$\Box$	1	pH:	59	4	
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6	YAT-YGWA-5D		WG	-			-			6	3		3			T		1	×	×	×	x	х		1	$\top$	$\top$	$\vdash$	1	pH:			
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7	YAT-YGWA-18S		WG							6	3		3						x	x	x	x	x		1	$\top$		$\sqcap$	1	pH:			
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disagitacetrostic	YAT-YGWA-20S		WG				_~			6	3	$\sqcup$	3						х	×	×	×	x			1		$\top$	1	pH:			
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10	YAT-YGWA-21I		WG	_			-	Name .		6	3	П	3	T					х	x	х	х	x		+	+	+	$\dashv$	1	pH:		-	
TO SECURE AND ADDRESS OF	YAT-YGWA-30I		WG	G				-		6	3		3	Т		$\top$			x	×	x	x	×	-+		+-	+	+	-			-	
12	YAT-YGWA-14S		WG	G			-	- 1		6	3	$\Box$	3	$\top$	+	†			x	×	x	x	X	$\dashv$	+	+	+	+	-	pH:		-	
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	ite 300.0 (CI, F, Sulfate)	21	1	rl	2		/Arcadis	7/8/	23	0	9 4	~ T	7.	-		FOEM IN	il.	STAND.	SELF-P	TOP .		-	1000		0231427	+	Filmstern!	COLUMN TO		RAMPLI	CORE	DITION	
pp III Me	lats: Boron 6020B, Ca 6010D; 20B: Zn, Ag, Ni, V	12.		1.1	11.	10		21.1		-		-	Ky.	er	_	VV.	1111	7-	4	1	12	L	-	7	8/15	10	900	<u>'</u>			_		
on N. M	206. 2n, Ag, Ni, V 206. 2n, Ag, Ni, V 206. 2n, Ag, Ni, V 206. 2n, Ag, Ni, V 207. 2n, Ag, Ni, V 208. 2n, Ag, Ni, Ni, Ni, Ni, Ni, Ni, Ni, Ni, Ni, Ni	Ry	in	PVI	lliam	1/10	rit	4/9/	23	1/4	40	<i>'</i>								ı.			- 1		(2)7			-			1	- 1	
as youngs	De), Cadmium (Cd), Chromium (Cr), Cohalt (Co), Load In	.						, ,					-	-								-	+	-		+		-	-		+-		
THE PARTY OF THE	). WCIVDGERUM (MC) Selepium (Se)	o).					103			-		+																				- 1	
140A: Mi Ikalinity	reury (Hg). Also add Ca, Na, K for this event report total, carbonate, and bicarbonate											- 1											-								-175	1	
	, saredise, and other purity												COLUMN TO SERVICE STATE OF THE PERSON STATE OF					-						-		_							
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Section		Section B							Section	on C															•		7
CONTRACTOR OF THE PERSON NAMED IN	ed Client Information:	Required Pro	oct Ir	nformation	n:				Invol	e Info	rmatto	n:					-	-					F	Page :		Of	1
Compa		Report To:		S Conta					Attent	ion:	Sout	hem	Co.	. 77									-		- Company		mille.
Addres	s: Atlanta, GA	Copy To:		adis Cor					-	any Na	ame:																
Email T	- 1-1-2 1			CR-ASSM	T-2023S1	7 (10)			Addre										902	40.00	SERVE N	o toro	Rep	ukatony E	gency	AUTO CHEST AND	是是特別的場合
Phone:		Purchase Orde Project Name:		Diam'r.						Quote:									-			-					
	sted Due Date: Strck THT	Project Number		Plant Y	ates Poole	d Upgra	dient		-	Profile	Manag			le D'(	ांचर (	SON	N, E	MA	A	18000	ATRITUME.	est traus	8	to / Lea	riter .	(6)4480 (ng/(1)	- 古代的一种主动科学
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1	MATRIX Drinking W.	CODE No.	on to	C=COMP)	COLU	ECTED		3	1 -		Pres	ervat	ives			_	_	4	_	-		4	++-	_ B	123 435 75	<b>中国国际</b>	Charles Services
1	Water	WT	andes	9		1	1	AT COLLECTION					11	-		Na, K	- [	1	1				1 1		Į.		
1	Waste Wat Product	er WW	Ì	<b>₹</b>		1		7				1	11	1	22	Ca, N		-	1_	only)	1	1	1 1	€	1	)	2.6
1	SAMPLE ID 500'5040	SIL OL	800	(G=GRAB	START	E	ND	ğ	2				1 1		اق ا	+	- 1		8	8		1	11	6	000	~//	1011
l	One Character per box. Wee	WP AR			T			4	CONTAINERS	.			11	-	8	App III/V Metals	- 1.	_   8	Alkalinity (SM2320B)	App (/ II (gpysum	1	ı		1 2	N)(	151 <sup>L</sup>	101
*	Committee of the Commit	or	MATRIX CODE	SAMPLE TYPE	1	1	1 1	TEMP	I É I	Unpreserved H2SO4	1 1		2		2	₩.	z	3 3	5	8	1	1	1 1	1 5	10		
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難,情	YAT-YGWA-47		wG			-	-		-	3	3	+	$\sqcap$	+	$\sqcap$	X	_	_	x x	_		$\top$	$\forall \top$	$\top$	oH:		
2	YAT-GWA-2		WG	G		-	-		6	3	3		TT		11	х	x	x x	x x	×		Ì		П	pH:		
3	YAT-YGWA-4I		WG	G			-		6	3	3		$\Pi$	T	11	x	×	x 3	x x			T			pH:		
- 4	YAT-YGWA-51		WG	20121		-			6	3	3	Τ			11	х	×	x x	××					П	pH:		n one
5	YAT-YGWA-5D		WG	G 27	13 1622	1 -	-		6	3	3				11	×	×	x ;	x x			T			pH: 6.	Coly C	05
8	YAT-YGWA-17S		WG	G		-	-		6	3	3				1 1	x	×	x :	x x						pH:		
7	YAT-YGWA-18S		WG	G		-	-		6	3	3				] [	×	×	x :	x x						pH:		
8	YAT-YGWA-18I		WG	G			-		6	3	3				] [	×	х	x z	x x						pH:		
9	YAT-YGWA-20S		WG	G 27	23 WS	<b>&gt;</b> -	-		6	3	3				] [	x	x	x ;	x x						pH: 5	63	فاص
10	YAT-YGWA-21I		WG	G 20	23 1248	4 -	[ - ]		6	3	3				] [	×	x	X Z	x x						pH:Co.	82 (	TOP
11	YAT-YGWA-30I		WG	G		-			8	3	3		П		11	×	×	x i	x x			T			pH:		
12	YAT-YGWA-14S		WG	G		-			6	3	3			n.		X	x	x 3	x x						pH:		
	ADDITIONAL COMMENTS	RE	LING	UISNED S	Y / AFFILIA	TION	DA	re	TI	ME			CCEP	TED 8	YIAF	FILM	ALION	1			STAC		TIME		SAMPLE	COMBINO	MS .
Anions S	Suite 300.0 (CI, F, Sulfate)	2	1	-2	$\sim I$	/Arcadis	2/8/	23	08	00	2	M.	di	الرح			_		raminores.	2/	18/2	10	800				
App III &	Aetals: Boron 6020B, Ca 6010D; 3020B: Zn, Ag, Ni, V	Lin	_1	\$ 37	MISC	-	0/0/		-		12		h	1:11			10	n a		2/	8/21	Τ.	Gu				
App VII	Matela 60000, Astronov (Cs.)	15	16	11	1		401	25	05.	-	110	100	, N	//(	14~	4	1	na	_	1	1/21	10	966		<u> </u>	<del>  </del>	
Berytliun	Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), n (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead ( (Ll), Molybdenum (Mo), Selenium (Se)	Ph) Cyc	3	Nilla	am /17,	14	12/1/	B	124	10		•												1	1	L	
Lithium	(LI), Molybdenum (Mo), Selenium (Se)						11		1											1		1				1	
7040A: I	Mercury (Hg). Also add Ca, Na, K for this event. ty - report total, carbonate, and bicarbonate										1									1		1		1	1	1	1 1
Lananin	y - report total, carbonate, and dicarbonate		_		DAMP!	ED MARKE	AND BIGH	ATHE	zeticia	STATE OF THE PARTY	Manuel	Asigo	1018.F395		+880 P.O	NE 4	granty it.	10 KH	chelle.	20500	CAN'S	VEH DAG	CONTRACTOR OF THE PARTY OF THE	-	-	<del> </del>	
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					l s	IGNATUR	RE of SAMI	PLER:	-	En	-2	な			1	, E	ATE	Sign	ed: 🦽	3/8	123	\$		TEMP	Received (YM)	3888	Sar

Section	5/15/2	Section B							Se	ction															r					
	ed Client Information:	Required Pro	ject li	nformation:							Inform	natio	n:												- 1	n		1		1
Compa		Report To:	SC	S Contact	s		S.P.STIFFES WILLIAM	******		entio	-	_	hem	Co.	-				-	_	1				L.	Pag	e :		Of	
Addres	Mana, on	Сору То:		adis Cont					Co	mpai	ny Nan										1		124							
Email T	O: Javonkar@na.uk			CR-ASSMT-	202351				Ad	dress	s:							_		-	dille	Sever	4200ESS	0355180	R	essuant.	A	COOCI III	uses remissible	California Val
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	MATRIX Divising Wals	COD€ N DW	ies to iaft)	=COMP)	COLI	ECTED		ž	T	Γ		Pres	ervat	ives		NW.	-				Ann	Pyrolu	Pilter	7) be	AND .					
	SAMPLE ID Services Services	WT WW P SL CL	(see vaiid coo	GRAB	TART		:ND	NT COLLECT!	8							Test	2				20B)	n only)					(V/N)		<b>.</b>	
ITEM #	(A-Z, 0-9 / , -)  Sample ids must be unique  Tibus	MP AR GI TS	MATRIX CODE	SAMPLE TYPE	TIME	DATE	TIME	SAMPLE TEMP /	# OF CONTAINE	Unpreserved	H2SO4	E L	NeOH	Na2S203	Methanoi	ahrice	top IIITV Metals	2, F. SO4	DS (2540C)	AD 9315/9320	Ukalinity (SM23;	no 17 II (gpysnu					Residual Chlorin	920	\$42	J
1	YAT-YGWA-47		WG	G			-		6	3	-	_		$\vdash$		-	-	-	-	-	-	+	+	╁	+	+	╄	<del> </del>		
2	YAT-GWA-2		wg	G	†	T	1		-	-		_	+-	$\vdash$	+	4	_	+	-	-	$\rightarrow$	↲	+	╁	₩		-	pH:		
3	YAT-YGWA-41		$\rightarrow$		╁┈──	-	-		-	-		-	+	$\vdash$	+	-	-	╌	-	-	-	4	+	+	₩		-	pH:		
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8_			WG		1	-	-		6	3		3	1	1			x	×	x	X	х			I	П		1	pH:		,
6	YAT-YGWA-17S		WG	G 19/2	3 1116		-		6	3		3			T	7	x	x	×	x	x	7					1	pH: 5.	117	000
7	YAT-YGWA-18S	c_westimine-in-in-	WG	6 2/7	1348				6	3	$\Box$	3	1	$\vdash$	$\top$	1	x	×	x	×	v	+	+	+-	$\vdash$	+	1	pH: S	02	201
8	YAT-YGWA-18I		WG	62/7		-			6	3	$\vdash$	,	+	$\vdash$	+	1	-	-		_	-	+	+	+	++	+	1	-		
9	YAT-YGWA-20S		wg		1				-	-		-	+	$\vdash$	+	-	-	-	$\vdash$	-	-	+	-	+-	$\vdash$	-	H	pΗ: 6.	<u> </u>	010
10			$\vdash$				-		-	-	-	+	+	$\vdash$	-	4	-	-	$\vdash$		-	+		+	$\vdash$	+		pH:		
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8	YAT-YGWA-4I		wg g	242	अञ	<b>-</b>			6	3	3	,				1	х	х	x s	хх							23	OlB
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8	YAT-YGWA-5D		WG G	15.4			**		6	3	-	1			1	1 1	x	x i	χİ,	x x	11	_	1			pH:	100	
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7	YAT-YGWA-18\$		WG G			_	-		6	3		, [			十	1	х	x .	x   2	x x	$\Box$		Ħ			pH;		
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11	YAT-YGWA-30I	i	WG G	<b>†</b>			_	***************************************	6	3		:	1	十		1 1	x	x	x to	x x	Ħ		1			pH:	***************************************	
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Арр III Ме	atais: Boron 6020B, Ca 6010D; 020B: Zn, Ag, Ni, V	/k	m	leps:	egns1		-1-1				7			Maria de la constantia de la constantia de la constantia de la constantia de la constantia de la constantia de					بيد	concup					,			
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	WO#: 92651382	2			St	GNATUR	E of SAM	PLER:	7	が		2	ン				D	ATE	Şign	ød: ،	2	08	23		TEMP in	Receiv los (Y/N)	See of the see	Start S

Due Date: 02/22/23



SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92651382	No qualifiers assigned						
92651421	YAT-GWA-2	SW846 9320	Radium-228	0.749 +/- 0.364	pCi/L	J	Blank contamination
	YAT-YGWA-5D	SW846 9320	Radium-228	1.68 +/- 0.524	pCi/L	J	Blank contamination
	YAT-YGWA-21I	SW846 9320	Radium-228	1.07 +/- 0.475	pCi/L	J	Blank contamination
	YAT-YGWA-39	SW846 9320	Radium-228	0.707 +/- 0.366	pCi/L	J	Blank contamination
	YAT-YGWA-3I	SW846 9320	Radium-228	0.775 +/- 0.381	pCi/L	J	Blank contamination
	YAT-YGWA-3D	SW846 9320	Radium-228	1.72 +/- 0.524	pCi/L	J	Blank contamination

Abbreviations:

pCi/L = picoCuries per liter

Qualifiers:

J = estimated result





April 13, 2023

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

RE: Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between February 08, 2023 and February 10, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

• Pace Analytical Services - Greensburg

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

Sincerely,

Bonnie Vang

bonnie.vang@pacelabs.com

Bonnie Vaing

(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**

(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

Louisiana DHH/TNI Certification #: LA180012 Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020 Maryland Certification #: 308

KY WW Permit #: KY0000221

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



## **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



# **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
2651421003	YAT-YGWA-2I	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2651421004	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
2651421006	YAT-YGWA-20S	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2651421007	YAT-YGWA-21I	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2651421008	YAT-YGWA-17S	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2651421009	YAT-YGWA-18S	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2651421010	YAT-YGWA-18I	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2651421011	YAT-YGWA-39	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2651421012	YAT-YGWA-47	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
	YAT-YGWA-30I	EPA 9315	RMS	1	PASI-PA



## **SAMPLE ANALYTE COUNT**

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320		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
2651421015	YAT-YGWA-3I	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2651421016	YAT-YGWA-3D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2651421017	YAT-YGWA-40	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2651421018	YAT-YGWA-4I	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2651421019	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



Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Lab Sample ID	Client Sample ID			_		_
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651421001	YAT-YGWA-1I					
EPA 9315	Radium-226	0.154 ±	pCi/L	03/	/02/23 08:32	
		0.213 (0.464)				
		C:91% T:NA				
EPA 9320	Radium-228	0.507 ±	pCi/L	02	/28/23 12:41	
		0.358 (0.686)				
		C:76%				
		T:84%				
Total Radium Calculation	Total Radium	0.661 ± 0.571	pCi/L	03/	/02/23 15:06	
		(1.15)				
2651421002	YAT-YGWA-1D	, ,				
EPA 9315	Radium-226	0.282 ±	pCi/L	0.37	/02/23 08:32	
		0.218	P = " =	00/		
		(0.382)				
EPA 9320	Radium-228	C:89% T:NA 0.638 ±	pCi/L	02	/28/23 16:06	
LI A 3020	Naululli-220	0.374	pCi/L	02/	/20/23 10.00	
		(0.676)				
		C:78% T:86%				
Total Radium Calculation	Total Radium	0.920 ±	pCi/L	03/	/02/23 15:06	
		0.592				
		(1.06)				
2651421003	YAT-YGWA-2I					
EPA 9315	Radium-226	0.0443 ±	pCi/L	03/	/02/23 08:32	
		0.127 (0.314)				
		C:93% T:NA				
EPA 9320	Radium-228	0.492 ±	pCi/L	02/	/28/23 16:06	
		0.308 (0.559)				
		C:81%				
		T:89%				
Total Radium Calculation	Total Radium	0.536 ±	pCi/L	03/	/02/23 15:06	
		0.435 (0.873)				
2651421004	YAT-GWA-2	( )				
EPA 9315	Radium-226	0.254 ±	pCi/L	വാ	/02/23 08:32	
	. tadidiii EEO	0.191	P0"L	03/	. 52,20 50.02	
		(0.314)				
EPA 9320	Radium-228	C:94% T:NA 0.749 ±	pCi/L	02	/28/23 16:06	
_17,0020	Nadidili 220	0.364	PO//L	02/	,20,20 10.00	
		(0.596)				
		C:81%				
Total Radium Calculation	Total Radium	T:82% 1.00 ±	pCi/L	വാ	/02/23 15:06	
Total Radium Galoulation	rotal readium	0.555	PO#E	03/	,02,20 10.00	
		(0.910)				

## **REPORT OF LABORATORY ANALYSIS**



Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Lab Sample ID	Client Sample ID					
Method	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	$3.99 \pm 1.10$ (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)	pCi/L		03/02/23 08:33	
EPA 9320	Radium-228	C:94% T:NA 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	

## **REPORT OF LABORATORY ANALYSIS**



Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651421009	YAT-YGWA-18S					
EPA 9315	Radium-226	0.0706 ± 0.136 (0.314)	pCi/L		03/02/23 08:33	
EPA 9320	Radium-228	C:93% T:NA 0.585 ± 0.433 (0.859) C:80%	pCi/L		02/28/23 16:06	
Total Radium Calculation	Total Radium	T:89% 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%	pCi/L		02/28/23 16:07	
Total Radium Calculation	Total Radium	T:91% 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	

## **REPORT OF LABORATORY ANALYSIS**



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	pCi/L		03/02/23 08:33	
EPA 9320	Radium-228	(0.274) C:92% T:NA 0.417 ± 0.354 (0.703)	pCi/L		02/28/23 16:07	
Total Radium Calculation	Total Radium	C:73% T:89% 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)	pCi/L		03/01/23 20:01	
EPA 9320	Radium-228	C:85% T:NA 0.734 ± 0.414 (0.749) C:79%	pCi/L		02/28/23 16:07	
Total Radium Calculation	Total Radium	T:83% 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)	pCi/L		03/01/23 20:03	
EPA 9320	Radium-228	C:93% T:NA 0.775 ± 0.381 (0.638) C:75%	pCi/L		02/28/23 16:07	
Total Radium Calculation	Total Radium	T:88% 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%	pCi/L		02/28/23 16:07	
Total Radium Calculation	Total Radium	T:92% 2.74 ± 0.893 (0.944)	pCi/L		03/02/23 15:06	

# **REPORT OF LABORATORY ANALYSIS**



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	



Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Sample: YAT-YGWA-1I PWS:	<b>Lab ID: 9265142</b> ' Site ID:	1001 Collected: 02/07/23 11:45 Sample Type:	Received:	02/08/23 09:00	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	vices - Greensburg				
Radium-226	EPA 9315	0.154 ± 0.213 (0.464) C:91% T:NA	pCi/L	03/02/23 08:32	2 13982-63-3	
	Pace Analytical Serv	vices - 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 Serv	vices - Greensburg				
Total Radium	Total Radium Calculation	0.661 ± 0.571 (1.15)	pCi/L	03/02/23 15:06	7440-14-4	



Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Sample: YAT-YGWA-1D PWS:	<b>Lab ID: 926514</b> Site ID:	21002 Collected: 02/07/23 13:40 Sample Type:	Received:	02/08/23 09:00	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Se	ervices - 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 Se	ervices - 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 Se	ervices - Greensburg				
Total Radium	Total Radium Calculation	0.920 ± 0.592 (1.06)	pCi/L	03/02/23 15:06	7440-14-4	



Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Sample: YAT-YGWA-2I PWS:	Lab ID: 9265 Site ID:	<b>1421003</b> Collected: 02/07/23 15:40 Sample Type:	Received:	02/08/23 09:00	Matrix: Water	
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	2 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	5 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	



Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Sample: YAT-GWA-2 PWS:	Lab ID: 9265 Site ID:	<b>1421004</b> Collected: 02/07/23 11:48 Sample Type:	Received:	02/08/23 09:00	Matrix: Water	
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	2 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	5 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	



Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Sample: YAT-YGWA-5D PWS:	<b>Lab ID:</b> 9265142 Site ID:	21005 Collected: 02/07/23 16:22 Sample Type:	Received:	02/08/23 09:00	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Se	rvices - Greensburg				
Radium-226	EPA 9315	2.31 ± 0.576 (0.258) C:91% T:NA	pCi/L	03/02/23 08:32	2 13982-63-3	
	Pace Analytical Se	rvices - Greensburg				
Radium-228	EPA 9320	1.68 ± 0.524 (0.615) C:84% T:81%	pCi/L	02/28/23 16:06	5 15262-20-1	
	Pace Analytical Se	rvices - Greensburg				
Total Radium	Total Radium Calculation	3.99 ± 1.10 (0.873)	pCi/L	03/02/23 15:06	7440-14-4	



Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Sample: YAT-YGWA-20S PWS:	Lab ID: 9265 Site ID:	<b>1421006</b> Collected: 02/07/23 14:50 Sample Type:	Received:	02/08/23 09:00	Matrix: Water	
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 08:3	3 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 16:00	6 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.794 ± 0.566 (1.09)	pCi/L	03/02/23 15:00	6 7440-14-4	



Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Sample: YAT-YGWA-21I PWS:	Lab ID: 9265 Site ID:	<b>1421007</b> Collected: 02/07/23 12:48 Sample Type:	Received:	02/08/23 09:00	Matrix: Water	
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	3 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	6 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	6 7440-14-4	



Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Sample: YAT-YGWA-17S PWS:	Lab ID: 9265 Site ID:	1421008 Collected: 02/07/23 11:16 Sample Type:	Received:	02/08/23 09:00	Matrix: Water	
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	3 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	5 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	



Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Sample: YAT-YGWA-18S PWS:	Lab ID: 9265 Site ID:	<b>1421009</b> Collected: 02/07/23 13:48 Sample Type:	Received:	02/08/23 09:00	Matrix: Water	
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	3 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	6 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.656 ± 0.569 (1.17)	pCi/L	03/02/23 15:00	6 7440-14-4	



Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Sample: YAT-YGWA-18I PWS:	Lab ID: 9265 Site ID:	<b>1421010</b> Collected: 02/07/23 12:31 Sample Type:	Received:	02/08/23 09:00	Matrix: Water	
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	3 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	7 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	



Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Sample: YAT-YGWA-39 PWS:	Lab ID: 9265 Site ID:	<b>1421011</b> Collected: 02/07/23 16:15 Sample Type:	Received:	02/08/23 09:00	Matrix: Water	
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	3 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	7 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	6 7440-14-4	



Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Sample: YAT-YGWA-47 PWS:	<b>Lab ID:</b> 9265143 Site ID:	21012 Collected: 02/08/23 17:02 Sample Type:	Received:	02/09/23 12:35	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Se	rvices - Greensburg				
Radium-226	EPA 9315	0.146 ± 0.149 (0.267) C:88% T:NA	pCi/L	03/02/23 08:33	3 13982-63-3	
	Pace Analytical Se	rvices - Greensburg				
Radium-228	EPA 9320	0.229 ± 0.339 (0.731) C:71% T:84%	pCi/L	02/28/23 16:07	7 15262-20-1	
	Pace Analytical Se	rvices - Greensburg				
Total Radium	Total Radium Calculation	0.375 ± 0.488 (0.998)	pCi/L	03/02/23 15:00	6 7440-14-4	



Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Sample: YAT-YGWA-30I PWS:	Lab ID: 9265 Site ID:	1421013 Collected: 02/08/23 15:10 Sample Type:	Received:	02/09/23 12:35	Matrix: Water	
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 08:3	3 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 16:0	7 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.417 ± 0.442 (0.977)	pCi/L	03/02/23 15:00	6 7440-14-4	



Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Sample: YAT-YGWA-14S PWS:	<b>Lab ID: 9265</b> 1 Site ID:	<b>421014</b> Collected: 02/08/23 13:50 Sample Type:	Received:	02/09/23 12:35	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	Services - Greensburg				
Radium-226	EPA 9315	0.0964 ± 0.190 (0.439) C:85% T:NA	pCi/L	03/01/23 20:01	1 13982-63-3	
	Pace Analytical S	Services - Greensburg				
Radium-228	EPA 9320	0.734 ± 0.414 (0.749) C:79% T:83%	pCi/L	02/28/23 16:07	7 15262-20-1	
	Pace Analytical S	Services - Greensburg				
Total Radium	Total Radium Calculation	0.830 ± 0.604 (1.19)	pCi/L	03/02/23 15:06	6 7440-14-4	



Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Sample: YAT-YGWA-3I PWS:	Lab ID: 9265 Site ID:	1421015 Collected: 02/08/23 10:00 Sample Type:	Received:	02/09/23 12:35	Matrix: Water	
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	3 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	7 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	



Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Sample: YAT-YGWA-3D PWS:	<b>Lab ID: 9265142</b> Site ID:	1016 Collected: 02/08/23 11:40 Sample Type:	Received:	02/09/23 12:35	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	vices - 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 Ser	vices - Greensburg				
Radium-228	EPA 9320	1.72 ± 0.524 (0.622) C:78% T:92%	pCi/L	02/28/23 16:07	7 15262-20-1	
	Pace Analytical Ser	vices - Greensburg				
Total Radium	Total Radium Calculation	2.74 ± 0.893 (0.944)	pCi/L	03/02/23 15:06	7440-14-4	



Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Sample: YAT-YGWA-40 PWS:	Lab ID:         92651421017         Collected:         02/08/23           Site ID:         Sample Type:		Received:	02/09/23 12:35	Matrix: Water	Qual
Parameters	Method Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	
	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	4 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	8 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	7 7440-14-4	



Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Sample: YAT-YGWA-4I PWS:	<b>Lab ID:</b> 9265142′ Site ID:	1018 Collected: 02/09/23 09:55 Sample Type:	Received:	02/10/23 14:00	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Serv	vices - 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 Serv	vices - 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 Serv	vices - Greensburg				
Total Radium	Total Radium Calculation	1.12 ± 0.652 (1.04)	pCi/L	03/06/23 14:37	7440-14-4	



Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Sample: YAT-YGWA-5I PWS:	Lab ID: 9265 Site ID:	<b>1421019</b> Collected: 02/09/23 11:26 Sample Type:	Received:	02/10/23 14:00	Matrix: Water	
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	9 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	7 7440-14-4	



Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

QC Batch: 567031 Analysis Method: EPA 9315

QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92651421001, 92651421002, 92651421003, 92651421004, 92651421005, 92651421006, 92651421007,

92651421008, 92651421009, 92651421010, 92651421011, 92651421012, 92651421013, 92651421014,

92651421015, 92651421016

METHOD BLANK: 2753389 Matrix: Water

Associated Lab Samples: 92651421001, 92651421002, 92651421003, 92651421004, 92651421005, 92651421006, 92651421007,

92651421008, 92651421009, 92651421010, 92651421011, 92651421012, 92651421013, 92651421014,

92651421015, 92651421016

 Parameter
 Act ± Unc (MDC) Carr Trac
 Units
 Analyzed
 Qualifiers

 Radium-226
 0.0316 ± 0.106 (0.272) C:91% T:NA
 pCi/L
 03/02/23 10:00

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



Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

QC Batch: 567129 Analysis Method: EPA 9320

QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92651421017, 92651421018, 92651421019

METHOD BLANK: 2754449 Matrix: Water

Associated Lab Samples: 92651421017, 92651421018, 92651421019

 Parameter
 Act ± Unc (MDC) Carr Trac
 Units
 Analyzed
 Qualifiers

 Radium-228
 0.353 ± 0.207 (0.369) C:83% T:82%
 pCi/L
 03/03/23 11:44

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



Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

QC Batch: 567128

QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

EPA 9315

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

Analysis Method:

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



Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

QC Batch: 567032 Analysis Method: EPA 9320
QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92651421001, 92651421002, 92651421003, 92651421004, 92651421005, 92651421006, 92651421007,

92651421008, 92651421009, 92651421010, 92651421011, 92651421012, 92651421013, 92651421014,

92651421015, 92651421016

METHOD BLANK: 2753395 Matrix: Water

Associated Lab Samples: 92651421001, 92651421002, 92651421003, 92651421004, 92651421005, 92651421006, 92651421007,

92651421008, 92651421009, 92651421010, 92651421011, 92651421012, 92651421013, 92651421014,

92651421015, 92651421016

 Parameter
 Act ± Unc (MDC) Carr Trac
 Units
 Analyzed
 Qualifiers

 Radium-228
 0.623 ± 0.341 (0.611) C:84% T:91%
 pCi/L
 02/28/23 12:40

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



#### **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

Date: 04/13/2023 09:09 AM

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.



## **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Date: 04/13/2023 09:09 AM

ab ID Sample ID QC Batch Metho		QC Batch Method	QC Batch	Analytical Method	Analytica Batch	
2651421001	YAT-YGWA-1I	EPA 9315	567031	_		
2651421002	YAT-YGWA-1D	EPA 9315	567031			
2651421003	YAT-YGWA-2I	EPA 9315	567031			
2651421004	YAT-GWA-2	EPA 9315	567031			
2651421005	YAT-YGWA-5D	EPA 9315	567031			
2651421006	YAT-YGWA-20S	EPA 9315	567031			
2651421007	YAT-YGWA-21I	EPA 9315	567031			
2651421008	YAT-YGWA-17S	EPA 9315	567031			
2651421009	YAT-YGWA-18S	EPA 9315	567031			
2651421010	YAT-YGWA-18I	EPA 9315	567031			
2651421011	YAT-YGWA-39	EPA 9315	567031			
2651421012	YAT-YGWA-47	EPA 9315	567031			
2651421013	YAT-YGWA-30I	EPA 9315	567031			
2651421014	YAT-YGWA-14S	EPA 9315	567031			
2651421015	YAT-YGWA-3I	EPA 9315	567031			
2651421016	YAT-YGWA-3D	EPA 9315	567031			
2651421017	YAT-YGWA-40	EPA 9315	567128			
2651421018	YAT-YGWA-4I	EPA 9315	567128			
2651421019	YAT-YGWA-5I	EPA 9315	567128			
2651421001	YAT-YGWA-1I	EPA 9320	567032	567032		
2651421002	YAT-YGWA-1D	EPA 9320	567032	567032		
2651421003	YAT-YGWA-2I	EPA 9320	567032			
2651421004	YAT-GWA-2	EPA 9320	567032			
2651421005	YAT-YGWA-5D	EPA 9320	567032			
2651421006	YAT-YGWA-20S	EPA 9320	567032			
2651421007	YAT-YGWA-21I	EPA 9320	567032			
2651421008	YAT-YGWA-17S	EPA 9320	567032			
2651421009	YAT-YGWA-18S	EPA 9320	567032			
2651421010	YAT-YGWA-18I	EPA 9320	567032			
2651421011	YAT-YGWA-39	EPA 9320	567032			
2651421012	YAT-YGWA-47	EPA 9320	567032			
2651421013	YAT-YGWA-30I	EPA 9320	567032			
2651421014	YAT-YGWA-14S	EPA 9320	567032			
2651421015	YAT-YGWA-3I	EPA 9320	567032			
2651421016	YAT-YGWA-3D	EPA 9320	567032			
2651421017	YAT-YGWA-40	EPA 9320	567129			
2651421018	YAT-YGWA-4I	EPA 9320	567129			
2651421019 2651421019	YAT-YGWA-5I	EPA 9320	567129			
2651421001						
2651421001 2651421002	YAT-YGWA-1I	Total Radium Calculation Total Radium Calculation	571130 571130			
	YAT-YGWA-1D		571130 571130			
2651421003	YAT-YGWA-2I	Total Radium Calculation	571130			
2651421004	YAT-YOWA FD	Total Radium Calculation	571130			
2651421005	YAT-YGWA-5D	Total Radium Calculation	571130			
2651421006	YAT-YGWA-20S	Total Radium Calculation	571130			
2651421007	YAT-YGWA-21I	Total Radium Calculation	571130			
2651421008	YAT-YGWA-17S	Total Radium Calculation	571130			
2651421009	YAT-YGWA-18S	Total Radium Calculation	571130			

## **REPORT OF LABORATORY ANALYSIS**



## **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Date: 04/13/2023 09:09 AM

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	Total Radium Calculation 571130		
92651421013	YAT-YGWA-30I	Total Radium Calculation	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	Total Radium Calculation 571751		
92651421018	YAT-YGWA-4I	Total Radium Calculation	571751		
92651421019	YAT-YGWA-5I	Total Radium Calculation	571751		

	Pace	DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt						
	PROTECT SERVERS	Effective Date: 11/14/						
Co	sheville Sample Conditi Upon Receipt urier:	iving samples: Eden Greenwoo		ville [		Ргој	WO#:92651421	
	Commercial stody Seal Prese	Pace	Geals Intact?	s er: Yes		lient	92651421	
Coo Coo USD	old samples origin	Correction Add/Sub  sted (°C):  II ( N/A, water sample)  nate in a quarantine zone with	tract (°C)TO~/°	<b>-</b>	ne □ C	Other Blue	None  Temp should be above freezing to 6°C  □Samples out of temp criteria. Samples on ice, cooling process has begun	
Ì		icsinv				T	Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No  Comments/Discrepancy:	
-	Chain of Custod		<b>⊟</b> Tes	□No	□N/A	1.		
-		within Hold Time?	□ Ves	□No	□N/A	2.		
F		Analysis (<72 hr.)?	Yes	440	□N/A	3.		
-	Rush Turn Arous	nd Time Requested?	□Yes	ZINO	□N/A	4.		
ļ	Sufficient Volum	e?				1		
Г	Correct Containe		Pres	□No	□N/A	5.		
	-Pace Contain			□No	□N/A	6.		
	Containers Intact		- Hes	□N₽	□N/A	-		
	Dissolved analysi	s: Samples Field Filtered?		□No	□N/A	7.		
	Sample Labels M	atch COC?	Yes	No	□N/A	8.		
	-Includes Date	/Time/ID/Analysis Matrix	Wes	□No	□n/a	9.		
L	Headspace in VO	A Vials (>5-6mm)?	□Yes	□No	DNA	10.		
	Trip Blank Presen		□Yes	□No	ØN/A	11.		
		y Seals Present?	□Yes	□No	ØN/A			
СОММ	ENTS/SAMPLE DIS	CREPANCY					Field Data Required? ☐Yes ☐No	
CLIENT N	IOTIFICATION/RES	SOLUTION			Lo	t ID o	of split containers:	
Person	contacted:			(	Date/Time:			
Proj	iect Manager SC	URF Review:					Date:	
Proj	ect Manager SR	F Review:					Date:	



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

Project #

\*\*Bottom half of box is to list number of bottles

\*\*\*Check all unpreserved Nitrates for chlorine

	BP4U-125 mL Plastic Unpreserved (N/A) (CI-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP45-125 mL Plastic H2SO4 (pH < 2) (CI-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (CI-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (CI-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (CI-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG35-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCI (N/A)	VG9T-40 mL VOA Na252O3 (N/A)	VG9U-40 mt VOA Unpreserved (N/A)	DG9V-40 mt VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mt Sterile Plastic (N/A ~ lab)	SP2T-250 mL Sterile Plassic (N/A - lab)	2011	BP3R-250 mL Plastic (NH2)2504 (9.3-9.7)	AGOU-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mt. Amber Unpreserved vials (N/A)
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Sample ID	T	pH Ac	ljustment Log for Pres	erved Samples		
sample IU	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #
						-64

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.

				Alkalinity	App N: M	App III Me	Anions St	10000000000000000000000000000000000000	12	13	ò	0	00	7	6	on	4	3	13	1	ITEM#	Keques	Titolia	Email 10:		Address:	Compa	Requir
				Liftium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ce, Ne, K for this event. Alkalinity - report total, carbonate, and bicarbonate	App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Berylium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb),	App III Metals: Beron 6020B, Ca 6010D; App VII 6020B; Zn, Ag, Ni, V	Anions Suite 300.0 (Cl. F. Sulfate)	ADDITIONAL COMMENTS						YAT-YGWA-3D	YAT-YGWA-3I	YAT-YGWA-2I	YAT-YGWA-1D	YAT-YGWA-1I	YAT-YGWA-40	YAT-YGWA-39	SAMPLE ID  SAMPLE ID  Sample ids must be unique	Requested Due Date: Standard 747	2	laucoker@souther		s: Atlanta, GA		۱¥
						2	0														CODE Native WY NATIVE WAT NATIVE WAT NATIVE WAT NATIVE NAT	Project Number:	Project Name:	Purchase Order #;	Task No:	Copy To:	Report To	Required Project Information:
				_	Man	1	Jake	RELAK	-	-		Н	+	WG	wG	WG	WG	WG	WG	WG	MATRIX CODE (see valid codes to left)	mber:	me:			- 1		Projec
					2	1	6 S.	HEIDE	E					6	6	6	9	6	G	6	SAMPLE TYPE (G=GRAB C=COMP)		Pla		CCR-	rcadi		t Infon
-	Т	1	BA		Mina	7	Swarson	RELINQUISHED BY / AFFILIATION	L							2/713 15	2/700	2/1/2			START DATE TI		Plant Yates Pooled Upgradient		VAT-CCR-ASSMT-202391	Arcadis Contacts	Contacts	mation:
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SIGNATURE of SAMPLER:		PRINT Name of SAMPLER:	Bampler mame and Signature		~	2003	/Arcadis	¥	!	1	1	1	1	1	1	1	1	ı	ı				Upgradi					
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	Pace.	DC#_Title: ENV-FR	M-HUN1-0083	3 v02_	Sample	Cond	dition Upon Receipt
	IMANIEU GIVES	Effective Date: 11/14/	2022				
	Laboratory rece						
	Asheville	Eden Greenwood	d 🗀		1		
	Sample Condit Upon Receipt	ion Client Name:	d U Hunters	ville	Raleig	h 🗌 Projec	WO#: 92651421
	Courier:	True G	T TOW			rioje	PM: BV Due Date: 03/01/23
	Commercial	Fed Ex	JUPSUSP Othe	•	c	lient	CLIENT: GA-GA Power
	Custody Seal Press	ent? Yes INO	Seals Intact?	□Yes	□No	E E	>D(1)
	Packing Material:	Double 141		0.000.000.000	_		Date/Initials Person Examining Contents:
	Thermometer:	Bubble Wrap	Bubble Bags	Nor	ne 🗌 c	ther	Biological Tissue Frozen?
	☐1R Gun I	10: 214	T	_			LYes No ANA
	F1	47 Correction	Type of ic	e: <u> </u>	₩et 🔲	liue	None
	Cooler Temp:	Add/Subt	ract (°C)TO~/1		-	1	Temp should be above freezing to 6°C
	Cooler Temp Corre	cted (°C):	40				Samples out of temp criteria. Samples on ice, cooling process
	USDA Regulated So	oil ( N/A, water sample)	10-				has begun
	(check maps)?	nate in a quarantine zone with  Yes No	in the United States	s: CA, NY,	or SC	I	Did samples originate from a foreign source (internationally,
	Chair as C					Τ'	including Hawaii and Puerto Rico)? Yes No  Comments/Discrepancy:
	Chain of Custod		<b></b>	□No	□N/A	1.	Comments, Discrepancy:
		d within Hold Time?	□ Wes	□No	□N/A	2.	
		e Analysis (<72 hr.)?	□Yes	ANO	□N/A	3.	
	Rush Turn Arou	nd Time Requested?	□Yes	<b>P</b> No	□N/A	4.	
	Sufficient Volum	ne?	Pres	□No	□N/A	5.	
	Correct Contain		☐Yes	□No	□N/A	6.	
	-Pace Contain		- Wes	□No	□N/A	J	
	Containers Intac		Lives	□No	□N/A	7.	
	Sample Labels M	is: Samples Field Filtered?	□Yes	□No	□N/A	8.	
	Sample Labels IV	ratch COC?	□Yes	□No	□n/a	9.	
	-Includes Date	e/Time/ID/Analysis Matrix:_	W	<b>-</b>	= =		
		0A Vials (>5-6mm)?	□Yes	□No	N/A	10.	
	Trip Blank Preser	nt?	□Yes	□No	ZN/A	11.	
		dy Seals Present?	□Yes	□No	ØN/A		a
CO	MMENTS/SAMPLE DI	SCREPANCY			1000	- 7	Field Data Required? ☐Yes ☐No
	-						The Data Regulieu: Tes INO
CLIE	NT NOTIFICATION/RE	SOLUTION			Lo	t ID of	split containers:
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-							
Pe	rson contacted:		-	[	Date/Time:		
	Project Manager S	CURF Review:					
	Project Manager SI						Date:
	· · olere managet, 21	M REVIEW:					

Date:



Effective Date: 11/14/2022

Theck mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples. ceptions: VOA, Coliform. TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

Project #

WO#:92651421

PM: BV

Due Date: 03/01/23

CLIENT: GA-GA Power

'Bottom half of box is to list number of bottles

\*\*Check all unpreserved Nitrates for chlorine

BP4U-125 mL Plastic Unpreserved (N/A) (CI-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 (iter Plastic Unpreserved (N/A)	BP45-125 mL Plastic H2SO4 {pH < 2} (CI-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (CI-)	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) (CI-)	AG15-1 liter Amber H2SO4 (pH < 2)	AG35-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4CI (N/A)(CI-)	DG9H-40 mL VOA HCI (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mt 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 mt Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	DF/10	8P3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AGOU-100 mL Amber Unpreserved (N/A) (CI-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mt Amber Unpreserved vials (N/A)
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		pH Ac	ljustment Log for Pres	erved 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. Dut of hold, incorrect preservative, out of temp, incorrect containers.

Regulate Contention:   Regulate Contention:			7040A: M	Beryllium	App VII B	Anions S	OLAS STREET	333 J	2000	÷	\$	•	•	7	6	6	4	3	2	1	ITEM#		1	Reque	Phone:	Email To:	Address:	Company:	Required
According Company   Acco			J., Molyosehum (Mo), Selenium (Se) Tercury (Ho). Also add Ca, Na, K for this event. Tepont total, carbonata, and bicarbonata	letels 6020B: Antimony (Sb), Arsenic (As), Banium (Ba), (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb	1208: Zn, Ag, Ni, V	ulte 300.0 (CI, F, Suffate)	P. International Control of the Cont	ADDITIONAL COMMENTS	YAT-YGWA-14S	YAT-YGWA 301	VAT VGWA-20S	VAT VOIMA 200	YAT-YGWA 181	YAT-YGWA-18S	YAT-YGWA-17S	YAT-YGWA-5D	YAT-YGWA-5I	YAT-YGWA-4I	YAT-GWA-2	YAT-YGWA-47				Standard FAT	470.620.6176 Fax	laucokar@southernco.com	Allanta, GA	GA Power	Client information:
COLOR ASSISTANT   COLOR STAR						27	200																. rojout realitie	Project Name	Purchase Ord		Copy To:	Report To:	Required Pr
Page   Page					5	1	LNOU	WG														nt)	٩		Jer #:	YAT-C	A	3	olect Ir
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Effective Date: 11/14/2022	
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Laboratory receiving samples:		***************************************			
The state of the s	ntersv	ille 🗌	Raleigl		Mechaniscuilla Atlanta Kornorsvilla
Sample Condition Upon Receipt  Client Name:	1. <i>}</i> ^	1		Proje	WO#: 92651421
Courier: Fed Ex UPS Commercial Pace	USPS Othe		CI	ient	PM: BV Due Date: 03/01/23 CLIENT: GA-GA Power
Custody Seal Present? Yes Mo Seals Intai	ct?	Yes	□No		↑ DA-
Packing Material: Bubble Wrap Bubble 8	Bags	None		ther	Date/Initials Person Examining Contents: 46/23  Biological Tissue Frozen?
Thermometer:					Yes No NA
7	pe of Ice	e: 🗗	Wet □B	lue	None
Cooler Temp: Correction Factor:	1 1 1	~			
( ) ( ) ( ) ( )	~/ "		<u></u>		Temp should be above freezing to 6°C
Cooler Temp Corrected (°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 Unite		20 13			0
(check maps)? Yes No	o States:	: CA, NY,	or SC		Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No
Chain of Custody Present?					Comments/Discrepancy:
Samples Arrived within Hold Time?	Elves	□No	□N/A	1.	
Short Hold Time Analysis (<72 hr.)?	Dives	□No	□N/A	2.	
Desch Trees Assessed To the	□Yes	<b>M</b> O	□N/A	3.	
	Yes	No	□N/A	4.	
	Yes	□No	□N/A	5.	
Dana Cantal	☐Yes	□No	□N/A	6.	
Containers labout?	□wes □wes	□No □No	□N/A	7	
Dissolved early in Co	Yes	□No	□N/A	7.	
Samuel Laboration of the Communication of the Commu	Yes	□No	□N/A □N/A	8. 9.	
1.4	/		□!//A	<i>J.</i>	
-Includes Date/Time/ID/Analysis Matrix:					
Headspace in VOA Vials (>5-6mm)?	Yes	□No	DINA	10.	,
Trip Blank Present?	Yes	No	ZN/A	11.	
Trip Blank Custody Seals Present?	Yes	□No	ØN/A		
COMMENTS/SAMPLE DISCRÉPANCY					Field Data Required? Yes No
					7 / 6 (6) (6) (6) (6) (6) (6) (6) (6) (6) (
			(3)		
LIENT NOTIFICATION/RESOLUTION			lo	t ID o	f split containers:
				-	
Person contacted:		D	ate/Time:	_	4,
Project Manager SCURF Review:					Date:
Project Manager CDF Devices					
		The statement of		The same of	Date:



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

Project #

WO#: 92651421

PM: BV

Due Date: 03/01/23

DG9U-40 mL Amber Unpreserved vials (N/A)

CLIENT: GA-GA Power

\*\*Bottom half of box is to list number of bottles \*\*\*Check all unpreserved Nitrates for chlorine

BP4U-125 mL Plastic Unpreserved (N/A) (Cl-BP42-125 mL Plastic ZN Acetate & NaOH (>9) WGFU-Wide-mouthed Glass jar Unpreserved AG3U-250 mL Amber Unpreserved (N/A) (CI-) AG1U-1 liter Amber Unpreserved (N/A) (CI-) BP4S-125 mL Plastic H2SO4 (pH < 2) (CI-) BP48-125 mL Plastic NaOH (pH > 12) (CI-) AG0U-100 mL Amber Unpreserved (N/A) (CI-) BP3U-250 mL Plastic Unpreserved (N/A) BP2U-500 mL Plastic Unpreserved (N/A) BP1U-1 liter Plastic Unpreserved (N/A) BP3R-250 mL Plastic (NH2)2504 (9.3-9.7) V/GK (3 vials per kit)-VPH/Gas kit (N/A) BP3N-250 mL plastic HNO3 (pH < 2) AG3S-250 mL Amber H2SO4 (pH < 2) KP7U-50 mL Plastic Unpreserved (N/A) SP5T-125 mL Sterile Plastic (N/A - lab) SP2T-250 mL Sterile Plastic (N/A - lab) DG94-40 mL Amber NH4Cl (N/A)(CI.) VG9U-40 mL VOA Unpreserved (N/A) AG15-1 liter Amber H2504 (pH < 2) VSGU-20 mL Scintillation vials (N/A.) AG1H-1 liter Amber HCl (pH < 2) VG9T-40 mL VOA Na25203 (N/A) DG9V-40 mL VOA H3PO4 (N/A) DG9H-40 mL VOA HC! (N/A) 2 Į 3 4 5

Sample ID	Type of Preservative	pH upon receipt	justment Log for Pres	er veu samples		
			Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

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				Lithium (L 7040A: Ma Alkalinity	App N: M Beryllium	App III Ma	Anions Su		12	111	Political Property of	0		7	0	8	4	Ca .	2	# P	ITEM#		Roquest	Phone:	Email To:		Address:	Required
				Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Ne, K for this event. Alkalinity - report total, carbonata, and bicarbonata	App N: Metats 60208: Antimony (Sb), Arsenic (As), Barium (Ba), Beryffium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Leec	App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V	Anions Suite 300.0 (Ci, F. Sulfate)	ADDITIONAL COMMENTS	YAT-YGWA-14S	YAT-YGWA-30I	YAT-YGWA-21I	YAT-YGWA-20S	YAT-YGWA-18I	YAT-YGWA-18S	YAT-YGWA-178	YAT-YGWA-5D	YAT-YGWA-5I	YAT-YGWA-4I	YAT-GWA-2	YAT-YGWA-47	SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample itts must be unique		Requested Due Date: Serci TAT	470.620.6176 Fax		Turking (C)		€
					n (Ba), Lead (Pb),	T												W			Drawing Water WY Weats Water WY Product III III III III III III III III III I		Project Number:	Project Name:	Purchase Order #:	Task No:	Report To:	Required Project Information:
					MAS	ST.	1/2	RELINGUISHED BY / AFFILIATION	wg	wg	wg	wg	WG	WG	WG	wg	WG	WG	wG	WG	MATRIX CODE (see valid code		1		Order #:	YAT-CCR-ASSMT-2023S1	SCS	roject in
					1/1	1	1	JISMED	6	6	6 2	6 27	G	6	6	G 271	G	6	6	G	SAMPLE TYPE (G=GRAB C=	COMP)		Plant )		R.ASS	Cont	formati
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SIGNATURE of SAMPLER:		PRINT Name of SAMPLER:	Bampler hame and emaature		4	1	Arcadis	X	Ŀ	:	1	1	:	1	•	1	1	_	1		DATE	CLED		Plant Yates Pooled Upgradient				
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Pace DC#_Title: ENV-FRM	-HUN1-0083 v	/02_Sa	ample Co	nditio	n Upon Re	ceipt		
Effective Date: 11/14/20	22			<del></del>			-	
oratory receiving samples:							J	
heville Eden Greenwood	Huntersvil	lle 🗌	Raleigh	Me	chanicsville	Atlant	ta Kern	ersville
Sample Condition Client Name: Upon Receipt	- Pour	_ _		- oject #:				e.jviiie
urier: Fed Ex Lucation Commercial Pace	JPS USPS Other	·	Clier	t				
stody Seal Present? Yes	Seals Intact?	∐Yes	□No		Date/Initials	Person Examini	ing Contents:	18/23
ermometer:	Bubble Bags	None	Oth	er	. [	Biological Tis	ssue Frozen?	Con
Gun ID: Correction F	Type of Ice		Wet □Blue		lone			
oler Temp: — (*C): Add/Subtra	act (°C) 10~ / 1				p should be ab Samples out o			cooling process
OA Regulated Soil ( N/A, water sample) Did samples originate in a quarantine zone within (check maps)? Yes No	n the United States:	CA, NY, c	or SC		has begun amples originate			
Did samples originate in a quarantine zone within	n the United States:	CA, NY, c	or SC		amples originate ding Hawaii and	Puerto Rico)? [	_YesN	
Did samples originate in a quarantine zone within	n the United States:	CA, NY, c	or SC		amples originate ding Hawaii and		_YesN	
Did samples originate in a quarantine zone within (check maps)? Yes No			□N/A	inclu	amples originate ding Hawaii and	Puerto Rico)? [	_YesN	
Did samples originate in a quarantine zone within (check maps)? Yes No Chain of Custody Present?	Ere?	□No	□N/A	inclu	amples originate ding Hawaii and	Puerto Rico)? [	_YesN	
Did samples originate in a quarantine zone within (check maps)? Yes No Chain of Custody Present?  Samples Arrived within Hold Time?	Dies	□No □No	□n/a □n/a	inclu 1. 2.	amples originate ding Hawaii and	Puerto Rico)? [	_YesN	
Did samples originate in a quarantine zone within (check maps)? Yes No  Chain of Custody Present?  Samples Arrived within Hold Time?  Short Hold Time Analysis (<72 hr.)?	□Yes □Yes	□No □No □No	□N/A □N/A □N/A □N/A	inclu 1. 2. 3.	amples originate ding Hawaii and	Puerto Rico)? [	_YesN	
Did samples originate in a quarantine zone within (check maps)? Yes No  Chain of Custody Present?  Samples Arrived within Hold Time?  Short Hold Time Analysis (<72 hr.)?  Rush Turn Around Time Requested?	☐Yes☐Yes☐	No No	□N/A □N/A □N/A □N/A □N/A	inclu  1. 2. 3. 4.	amples originate ding Hawaii and	Puerto Rico)? [	_YesN	
Did samples originate in a quarantine zone within (check maps)? Yes No  Chain of Custody Present?  Samples Arrived within Hold Time?  Short Hold Time Analysis (<72 hr.)?  Rush Turn Around Time Requested?  Sufficient Volume?	□Yes □Yes	□No □No □No	□N/A □N/A □N/A □N/A □N/A	inclu 1. 2. 3.	amples originate ding Hawaii and	Puerto Rico)? [	_YesN	
Did samples originate in a quarantine zone within (check maps)? Yes No  Chain of Custody Present?  Samples Arrived within Hold Time?  Short Hold Time Analysis (<72 hr.)?  Rush Turn Around Time Requested?  Sufficient Volume?  Correct Containers Used?	☐Yes ☐Yes ☐Yes ☐Yes ☐Yes	□No □No □No □No	□N/A □N/A □N/A □N/A □N/A □N/A □N/A □N/A	inclu  1. 2. 3. 4.	amples originate ding Hawaii and	Puerto Rico)? [	_YesN	
Did samples originate in a quarantine zone within (check maps)? Yes No  Chain of Custody Present?  Samples Arrived within Hold Time?  Short Hold Time Analysis (<72 hr.)?  Rush Turn Around Time Requested?  Sufficient Volume?  Correct Containers Used?  -Pace Containers Used?  Containers Intact?  Dissolved analysis: Samples Field Filtered?	□ Yes □ Yes □ Yes □ Yes □ Tes □ Tes	No No No	□N/A □N/A □N/A □N/A □N/A □N/A □N/A □N/A	inclu  1. 2. 3. 4. 5.	amples originate ding Hawaii and	Puerto Rico)? [	_YesN	
Did samples originate in a quarantine zone within (check maps)? Yes No  Chain of Custody Present?  Samples Arrived within Hold Time?  Short Hold Time Analysis (<72 hr.)?  Rush Turn Around Time Requested?  Sufficient Volume?  Correct Containers Used?  -Pace Containers Used?  Containers Intact?	□Yes □Yes □Yes □Yes □Yes □Yes □Yes □Yes	No No No No	□N/A □N/A □N/A □N/A □N/A □N/A □N/A □N/A	inclu  1. 2. 3. 4. 5.	amples originate ding Hawaii and	Puerto Rico)? [	_YesN	
Did samples originate in a quarantine zone within (check maps)? Yes No  Chain of Custody Present?  Samples Arrived within Hold Time?  Short Hold Time Analysis (<72 hr.)?  Rush Turn Around Time Requested?  Sufficient Volume?  Correct Containers Used?  -Pace Containers Used?  Containers Intact?  Dissolved analysis: Samples Field Filtered?	□Yes □Yes □Yes □Yes □Yes □Yes □Yes □Yes	No No No No	□N/A □N/A □N/A □N/A □N/A □N/A □N/A □N/A	inclu  1. 2. 3. 4. 5. 6.	amples originate ding Hawaii and	Puerto Rico)? [	_YesN	
Did samples originate in a quarantine zone within (check maps)? Yes No  Chain of Custody Present?  Samples Arrived within Hold Time?  Short Hold Time Analysis (<72 hr.)?  Rush Turn Around Time Requested?  Sufficient Volume?  Correct Containers Used?  -Pace Containers Used?  Containers Intact?  Dissolved analysis: Samples Field Filtered?  Sample Labels Match COC?	□Yes □Yes □Yes □Yes □Yes □Yes □Yes □Yes	No No No No	□ N/A □ N/A □ N/A □ N/A □ N/A □ N/A □ N/A □ N/A □ N/A □ N/A □ N/A □ N/A	inclu  1. 2. 3. 4. 5. 6.	amples originate ding Hawaii and	Puerto Rico)? [	_YesN	
Did samples originate in a quarantine zone within (check maps)? Yes No  Chain of Custody Present?  Samples Arrived within Hold Time?  Short Hold Time Analysis (<72 hr.)?  Rush Turn Around Time Requested?  Sufficient Volume?  Correct Containers Used?  -Pace Containers Used?  Containers Intact?  Dissolved analysis: Samples Field Filtered?  Sample Labels Match COC?  -Includes Date/Time/ID/Analysis Matrix:	Yes   Yes	No No No No No	□N/A □N/A □N/A □N/A □N/A □N/A □N/A □N/A	inclu  1. 2. 3. 4. 5. 6.	amples originate ding Hawaii and	Puerto Rico)? [	_YesN	
Did samples originate in a quarantine zone within (check maps)? Yes No  Chain of Custody Present?  Samples Arrived within Hold Time?  Short Hold Time Analysis (<72 hr.)?  Rush Turn Around Time Requested?  Sufficient Volume?  Correct Containers Used?  -Pace Containers Used?  Containers Intact?  Dissolved analysis: Samples Field Filtered?  Sample Labels Match COC?  -Includes Date/Time/ID/Analysis Matrix:  Headspace in VOA Vials (>5-6mm)?	Yes   Yes	No	□N/A □N/A □N/A □N/A □N/A □N/A □N/A □N/A	inclu  1. 2. 3. 4. 5. 6. 7. 8. 9.	amples originate ding Hawaii and	Puerto Rico)? [	_YesN	
Did samples originate in a quarantine zone within (check maps)? Yes No  Chain of Custody Present?  Samples Arrived within Hold Time?  Short Hold Time Analysis (<72 hr.)?  Rush Turn Around Time Requested?  Sufficient Volume?  Correct Containers Used?  -Pace Containers Used?  Containers Intact?  Dissolved analysis: Samples Field Filtered?  Sample Labels Match COC?  -Includes Date/Time/ID/Analysis Matrix:  Headspace in VOA Vials (>5-6mm)?  Trip Blank Present?	□Yes □Yes □Yes □Yes □Yes □Yes □Yes □Yes	No No No No No	□N/A □N/A □N/A □N/A □N/A □N/A □N/A □N/A	inclu  1. 2. 3. 4. 5. 6. 7. 8. 9.	amples originate ding Hawaii and	Puerto Rico)? [ mments/Discr	_YesN	

\_\_\_\_\_ Date/Time:

Oualtray ID: 69614

Person contacted:

Project Manager SCURF Review:

Project Manager SRF Review:

Date: \_

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1-	<i>Pace</i>
	SEATT STATE

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

Project #

\*\*Bottom half of box is to list number of bottles

\*\*\*Check all unpreserved Nitrates for chlorine

tem#	BP4U-125 mL Plastic Unpreserved (N/A) (CI-)	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)	BP42-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (CI-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (CI-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (CI-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG35-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4CI (N/A)(CI-)	DG9H-40 ml. VOA HCÍ (N/A)	VG9T-40 mL VOA Na252O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 nst Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – fab)	SP2T-250 mL Sterile Plastic (N/A - lab)	MIDE	GP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AGOU-100 mL Amber Unpreserved (N/A) (CI-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mt. Amber Unpreserved vials (N/A)
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Sample ID	Type of Preservative	pH upon receipt	justment Log for Pres			
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ри проп тесегре	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.

	Beryllium (Lithium (L. 7040A: M. Alkalintty	App VII 60	Anions Su		12	1	10	0	8	7	6	8	8	3	2	9	ITEM#		- Carolina	D C C	Email To:		Address:	Required Company
	Aup IV: Meals out-tie: Artimony (Sb), Areanic (As), Baium (Ba), Beryllum (Ba), Cadmium (Cd), Chrombum (Cf), Cobalt (Co), Lead (Pb), Lithum (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Cs, Ns, K for this event. Alkalinity - report total, carbonata, and bicarbonata	App III 6020B; Zn, Ag, Ni, V	Anions Sulte 300.0 (Cl. F. Sulfate)	ADDITIONAL COMMENTS	YAT-YGWA-14S	YAT-YGWA-30I	YAT-YGWA-21I	YAT-YGWA-20S	YAT-YGWA-18I	YAT-YGWA-18S	YAT-YGWA-17S	YAT-YGWA-5D	YAT-YGWA-5I	YAT-YGWA-4I	YAT-GWA-2	YAT-YGWA-47	SAMPLE ID  Character per box.  (A-Z, 0-9/-, -)  Sample ids must be unique  (about the same than the same that the same than the same than the same than the same than the	Na Lober	redorson one care. VAD 1771	4/0.020.01/6  Fax	laucoker@southernco.com	ļ	Atlanta, GA	Ι¥
	d (Pb). War	1/2	Class	RELING	WG	wg	wg	wg	wg	WG	wg	ЭМ	ым	wg	wg	ме	Table 2 See See See See See See See See See	cope	Project Number:	Project Name:	101		Copy To: Arr	Į į
SAM	William	5	compin	RELINGUISHED BY / AFFILIATION	6	6	G	G	7	6 2/7 1348	6 20/7/23 1116	G	6	G	۵	6	SAMPLE TYPE (G=GRAB C			Plant Yates Pooled Upgradient		YAT-CCR-ASSMT-2023S1	Arradia Contacts	nformation:
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: SIGNATURE of SAMPLER:	PAGE	LCA	2. /Arcadis	LIATION			1		31 -	- 81	6	-	-	1	1		TIME DATE	COLLECTED		oled Upgra		1		
PRINT Name of SAMPLER: SIGNATURE of SAMPLER:	44/13	2/1/23	18/2	DATE		1	1	ı	1	;	ı	,	1	1	1	-	TIME			dient				
			C0800 827	3	6	6	6	6	6	6	6	6	8	+	6	-	SAMPLE TEMP AT COLLECTION  # OF CONTAINERS	~	Pace	Pace	Pace	Add	Atter	invo
ENKL.	1240	0500 1	8	2000L	3 3	3 3	3	3 3	3	3	3	3	1		3	3 3	Unpreserved H2SO4 HNO3		Pace Profile #:	Pace Project Manager:	Pace Quote:	Address:	Attention: S	Invoice information:
Ware		Zian	2/2	ACC												1	HCI NeOH Na2S2O3	Preservatives	6	1			Southern Co.	stion:
Dr A.		M'II	M	ACCEPTED BY								1				1	Methanoi Other	5		NICOIR DO				
Cond		11:0-1	-	BY / AFFILIATION	×	$\rightarrow$	_	-+	-	-	+	_	+	-	-	-	Analyzes Test  App III/TV Metals + Ca, Na, K Ci, F, SO4	Y/N		2010 C				
DATE Signed: 2/		13.61	1.05	MOM	×	×	×	×	×	×	×	×	×	×	×	×	TDS (2540C) RAD 9315/9320		a wa	25				
2/8/13		-	5 2/2/2	DATE	×	×	×	×	×	×	×	×	×	+	×	-	Alkalinity (SM2320B) App 1 / II (gpysum only)	Anadymia	П			I		
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Received on Ice (Y/N) Custody Sealed Cooler (Y/N)			-	SAMPLE COMDITIONS	P. F.	Į.	pH.	6.00	3	75.	A PARTIES	pri.	pri.	pri.	2 7	_	Residual Chlorine (Y/N)		Georgia		DA VIDERDA AD			e:
Samples Intact (Y/N)								3	5		0										Manager Leave	-		<u>ر</u>

			Beryllium Lithium ( 7040A: N	App VII 6	App III M	Anions S	· · · · · · · · · · · · · · · · · · ·	12	11	10	9	8	7	6	GI	۵	50	2	1	ITEM#	Reques	Phone:	Empl	Address:	Compa	Required (
			Beryllium (Be), Cadmium (Cd), Chronium (Cr), Cobat (Co), Lead (Pb), Libhurn (Li), Molybdenum (Mo), Solenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate	App VII 6020B: Zn, Ag, Ni, V	App III Metals: Boron 6020B. Ca 6010D:	Anions Sulte 300.0 (Ct. F. Sulfate)	ADDITIONAL COMMENTS						YAT-YGWA-3D	YAT-YGWA-3I	YAT-YGWA-21	YAT-YGWA-1D	YAT-YGWA-1I	YAT-YGWA-40	YAT-YGWA-39	AMPLE ID Character per box. (A-Z, 0-91, -) te ids must be unique	ed Du	A70 620 6176 Est		s: Allanta, GA		Section A Required Citent Information:
				+	13	7														MAYRO CODE DOWNING WHIT DOW Wisher WAY Prinded S. DOS DO OL DO AR AR Cream O7 France TS	Project Name:	Purchase Order #:	Task No:	Copy To:	Report to SCS Costant	Section B
			than the	1		2	RELINCUISHED BY / AFFILIATION	$\vdash$			H	-	WG	WG	WG	WG	WG	WG	WG	MATRIX CODE (see valid codes to left)	me:	order #	YAT-CCR-ASSMT-2023S1	1	S Color	Pale
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PLER:	PLEK	NATUR	123		1	8/23	DATE	П												SAMPLE TEMP AT COLLECTION						
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8	(Arc		140	0800	18	0800	TIME						а	ω	ω	3	3	3	ı	# OF CONTAINERS Unpreserved H2SO4	Pace Project Manager	Pace Quote:	Address:	Company Name:	invoice information:	Section C
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Pace	DC#_Title: ENV-FRIV	I-HUN1-0083 v	02_Sample	Conditi	on Upon Receipt	A CONTRACTOR OF THE CONTRACTOR
· AMOTER SECON	Effective Date: 11/14/20	)22		***************************************		MANA Anguaga
Asheville Sample Condi	eiving samples:  Eden Greenwood		e 🔲 Ralei	gh[] M	° 1.104 - 00	CE4000
Upon Receipt Courier: Commercial	- GA	PS USPS		Project #	WO#: 92	·
Custody Seal Pres	sent? [Yes [No	Seals Intact?	]Yes 🔲 N	0		250
Packing Material; Thermometer:  IR Gun Cooler Temp:		Type of ice:		_	∐Yes ∏N None	Tissue Frozen? o 🗐 🗸 🗸
Cooler Temp Corre USDA Regulated S Did samples orig (check maps)?	ected (°C):  oil (	1.8	A, NY, or SC	Did:	samples originate from a forei ding Hawaii and Puerto Rico)i	a. Samples on ice, cooling process gn source (internationally,
Chain of Custo	dy Present?	Ðre? [	]No □N/A		Comments/Dis	сгералсу:
Samples Arrive	ed within Hold Time?		JNO DN/A	1.		
Short Hold Tin	ne Analysis (<72 hr.)?		****	2.		
	und Time Requested?			3.		
Sufficient Volu			TNO DN/A	4.		
Correct Contain			]No []N/A	5,		
-Pace Conta			JNO DN/A	6.		
Containers inta	ct?		NO NA	<del>  </del>		
Dissolved analy	rsis: Samples Field Filtered?			7.		
Sample Labels I	Match COC?		No	9.		
-Includes Dat	te/Time/ID/Analysis Matrix	W	, Gii)A	<b>J</b> .		
1	OA Vials (>5-6mm)?		No DNA	10.	·	
		□Yes □	No DN/A	11.		
COMMENTS/SAMPLE D	ody Seals Present?		NO PIN/A			
	· · · · · · · · · · · · · · · · · · ·				Field Data Ro	equired? Yes No
CUENT NOTIFICATION/R	ESOLUTION			ot ID of spli	t containers:	
de mais annue proprieta de la constante de la			***************************************	- All Parkers	The second state of the second state of the second state of the second state of the second state of the second	The second secon
Person contacted:			Date/Time:	X.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C	AMERICAN STATE OF THE STATE OF	
Project Manager (	SCURF Review:		XXXXXXXX		Date:	
Project Manager S	FRF Review:	ere er v. andresse kreger om søkkelig <u>te sæmme av anskallskammen grundstate</u> s.		<del>/ "V"</del>	Date:	



**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, Collform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

Project # WUH:

**5001005** 

M: BV

Due Date: 02/22/23

CLIENT: GA-GA Power

\*\*Bottom half of box is to list number of bottles

\*\*\*Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (CI-)	8P3U-250 ml. Plastic Unpreserved (N/A)	8P2U-500 mt Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	<b>BP45-125</b> mi. Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	8P4Z-125 mL Plastic ZN Acetate & NaOH (>9)	8P48-125 mL Plastic NaOH (pH > 12) (CI-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (CI-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (CI-)	AG15-1 fiter Amber H2504 (pH < 2)	AG35-250 mL Amber H25O4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCI (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VQA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mt. Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A lab)	SPZT-250 mL Sterile Plassk (N/A - lab)	200	BP3R-250 mt Plastic (NH2)2504 (9.3-9.7)	AGOL-100 mL Amber Unpreserved (N/A) (CI-)	VSGU-20 mt. Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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Sample ID	Type of Preservative	pH upon receipt	justment Log for Pres  Date preservation adjusted	Time preservation	Amount of Preservative	Lot #
N				adjusted	added	
			· · · · · · · · · · · · · · · · · · ·			***************************************
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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	DC#_Title: ENV-FRM	I-HUN1-0083	v02_S	iample Co	onditio	n Upon F	Receipt		
ANDALIEN SHACES	Effective Date: 11/14/20	)22		***************************************					
Asheville Sample Cond Upon Receip	- G-A	Huntersvi	ilie 🗌	Raleigh[	Med	-	: 926	55138	
Courier:	Fed Ex C	JPS USPS	r	Clie	nt .	PM: BV CLIENT	: GA-GA F	Due Date: Ower	02/22/23
Custody Seal Pre	esent? Yes 100	Seals Intact?	□Yes	□No		Date/Initial	s Person Exami	ning Contents:	2/8/23
Packing Material Thermometer:  IR Gu  Cooler Temp:  Cooler Temp Corn USDA Regulated: Did samples or	in ID: 214 Correction I	4.8		Wet ∐Blu	e 🔲 Ni Temp	should be a Samples out has begun	Yes No	. Samples on ice,	
(check maps)?	Yes No	The United States	: CA, NY, (	or SC	Did sa includ	ing Hawaii an	d Puerto Rico)?		
Chain of Cust	tody Present?	<b>टा</b> ल्ड	□No	□N/A	1.	C	omments/Disc	герапсу:	
Samples Arriv	ved within Hold Time?	Dives :	 □N0		2.	***************************************			
Short Hold Ti	ime Analysis (<72 hr.)?	□Yes			3.				***************************************
1	ound Time Requested?		<b>2</b> %0		<i>3.</i> 4.	***************************************			
Sufficient Vol					****				
Correct Conta	······································				5.	***************************************			***************************************
	ainers Used?	☐Yes ☐₩s	□No □No	□n/a □n/a	6.				
Containers Int	tact?	Dws	□No		7.			***	
Dissolved ana	lysis: Samples Field Filtered?	□Yes	□No	and the same of th	8.				
Sample Labels	s Match COC?	Lives	□No		9.				
-includes D	ate/Time/IO/Analysis Matrix:	_ W	œ		····				
	VOA Vials (>5-6mm)?	□Yes	□N≎	The state of the s	10.				
Trip Blank Pre		Yes	□No	ZN/A	11.		***************************************		
***************************************	tody Seals Present?	☐Yes	□No	ZN/A					
COMMENTS/SAMPLE	DISCREPANCY	20 CMANN proposition (C. College Proposition C			4,		Field Data Re	quired? Yes	□No
LIENT NOTIFICATION,	/RESOLUTION			Lot	ID of split	containers:			
Person contacted:				Date/Time;	270 EARNA - 48	ett til en en en en en en en en en en en en en	entanga contante entendente entenden entenden entenden entenden entenden entenden entenden entenden entenden e	The state of the s	
Project Manage	r SCURF Review:					Production of the control of the con			
Project Manage	00000000000000000000000000000000000000	<u> </u>	Appropriate Assessment Newson (1997)	Milable-Longs sprage and trace of control-benefit and	CORREC	Date:			



Effective Date: 11/14/2022

Theck mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples. ceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

Project#

WO#: 92651382

PM: BV

Due Date: 02/22/23

CLIENT: GA-GA Power

'Bottom half of box is to list number of bottles

\*\*Check all unpreserved Nitrates for chlorine

MIDNI	8P4U-125 mL Plastic Unpreserved (N/A) (CI-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1L-1 liter Plastic Unpreserved (N/A)	8P45-125 ml. Plastic H2SO4 (pH < 2) (CI-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	6P48-125 mt Plastic NaOH (pH > 12) (CI-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCI (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (CI-)	AG15-1 liter Amber H2SO4 (pH < 2)	AG38-250 mL Amber H2504 (pH < 2)	OG94-40 ml Amber NH4Cl (N/A)(Cl-)	DG9H-40 mt VOA HCI (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 nit VOA Unpreserved (N/A)	DG9V-40 mt VOA H3PO4 (N/A)	RP7U-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)	SP27-250 mL Stenle Pastic (N/A (ab)	100 N	8P3R-250 ml Plastic (NH2)2SO4 (9.3-9.7)	AGON-100 mL Amber Unpreserved (N/A) (CI-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mt Amber Unpreserved viais (N/A)
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4		yn Au	ljustment Log for Pres	erved samples		
Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot#
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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. Dut of hold, incorrect preservative, out of temp, incorrect containers.

Pace	DC#_Title: ENV-F	FEBRUARY	VU2_\$	ampie (	onaition	Upon Receipt
	Effective Date: 11/14	/2022				
boratory rece	eiving samples:  Eden Greenwo		. F1			
Sample Condit Upon Receipt	ion Client Name;	od Huntersvi		Raleigh		Hanicsville Atlanta Kernersville WO#: 92651382
ourier: Commercial	Fed Ex	UPS USPS	:		ient	PM: BV Due Date: 02/22/ CLIENT: GR-GA Power
istody Seal Pres	ent? □Yes □No	Seals Intact?	∐Yes	□No		Date/Initials Person Examining Contents:
acking Material: nermometer:		Bubble Bags	None	e 🗌 o	ther	Biological Tissue Frozen?  ☐Yes ☐No ☐N/A
☐AR Gun	Correct	Type of ice	: E	Wet □B		
oler Temp:	ected (°C):	ubtract (°C) 10~/7		-	Temp	should be above freezing to 6°C  Samples out of temp criteria. Samples on ice, cooling pro has begun
Did samples orig (check maps)?	oil (	within the United States	: CA, NY,	or SC	Did sa includ	mples originate from a foreign source (internationally, ing Hawaii and Puerto Rico)?   Yes   No
Chair of Curt						Comments/Discrepancy:
Chain of Custo		<u>Erre?</u>	No	□N/A	1.	
	ed within Hold Time?			□N/A	2.	
1	ne Analysis (<72 hr.)?		ANG	□n/a	3.	
	ound Time Requested?	Yes	<b>Z</b> No	□N/A	4.	
Sufficient Volu		<u> </u>	□No	N/A	5.	
Correct Contai	iners Used? iiners Used?		□No	□n/a	6.	
Containers Int		<u> </u>	□No	□n/A		
	ysis: Samples Field Filtered?	<u>Dass</u>	□No		7.	
Sample Labels			No	N/A □n/a	8.	373
-Includes Da	nte/Time/ID/Analysis Matr	is W	_			
Headspace in V	/OA Vials (>5-6mm)?	□Yes	□No	NIA	10.	
Trip Blank Pres		☐Yes	□No	ZN/A	11.	
Trip Blank Cust	ody Seals Present?	□Yeş	□No	ZNA		
IMENTS/SAMPLE	DISCRÉPANCY		·		<u>.</u>	Field Data Required? Yes No
EMAN CONTRACTOR OF THE CONTRAC						
T NOTIFICATION/	RESOLUTION			<u> </u>	ot ID of spilit	Containers:
son contacted:	-			Date/Time:	ome over the state of the state	4993 Mentacan consiste Assessment (1997)

Project Manager SCURF Review:

Project Manager SRF Review:

Date:



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

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) (CI-)	BP3U-250 mL Plastic Unpreserved (N/A)	8P2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP45-125 mt Plastic H25O4 (pH < 2) (CI-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	8P48-125 ml. Plastic NaOH (pH > 12) (G-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (CI-)	AG1H-1 fiter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (CI-)	AG15-1 liter Amber H2504 (pH < 2)	AG35-250 mL Amber H2504 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl₃)	DG9R-40 mL VOA HCI (N/A)	VG9T-40 mL VOA Na252O3 (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)	6P N	8P3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AGOU-100 mL Amber Unpreserved (N/A) (CI-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mt. Amber Unpreserved vials (N/A)
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Sample ID	7	huve	ljustment Log for Pres	erved Samples		
sample 10	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.

1	Pace
ŝ.	MONTH of Printers

#### DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt Effective Date: 11/14/2022 iving samples: Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta

shoratory rocalizing complex.					
aboratory receiving samples:  Asheville Eden Greenwood	Huntersville 🗌	D-1-1-L	AA-15 31 [******]	3.3	
	nuntersville [_]	Raleigh	Mechanics ville	Atlanta Kerr	ersville
Sample Condition Client Name: Upon Receipt	Power	Proje	ct #:	e per in American	
Courier: Fed Ex UPS	USPS	Client		- No. of the Miles	
Commercial Pace	Other:			4	
Custody Seal Present? Yes 3NO Sea	Is Intact?	□No			1/2/12
			Date/Initials Person	n Examining Contents:	70(-)
Packing Material: Bubble Wrap B	ubble Bags None	Other	Biolo	ogical Tissue Frozen?	cores
Thermometer:			∏Yes	□No □N/A	
TR Gun ID:	Type of Ice:	Wet □Blue	None	3) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Contex Towns				, and may come and a second of the second of	
Cooler Temp: Add/Subtract (	CIDA	•	Temp should be above f	reezing to 6°C o criteria. Samples on ice,	codling process
Cooler Temp Corrected (°C):	<u>, 8</u>		has begun	) cineria. Janipies Oil ice,	coomig process
USDA Regulated Soil ( N/A, water sample)					-
Did samples originate in a quarantine zone within th (check maps)? Yes No	ie United States: CA, NY, (	or SC.	Did samples originate from including Hawaii and Puert		*·
	£ £			nts/Discrepancy:	
Chain of Custody Present?	Bres □no	□N/A 1.			
Samples Arrived within Hold Time?	DAS DNO	□N/A 2.			1
Short Hold Time Analysis (<72 hr.)?	□Yes 🛂m7	□N/A 3.			
Rush Turn Around Time Requested?	□Yes ②No	□N/A 4.		w A A A A A A A A A A A A A A A A A A A	
Sufficient Volume?	Ø1es □No	□N/A 5.		The state of the s	
Correct Containers Used?	⊡res □no	□N/A 6.			
-Pace Containers Used?	□ves □no	□N/A		1	
Containers Intact?	□ves □No	□N/A 7.			
Dissolved analysis: Samples Field Filtered?	□Yes_ □No	DN/A 8.			
Sample Labels Match COC?	☐Yes ☐No	□N/A 9.		· Principal	
-Includes Date/Time/ID/Analysis Matrix:	W			s energes-photosom	
Headspace in VOA Vials (>5-6mm)?	□Yes □No	N/40 10			
Trip Blank Present?	□Yes □No	ZN/A 11			
Trip Blank Custody Seals Present?	Elvas Elvas				
COMMENTS/SAMPLE DISCREPANCY	Yes No	ZN/A	۶. Fiel	d Data Required?	≥s □No
		Lot ID	of split containers:	96 (6)	-
LIENT NOTIFICATION/RESOLUTION				D 000	
			·		
·					
Person contacted:		Date/Time:			· ·
Project Manager SCURF Review:			Date:	man /** PERIONA VAPICA A	
- Acceptangly is	- Additional Control of the Control	**************************************	-		_
Project Manager SRF Review:		**************************************	Date:		



<b>Effective</b>	Date:	11/	14/2	022

\*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

tent	BP4L-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)	8P45-125 mL Plastic H2SO4 (pH < 2) (CI-)	BP3N-250 mt plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP48-125 mt Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1M-1 liter Amber HCl (pH < 2)	AG3U-250 mt. Amber Unpreserved (N/A) (CI-)	AG15-1 liter Amber H25O4 (pH < 2)	AG35-250 mL Amber H2504 (pH < 2)	DG94-40 mL Amber NH4CI (N/A)(Ci-)	DG9H-40 ml, VOA HCİ (N/A)	V69T-40 mL VOA N3252O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mi. 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 Sterilg Plastic (N/A – lab)	MINE	kp3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (CI-)	VSGU-20 mt. Scintiliation 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 #						
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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	DC#_Title: ENV-FR	N-HUN1-0083	v02_5	Sample	Con	dition Upon Receipt
। अधिराद्धिः स्वराहरस	Effective Date: 11/14/2	022				
.aboratory rece	iving samples: Eden Greenwood	Huntersv	ille 🗀	Raleig	<b>.</b>	Mer'
Sample Condit Upon Receipt	ion Client Name:	Parad		water		<sub>ест #:</sub> <u>WO#: 92651382</u>
Courier:	Fed Ex Pace	UPS USPS		☐c	lient	PM: BV Due Date: 02/22/23 CLIENT: GA-GA Power
Custody Seal Prese	ent? Yes No	Seals Intact?	Yes	□No		Date/Initials Person Examining Contents 2/9/13
Packing Material: Thermometer:  [] IR Gun	0.44	Bubble Bags	Non	e 🔲 o	ther	Biological Tissue Frozen?  Yes No N/A
Cooler Temp:	2 Correction Add/Subtra	Type of ice Factor: act (°C)	።	Wet □	llue	□None
Cooler Temp Corre	cted (°C):	2.2	-/			Temp should be above freezing to 6°C  Samples out of temp criteria. Samples on ice, cooling process has begun
Oid samples origi	inate in a quarantine zone withi	in the United States:	: CA, NY,	or SC		Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No
Chain of Custoc	dy Present?	Elves	□No	□N/A	1.	Comments/Discrepancy:
Samples Arrive	d within Hold Time?	∠2Yes	□No	□N/A	2.	
Short Hold Tim	e Analysis (<72 hr.)?	☐Yes	- No			
	and Time Requested?		مولات		3.	
Sufficient Volum				□N/A	4.	
Correct Contain		<u> Zres </u>	□No	□N/A	5.	
-Pace Contain		,⊟ <del>Yes</del> □ <del>Yes</del>	□No □No	□n/a □n/a	6.	
Containers Intac	***************************************	Dies	No	□N/A	7.	
Dissolved analys	sis: Samples Field Filtered?	□Yes	No	□N/A	8.	
Sample Labels N		Etres	□No	□n/a	9.	
-includes Dat	e/Time/ID/Analysis Matrix:	W	,	<u></u>	-	
	DA Vials (>5-6mm)?	☐Yes	□No	M/A	10.	
Trip Blank Prese	nt?	□Yes	No	ZM/A	11.	
	dy Seals Present?		□No	□n/a		
OMMENTS/SAMPLE DI	ISCREPANCY		,			Field Data Required? Yes No
JENT NOTIFICATION/RE	COLUMN			La	t ID c	of split containers;
		Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annual Annua				·
erson contacted:			ව	ate/Time:		
Project Manager S	CURF Review:			Modern constant and a second		Date:
Project Manager S	RF Review:	AND RESIDENCE TO A SECURITION OF A STORY CONTROL OF THE PROPERTY OF THE PROPER				Date:



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

Project #

WO#: 92651382

PM: BV

Due Date: 02/22/23

CLIENT: GA-GA Power

\*\*Bottom half of box is to list number of bottles

\*\*\*Check all unpreserved Nitrates for chlorine

Lem#	BP4U-125 ml Plastic Unpreserved (N/A) (CL-)	<del> </del>	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP45-125 mL Plastic H2SO4 (pH < 2) (CI-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP42-125 mL Plastic ZN Acetate & NaOH (>9)	BP48-125 ml. Plastic NaOH (pH > 12) (CL)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (CI-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG15-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2504 (pH < 2)	D694-40 mL Amber NH4Cl (N/A)(CI-)	DG9H-40 mL VDA HCI (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)	BIIN	BP3R-250 mL Plastic (NH2)2504 (9.3-9.7)	AGOU-100 mL Amber Unpreserved (N/A) (CI-)	VSGU-20 mL Scintiflation vials (N/A)	DG9U-40 ml. Amber Unpreserved vials (N/A)
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9				$\dashv$	1	7	1	1		+	$\uparrow$	$\dashv$	1	$\uparrow$	1			$\dashv$	_	_	<del> </del>	_	$\dashv$	+	+	$\dashv$		_
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11				+	1	1	1	7	$\dashv$	-	1	_		1	+		$\frac{1}{1}$	-			_	-	$\downarrow$	+	4		_	-
12					1	$\uparrow$	1	$\uparrow$	$\dashv$	$\dashv$	$\uparrow$	+	X	+	+	-	-	+	+	$\perp$		_	$\perp$	+	4	_	_	_
					7	7	7	7			1			7	7									7	7			

		рН Ас	ljustment Log for Pres	erved Samples		***************************************
Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot#
						<del></del>

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.

1	Pace
	amin Arrord Company

Pace	DOF_(tile: Live-1 kin-	TION I POUR	JZGa	mapie oc	HUR	on opon Receipt
i aratesa garera	Effective Date: 11/14/20	22				
Asheville Sample Condit Upon Receipt  Courier: Commercial		Huntersville	e []	Raleigh[ Pi	roject # _	lechanicsville Atlanta Kernersville Kernersville PM: 92651382  PM: BV Due Date: 02/22/23  CLIENT: GR-GR Power
Custody Seal Pres		Seals Intact?	]Yes	∏No		Date/Initials Person Examining Contents 2/9/23
Packing Material: Thermometer: I'll R Gur	7 116	Type of Ice:	None	Oth		Biological Tissue Frozen?  Ves No N/A  None
	rected (°C):  Soil ( \sum N/A, water sample)	2°2	£	-		emp should be above freezing to 6°C  Samples out of temp criteria. Samples on ice, cooling process has begun
Did samples or (check maps)?	iginate in a quarantine zone withi ☐Yes ☐No	n the United States:	CA, NY, c	or SC		d samples originate from a foreign source (internationally, cluding Hawaii and Puerto Rico)?
Chair of Cure	tody Present?	Ð×€	□No	□n/a	1.	Comments/ Discrepancy:
		Ø 9es			2.	
;	ved within Hold Time?		No	□N/A		
	ime Analysis (<72 hr.)?		- Ne		3.	A CONTRACTOR OF THE CONTRACTOR
Rush Turn Ai	round Time Requested?	□Yes	- New	□n/a	4.	
Sufficient Vo	lume?	el res .	No	□N/A	5.	
1	ainers Used?	₽ <sup>Tes</sup> _	□No	□n/a	6.	
·	tainers Used?	7465	No	□N/A		
Containers Ir			No	□N/A	7.	
······································	alysis; Samples Field Filtered?		□No	□N/A	8.	
	ls Match COC?  Date/Time/IO/Analysis Matrix:	W	OND.	□N/A	9.	
Headspace in	n VOA Vials (>5-6mm)?	□Yes	No	□N/A	10.	
Trip Blank Pr	esent?	□Yes	□No	MA	11.	
Trip Blank Cu	ustody Seals Present? LE DISCREPANCY	□Yes	□N≎	□N/A		Field Data Required? Yes No
LIENT NOTIFICATION	n/resolution			1.	ot ID of	split containers:
Person contacted				Date/Time:		
Project Mana	ger SCURF Review:				-	Date:
	CDE Bordown					Date:



**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

Project #

WO#: 92651382

PM: By

Due Date: 02/22/23

CLIENT: GA-GA Power

\*\*Bottom half of box is to list number of bottles

\*\*\*Check all unpreserved Nitrates for chlorine

(fem#	BP4U-125 mL Plastic Unpreserved (N/A) (CI-)	BP3U-250 ml. Plastic Unpreserved (N/A)	8P2U-500 mL Plastic Unpreserved (N/A)	8P1U-1 liter Plastic Unpreserved (N/A)	BP45-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 ml, plastic HNO3 (pH < 2)	BP42-125 mL Plastic ZN Acetate & NaOH (>9)	BP48-125 mt. Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (CJ-)	<b>AG1H-</b> 1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl.)	AG15-1 liter Amber H25O4 (pH < 2)	AG35-25() ml. Amber H25O4 (pH < 2)	DG94-40 ml. Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCI (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 rnt VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-S0 in L 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 Sterily Plastic (N/A - lab)	BNW	8P3R-250 mt Plastic (NH2)Z5O4 (9.3-9.7)	AGOU-100 mL Amber Unpreserved (N/A) (CI-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 ml. Amber Unpreserved vials (N/A)
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		pH Ac	ljustment Log for Pres	erved Samples		· · · · · · · · · · · · · · · · · · ·
Sample 10	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot#
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Note: Whenever there is a discrepancy affecting North Carolina compilance 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	DC#_Title	: ENV-FR	M-HUN1-0083	v02_S	ample C	onditio	n Upon Receipt
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La	boratory rece	iving sample	**************************************	there were destributed as the section of the sectio		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<del> </del>	
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c	ourier:	Fed	0/	Power				PM: BV Due Date: 02/22/23
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								Date/Initials Person Examining Contents 2/9/13
Pa	cking Material:	Bubble	Wran	Bubble Bags	None		L	CAR
	ermometer	0	TT COLD	Tagonic page			her	Biological Tissue Frozen?  ☐Yes ☐No ☐N/A
	☐ IR Gun	10: 214		-				
		3-1-	Correction	Type of Ico a Factor:	: נו	Wet □Bl	ue []N	one .
Co	oler Temp:	ox cl	_ Add/Subi		f		Temo	should be above freezing to 6°C
Co	oler Temp Corre	acted (°C):		7.5	7	_	Ċ	Samples out of temp criteria. Samples on ice, cooling process
	DA Regulated S		er sample)	QC.Z				has begun
	Did samples orig	inate in a quaran	er sample) Itine zone wit	hin the United States	CA. NY	or SC	Öğri en	imples originate from a foreign source (internationally,
	(check maps)?	Yes No	·			J., J.C	includ	ling Hawaii and Puerto Rico)? Yes No
								Comments/Discrepancy:
	Chain of Custo	dy Present?		- Dires	□No	□N/A	1.	
		ed within Hold Tir		ØYes	□No	□n/A	2.	
	Short Hold Tin	ne Analysis (<72 i	hr.)?	□Yes	سوبد[_	N/A	3.	
	Rush Turn Aro	und Time Reque	sted?	□Yes		_ □N/A	4.	
	Sufficient Volu	me?		Pres"	□N□	□N/A	<b>\$</b> .	
	Correct Contain	ners Used?		Æ]Yēs	□No	□N/A	6.	
	-Pace Conta	iners Used?		Yes ·	No	□N/A	U.	and the second of the second o
	Containers Inte	ict?		Dxes	□N¢	□n/a	7.	
	Dissolved analy	/sis: Samples Fiel	d Filtered?	□Yes	□No	□ N/A	8.	
	Sample Labels	Match COC?		Election 1	□No	□N/A	9.	
				/	-			
	-Includes Da	te/Time/ID/Anai	ysis Matrix:	$\mathcal{M}$				
	Headsnare in V	OA Vials (>5-6mi	m12		<b>п.</b> .			
	Trip Blank Pres		1115		□No □No	INVA IZNVA	10. 11.	
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Project Manager SCURF Review:

Project Manager SRF Review:

Date:

,	Roan
1	race
	MANAGER STREAMS

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

Project #

\*\*Bottom half of box is to list number of bottles

\*\*\*Check all unpreserved Nitrates for chlorine

1	BP4U-125 mL Piastic 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)	8P45-125 mL Plastic H2SO4 (pH < 2) (CI.)	8P3N-250 mt. plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP48-125 mL Plastic NaOH (pH > 12) (Ci-)	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) (Ct-)	AG15-1 liter Amber H25O4 (pH < 2)	AG35-250 mL Amber H2504 (pH < 2)	DG94-40 ml. Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCI (N/A)	VG9T-40 mt VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PD4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mt, Sterile Plastic (N/A – lab)	SP2T-250 mt Sterile Plastic (N/A – lab)	SKIN	BP3R-250 mL Plastic (NH2)2504 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (CI-)	VSGU-20 mt Scintillation vials (N/A)	DG9tJ-40 ml. Amber Unpreserved vials (N/A)
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Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot#
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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.

	App IV: N Beryllum Lithium (I 7040A: M Alkalinity	App III M	Anions S		12	11	10	9	8	7	0	ca .	•				ITEM#		Medibase	Phone:	Email To:	Addrass:	Company:	Required
	App Nr. Matalis 65/208: Anthrony (Sb), Avsenic (As), Barium (Ba), Beryllum (Be), Cadmium (Cd), Citromium (Cr), Coball (Co), Lead (Pb), Lithum (Ll), Mohybdenum (Mo), Sejenium (Se), Lithum (Ll), Mohybdenum (Mo), Sejenium (Se), 7040A. Marcury (Hg). Also add Ca, Ifa, K (be this event. Alkalinity - report total, parbonate, and bicartionate	App III Melais: Beron 6020B, Ca 6010D; App III 6020B; Zn, Ag, Ni, V	Anions Suite 300.0 (Ci, F, Sulfate)	ADDITIONAL CONTINUES TO						YAT-YGWA-3D	YAT-YGWA-3I	YAT-YGWA-2I	YAT-YGWA-1D	YAT-YGWA-1I		YAT-YGWA-39	SAMPLE ID  Character per box.  (A-Z, 0-91, -)  Sample (of must be unique  Sample (of must be unique  Character per box.  (A-Z, 0-31, -)  Sample (of must be unique  Tiuse		Requested the base. Show A sock 1/AT	470.620.6176 Fax	1	: Atlanta, GA	TY GA POWER	₩
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	Lithium (Li), Molybourum (Not), Calentam (Not), Collect (Not), Calentam (Not), Calentam (Se)  7040A: Marcury (Hg). Also add Ca, Ne, K for this event.  Alkelinthy - report total, carbonets, and bicarbonets	App N: Metals 6020B; Antimony (Sb.), Arsenic (As), Berium (Be), Berusium (RA) Calmium (CA) Chromium (CA) Chromium (CA)	App III Melais: Boron 6020B, Ca 6010D; App VII 6020B; Zn, Ag, Ni, V	Anions Suite 300.0 (Cl. F, Sulfate)	RINBHROD TYNGLIGEN	YAT-YGWA-14S	YAT-YGWA-30I	YAT-YGWA-21I	YAT-YGWA-20S	YAT-YGWA-18I	YAT-YGWA-18S	YAT-YGWA-17S	YAT-YGWA-5D	YAT-YGWA-5I	YAT-YGWA-4I	YAT-GWA-2	YAT-YGWA-47	SAMPLE ID  One Character per box.  (A-Z, 0-91,-)  Sample ids must be unique  Tenor  Te	W.S.W.	Requested Due Date: Strandprid アネー		x leucoker@southernco.com	Aliania, GA	y: GA Power	Ĭ
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		Lithiem (Li), Molydderium (Mo), Selerium (Se) 7040A: Mercury (Hg), Miso add Ca, Na, K for this event, Alkalinity - report totel, carbonato, and bicarbonate	App IV: Metals 6020B; Antimony (Sb), Avsenic (As), Berlum (Be), Benyilium (Be), Cadmium (Cd), Chromium (Cr), Cobatt (Co), Lead (Pb),	App III Metals: Boron 6020B, Ca 6010D; App III 6020B; Zn, Ag, Ni, V	(CI, F, Sulfate)	VONLIGHTO TANDULINO	YAT-YGWA-14S	YAT-YGWA-30I	YAT-YGWA-21I	YAT-YGWA-20S	YAT-YGWA-18I	YAT-YGWA-18S	YAT-YGWA-17S	YAT-YGWA-5D	YAT-YGWA-5I	YAT-YGWA-4I	YAT-GWA-2	YAT-YGWA-47	SAMPLE ID  One Character per box. (A-Z, 1-9 1 ; .)  Semple its must be unique		TAT CER, when	470.620.6176  Fax	aucoker@southernco.com	Allanta, GA	A Power	Information:
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	App Nr. Meiols 60208: Antimony (Sb.). Arseno (As), Baitum (Ba), Beryllium (Be), Cadmium (Cd), Citrionium (Cr), Cobalt (Co), Lead (Pb), Lithium (Lf), Molystenum (Ms), Selenium (Se), 2004. Lithium (Lf), Molystenum (Ms), Selenium (Se), 7040A. Meccury (Hg). Also add Ca, Ma, K for this event.  Alkalinity - report lotal, certbonale, and bicarbonale	App (II Matels: Boron 6020B, Ca 6019D; App VII 6020B; Zn. Ag. NI, V	Anions Suite 300.0 (C), F. Sulfate)	Assert Ostal Cooking (BATE)	120				7 YAT-YGWA-3D	• YAT-YGWA-3I	Mo YAT-YGWA-21	▼ YAT-YGWA-JD	3 YAT-YGWA-11	2 YAT-YGWA-40	TAT-YGWA-39	SAMPLE ID  SAMPLE ID  Selsoad  One Character per box.  (A-Z, 0-6/,-)  Semple ids must be unique  Traus  Dans  Traus		Requested Due Date: 570 777	Phone: 470.620.6176  Fax		Weight Weight	Company GA Power	¥
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ACLER: (Arcadis) - Jel KO Subyli Scon	8	Lynn William 11	128 Br 2/1112 1A	MOLYWHAN MEGBLESCHY					8 3 3 X X X	×	×	×	×	Ž	3 3 × ×	SAMPLE TEMP AT COLLECTION  # OF CONTAINERS Unpreserved H2504 HN03 HCI NacH Nac2203 Methanol Other  Arishys and Text Up 1877 Metals + Ca, Na, K II, F, S04 DS (2540C)	11	40	Page Project Manager: Nirrole D'Oleo	Address:	Ž	Attention: Southern Co.	Section C Invoice Information:
TEMP in C  Received on (ce (Y/N))  Custody Sealed Cooler (Y/N)  Samples Intact (Y/N)	2003	( Work		DATE THE SHAPE CONTINUES		pH:	pH:	pH:	×	×	×	×	×	×	×	DS (2540C)  IAD 9315/9320  Ikalinity (SM2328B)  pp 1/ Il (gpysum only)  Residual Chlorine (Y/N)	CARLO DE CAR			The second secon	digrammade		0



	Lithium ( 7040A: I Alkalinii	App N:	App III A	Anions :		2	=	ā	9			6	a	4	9		-	ITEM#	A CONTRACTOR OF THE PARTY OF TH		Taylor.	Phone:	Empir To:		Address:		Becuired
	Lithium (Li), Molybdenum (Mo), Setanium (Se) 7040k: Mercury (Hg). Also edd Ce, Ne, K for this event. Alkelinity - report total, carbonate, and bicarbonate	App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barkum (Ba), Beryllkum (Be), Cadmium (Cd), Chromaum (Cr), Cobalt (Co), Lead (Pb).	App III Melais: Boron 6020B, Ca 6010D; App III 6020B; Zn, Ag, Ni, V	Anions Suite 300.0 (Cl. F. Suifale)	SEMESTAL CONTINUES					75.70	YAT-YGWA-3D	YAT-YGWA-3I	YAT-YGWA-2I	YAT-YGWA-1D	YAT-YGWA-1I	YAT-YGWA-40	YAT-YGWA-39	SAMPLE ID  One Character per box.  One (A-Z 0-9/,-)  Sample ids must be unique	*		veduces of the case of the last descended	470.620.6176 Fax	To: <u>[aucoker@southernco.com</u>	ı	ss. Atlanta, GA	11	
	***************************************	and (Pb).	- <u>v</u> -	N	E						-							Oreang Waser GHS Writer Wy/ Proses Waser Wy/ Proses Gaston St. Gas Up Wipe AR O'r Teature TS			Project Number:	Project Name:	Ω	- 1	Copy To:	łă	Section B
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WO#: 92651382		Lithium (Li), Molyodenum (Mo), Selenium (Se) 7040A: Mescury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, cerhonals, and bicarbonate	App N. Metals 8020B; Antimony (Sb), Arsenic (As), Benium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobat (Co), Lead (Pb), C	App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	Anions Suite 300 0 (CI, F. Suitate)	ADDITIONAL COMMENTS	YAT-YGWA-14S	YAT-YGWA-30I	YAT-YGWA-21I	YAT-YGWA-20S	YAT-YGWA-18I	YAT-YGWA-18S	YAT-YGWA-178	YAT-YGWA-5D	YAT-YGWA-5I	YAT-YGWA-4I	YAT-GWA-2	YAT-YGWA-47	SAMPLE ID  SAMPLE ID  One Character per box.  (A-Z, 0-9 /, -)  Sample lds must be unique  Taux		Requested Due Date: SHZ TER	470.620.6176 Fax	laucoker@southernco.com		% GA POWER	I¥
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CLIENT: GA-GA Power

PM: BV

Due Date: 02/22/23

# Quality Control Sample Performance Assessment

MS/MSD 2

MS/MSD 1

Sample I.D. Sample MS I.D.

Sample MSD I.D. Spike 1.D.: MS/MSD Decay Corrected Spike Concentration (pCi/mL):

Spike Volume Used in MS (mL):

Spike Volume Used in MSD (mL)

Sample Collection Date:

Sample Matrix Spike Control Assessment

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:

MS Target Conc.(pCi/L, g, F):

MS Aliquot (L, g, F)

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Ra-226 RMS 2/23/2023 71466 WT

Test: Analyst: Date: Worklist: Matrix:

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)?	À
•	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:	ΝΆ	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Marrix Spike Duplicate Result 2 Sigma CSU (pC/II, g, F):
MS Numerical Performance Indicator:
MSD Numerical Performance Indicator:
MSD Numerical Performance Indicator:
MS Percent Recovery:

MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:

MS Status vs Numerical Indicator MSD Status vs Numerical Indicator

MS Status vs Recovery MSD Status vs Recovery

MSD Percent Recovery

mple Assessment			Matrix Spike/Matrix Spike Duplicate Sa
Sample	1 CS71466	92650189021	
Duplicate Sample I.D.		92650189021DUP	
Sample Result (pCi/L, g, F):	4.037	0.272	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.868	0.190	S
Sample Duplicate Result (pCi/L, g, F):	3.903	0.161	Matrix Spike Result
Sample Duplicate Result 2 Sigma CSU (pCi/L. g. F):	0.847	0.314	Sample Ma
Are sample and/or duplicate results below RL?	<u>Q</u>	See Below ##	Matrix Spike Duplicate Result
Duplicate Numerical Performance Indicator:	0.217	0.592	Duplicate Numer
in the LCS/LCSD Percent Recoveries) Duplicate RPD:	3.64%	51.29%	(Based on the Percent Recoveries
Duplicate Status vs Numerical Indicator:	Pass	Pass	MS/ MSD Duplicate Sta
Duplicate Status vs RPD:	N/A	N/A	MS/ MS[
% RPD Limit:	72%	25%	

**Duplicate Sample Assessment** 

											-	
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.

(Based on the LCS/LCSD Percent Rec

Comments:

Page 74 of 77

# Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Ra-228 JJS1 2/24/2023 71467 WT Worklist: Matrix: Test: Analyst: Date:

2753395 0.623 0.341 0.611 3.59 Fall\* MB concentration: M/B 2 Sigma CSU: MB MDC: MB Sample ID MB Numerical Performance Indicator: MB Status vs Numerical Indicator:

Method Blank Assessment

MB Status vs. MDC: See Commen	see comment	
ry Control Sample Assessment	LCSD (Y or N)?	λ
	1 CS71467	LOSD I

			0 0000
	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:		
Ţ	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:		

Laboratory Control Sample Assessment	_CSD (Y or N)?	Υ
	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:	%09	%09

11 - 11 - Change of the Change			Matrix Spike/Matrix Spike Duplicate Sample Assessment
uplicate Sample Assessment			
Sample I.D.:	LCS71467	Enter Duplicate	Sample I.D.
Duplicate Sample I.D.	LCSD71467	sample IDs if	Sample MS I.D.
Sample Result (pCi/L, q F):	3.818	other than	Sample MSD I.D.
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.858	LCS/LCSD in	Sample Matrix Spike Result:
Sample Duplicate Result (pCi/L, g, F):	3,501	the space below.	Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):
Sample Duplicate Result 2 Stama CSU (pCt/L, q, F):	0.804		Sample Matrix Spike Duplicate Result:
Are sample and/or duplicate results below RL?	8		Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):
Duplicate Numerical Performance Indicator:	0.528		Duplicate Numerical Performance Indicator:
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	8.82%		(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:
Duplicate Status vs Numerical Indicator:	Pass		MS/ MSD Duplicate Status vs Numerical Indicator:
Duplicate Status vs RPD:	Pass		MS/ MSD Duplicate Status vs RPD:
% RPD Limit	36%		% RPD Limit:

**Duplicate Sample Assessment** 

## 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.		14/
## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MUC.	. i	Comments: "The method blank result is below the reporting limit for this analysis and is acceptal
	ate results are below the MDC.	## Evaluation of duplicate precision is not applicable if either the sample or duplic

\*The method blank result is below the reporting limit for this analysis and is acceptable.

1 of 1

Ra-228\_71482\_W Ra-228 (ENV-FRM-GBUR-0295 02).xls

Pace Analytical

Analyst Must Manually Enter All Fields Highlighted in Yellow. Quality Control Sample Performance Assessment

Ra-228 Analyst

MS/MSD 2

MS/MSD 1

Sample I.D. Sample MS I.D.

Sample MSD I.D. Spike I.D.

Sample Collection Date:

Sample Matrix Spike Control Assessment

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)

ZPC 2/24/2023 71482 WT Worklist: Matrix: Date:

Method Blank Assessmen

0.353 0.207 0.369 3.34 Fail\* Pass MB Sample ID MB concentration: M/B 2 Sigma CSU: MB MDC: MB Numerical Performance Indicator:

MB Status vs Numerical Indicator: MB Status vs. MDC:

MS Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated):

MSD Target Conc. (pCi/L, g, F)

Sample Result

Sample Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Result

MS Target Conc.(pCi/L, g, F): MSD Aliquot (L, g, F); 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):

MSD Numerical Performance Indicator

MS Numerical Performance Indicato

MS Percent Recovery MSD Percent Recovery MS Status vs Numerical Indicator MSD Status vs Numerical Indicator

Count Date: \_aboratory Control Sample Assessm

22-040 33.398 0.10 0.800 4.173 0.204 3.085 0.814 -2.54 73.93% N/A Pass 135% 60% 2/28/2023 22-040 33.398 0.10 0.801 4.172 0.204 3.338 0.886 -1.80 80.01% Spike I.D.: Decay Corrected Spike Concentration (pCt/mL): Volume Used (mL): Aliquot Volume (L, g, F): Target Conc. (pCi/L, g, F): Uncertainty (Calculated): Result (pCi/L, g, F): LCS/LCSD 2 Sigma CSU (pCi/L, g, F): Numerical Performance Indicator: Percent Recovery: Upper % Recovery Limits: Lower % Recovery Limits: Status vs Recovery Status vs Numerical Indicator

Sample I.D. Sample MS I.D. 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): Sample MSD I.D. Sample Matrix Spike Result: Duplicate Numerical Performance Indicator Matrix Spike/Matrix Spike Duplicate Sample Assessment Enter Duplicate sample IDs if

LCS/LCSD in ne space below

0.886 3.085 0.814 NO 0.413 7.91% Pass Pass 36%

other than

3.338

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?

Duplicate Numerical Performance Indicator

(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD

LCS71482 LCSD71482

Sample I.D.: Duplicate Sample I.D.

Duplicate Sample Assessmen

MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:

MS Status vs Recovery MSD Status vs Recovery (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.

Duplicate Status vs Numerical Indicator:
Duplicate Status vs RPD:
% RPD Limit:

Comments:

herivity sample in this batch is greater than ten times the Diank Value, the Diank is acceptable, otherwise this halph must be re-propped. (NA)S (LCK) Hy L (NA)C POYA- $\mathcal{M}_{3/L,L}$ 

1 of 1

# Pace Analytical"

# Quality Control Sample Performance Assessment

Ra-226 SLC 2/23/2023 71481 WT Analyst: Date: Worklist: Matrix: Test:

MS/MSD 2

MS/MSD 1

Sample I.D. Sample MS I.D. Sample MSD I.D.

Sample Collection Date:

Sample Matrix Spike Control Assessment

Spike I.D.:

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:	A/A

MS Aliquot (L, 9, F):
MS Target Conc.(pCi/L, 9, F):
MSD Aliquot (L, 9, F):
MSD Target Conc. (pCi/L, 9, F):

MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL):

<del>;;</del>	<del></del>	<u></u>	<del></del>	<u></u>	<del></del>	נד	<del></del>	·	Ŀ	· ·		Ŀ	Ľ	<u>.</u>	<u></u>	;ó	2:
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:
		Ļ														-	
_	ΥΥ	LCSD71481	3/3/2023	19-033	24.019	0.10	0.507	4.740	0.057	5.261	0.970	1.05	111.01%	Pass	N/A	125%	75%
1	Γ	Γ															

CS71481 3/3/2023 24.019 0.10 0.500 0.58 4.170 0.819 -1.51 86.87% Pass N/A

Aliquot Volume (L, g, F): Target Conc. (pCi/L, g, F): Uncertainty (Calculated):

Volume Used (mL):

Result (pC/IL, g, F): LCS/LCSD 2 Sigma CSU (pC/IL, g, F): Numerical Performance Indicator:

Percent Recovery

Count Date: Spike I.D.:

Laboratory Control Sample Assessment

Decay Corrected Spike Concentration (pCi/mL):

Status vs Numerical Indicator:
Status vs Recovery:
Upper % Recovery Limits:
Lower % Recovery Limits:

Ž		0	_							_		_
	92651421017	92651421017DUP	0.450	0.200	0.232	0.144	See Below #	1.739	64.12%	Pass	N/A	52%
	LCS71481	LCSD71481	4.170	0.819	5.261	0.970	Q Q	-1.685	24.39%	Pass	N/A	25%
Duplicate Sample Assessment	Sample I.D.:	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?	Duplicate Numerical Performance Indicator:	(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	Duplicate Status vs Numerical Indicator:	Duplicate Status vs RPD:	% RPD Limit:

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:

UAM3|3|23

TAR\_71481\_W Total Alpha Radium (ENV-FRM-GBUR-0142 R0).xls





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

Bonnie Vaing

(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

Tina Sullivan, ERM Jessica Ware, ARCADIS - Atlanta Albert Zumbuhl, Arcadis





#### **CERTIFICATIONS**

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

**Pace Analytical Services Charlotte** 

South Carolina Laboratory ID: 99006 South Carolina Certification #: 99006001

9800 Kincey Ave. Ste 100, Huntersville, NC 28078 South Carolina Drinking Water Cert. #: 99006003

North Carolina Drinking Water Certification #: 37706 Florida/NELAP Certification #: E87627 North Carolina Field Services Certification #: 5342 Kentucky UST Certification #: 84 North Carolina Wastewater Certification #: 12 Louisiana DoH Drinking Water #: LA029 Virginia/VELAP Certification #: 460221

South Carolina Laboratory ID: 99006

**Pace Analytical Services Asheville** 

2225 Riverside Drive, Asheville, NC 28804 South Carolina Laboratory ID: 99030 Florida/NELAP Certification #: E87648 North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

**Pace Analytical Services Peachtree Corners** 

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315 Georgia DW Inorganics Certification #: 812

South Carolina Certification #: 99030001 Virginia/VELAP Certification #: 460222

North Carolina Certification #: 381

South Carolina Certification #: 98011001



# **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



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**



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

EPA 6020B	Lab ID	Sample ID	Method	Analysts	Analytes Reported
SM 2540C-2015 DL1 1 SM 3320B-2011 SMS 3 EPA 300.0 Rev 2.1 1993 CDC 3 EPA 6010D MS 4 EPA 6020B CW1 13 EPA 7470A VB 1 SM 2320B-2011 SMS 3 EPA 300.0 Rev 2.1 1993 CDC 3 EPA 300.0 Rev 2.1 1993 CDC 3 EPA 500.0 Rev 2.1 1993 CD		_	EPA 6020B		13
SM 2320B-2011   SMS   3			EPA 7470A	VB	1
PART   PART			SM 2540C-2015	DL1	1
92651382008 YAT-YGWA-17S			SM 2320B-2011	SMS	3
PAR 6020B   CW1   13     EPA 7470A   VB   1     SM 2540C-2015   BTS   1     SM 2320B-2011   SMS   3     SM 2320B-2011   SMS   3     EPA 300.0 Rev 2.1 1993   CDC   3     PAR 6020B   CW1   13     EPA 6020B   CW1   13     EPA 6020B   CW1   13     EPA 7470A   VB   1     SM 2540C-2015   BTS   1     SM 2540C-2015   BTS   1     SM 2540C-2015   BTS   1     SM 2540C-2015   BTS   1     SM 2540C-2015   BTS   1     SM 2540C-2015   BTS   1     SM 2540C-2015   BTS   1     SM 2540C-2015   BTS   1     SM 2540C-2015   BTS   1     SM 2540C-2015   BTS   1     SM 2540C-2015   BTS   1     SM 2520B-2011   SMS   3     EPA 7470A   VB   1     SM 2540C-2015   BTS   1     SM 2320B-2011   SMS   3     EPA 300.0 Rev 2.1 1993   CDC   3     PAR 6020B   CW1   13     EPA 7470A   VB   1     SM 2540C-2015   BTS   1     SM 2520B-2011   SMS   3     EPA 300.0 Rev 2.1 1993   CDC   3     PAR 7470A   VB   1     SM 2520B-2011   SMS   3     EPA 6020B   CW1   13     EPA 6020B   CW1   13     EPA 6020B   CW1   13     EPA 300.0 Rev 2.1 1993   CDC   3     PAR 7470A   VB   1     SM 2540C-2015   DL1   1     SM 2540C-2015   DL			EPA 300.0 Rev 2.1 1993	CDC	3
PAT-7470A	92651382008	YAT-YGWA-17S	EPA 6010D	MS	4
SM 2540C-2015   BTS   1			EPA 6020B	CW1	13
SM 2320B-2011   SMS   3			EPA 7470A	VB	1
P2651382009 YAT-YGWA-18S			SM 2540C-2015	BTS	1
92651382009 YAT-YGWA-18S			SM 2320B-2011	SMS	3
PPA 6020B   CW1   13			EPA 300.0 Rev 2.1 1993	CDC	3
Page	92651382009	YAT-YGWA-18S	EPA 6010D	MS	4
SM 2540C-2015   BTS   1     SM 2320B-2011   SMS   3     SM 2320B-2011   SMS   3     SM 2320B-2010   SMS   4     SM 2540C-2015   SMS   4     SM 2540C-2015   SMS   1     SM 2540C-2015   SMS   1     SM 2320B-2011   SMS   3     SM 2320B-2011   SMS   3     SM 2320B-2011   SMS   3     SM 2320B-2011   SMS   3     SM 2540C-2015   SMS   3     SM 2320B-2011   SMS   3     SM 2320B-2011   SMS   4     SM 2320B-2011   SMS   4     SM 2540C-2015   SMS   1     SM 2540C-2015   SMS   1     SM 2540C-2015   SMS   1     SM 2540C-2015   SMS   3			EPA 6020B	CW1	13
SM 2320B-2011   SMS   3			EPA 7470A	VB	1
PART   PART			SM 2540C-2015	BTS	1
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 EPA 6010D MS 4 EPA 6020B CW1 13 EPA 6010D MS 4 EPA 6010D MS 4 EPA 6010D MS 1 EPA 7470A VB 1 SM 2320B-2011 SMS 3 EPA 300.0 Rev 2.1 1993 CDC 3 EPA 6010D MS 4 EPA 6020B CW1 13 EPA 7470A VB 1 SM 2320B-2011 SMS 3 EPA 300.0 Rev 2.1 1993 CDC 3 EPA 6020B CW1 13 EPA 6020B CW1 13 EPA 6020B CW1 13 EPA 6020B CW1 13 EPA 6020B CW1 13 EPA 6020B CW1 13 EPA 6020B CW1 13 EPA 6020B CW1 13 EPA 6020B CW1 13 EPA 6020B CW1 13 EPA 7470A VB 1 EPA 6020B CW1 13 EPA 7470A VB 1 EPA 6020B CW1 13 EPA 7470A VB 1 EPA 6020B CW1 13 EPA 7470A VB 1 EPA 6020B CW1 13 EPA 7470A VB 1 EPA 6020B CW1 13 EPA 7470A VB 1 EPA 6020B CW1 13 EPA 7470A VB 1 EPA 6020B CW1 13 EPA 7470A VB 1 EPA 6020B CW1 13 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A VB 1 EPA 6020B CW1 3 EPA 7470A VB 1 EPA 7470A V			SM 2320B-2011	SMS	3
PART SEPA 6020B CW1 13 EPA 7470A VB 1 SM 2540C-2015 BTS 1 SM 2320B-2011 SMS 3 EPA 300.0 Rev 2.1 1993 CDC 3 EPA 6010D MS 4 EPA 7470A VB 1 EPA 6020B CW1 13 EPA 7470A VB 1 EPA 7470A VB 1 EPA 6020B CW1 13 EPA 7470A VB 1 SM 2320B-2011 SMS 3 EPA 300.0 Rev 2.1 1993 CDC 3  PART SEPA 500.0 Rev 2.1 1993 CDC 3 EPA 6020B CW1 13 EPA 6020B CW1 13 EPA 6020B CW1 13 EPA 6020B CW1 13 EPA 6020B CW1 13 EPA 6020B CW1 13 EPA 6020B CW1 13 EPA 7470A VB 1 EPA 6020B CW1 13 EPA 7470A VB 1 SM 2540C-2015 DL1 1 SM 2540C-2015 DL1 1 SM 2540C-2015 DL1 1 SM 2540C-2015 DL1 1 SM 2540C-2015 DL1 1 EPA 7470A VB 1 EPA 7470A			EPA 300.0 Rev 2.1 1993	CDC	3
PAT-YONA 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 7470A VB 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 SM 2320B-2011 SMS 3 EPA 300.0 Rev 2.1 1993 CDC 3  92651382012 YAT-YGWA-47 EPA 6010D MS 4 EPA 7470A VB 1 SM 2320B-2011 SMS 4 EPA 7470A VB 1 SM 2320B-2011 SMS 4 EPA 7470A VB 1 SM 2540C-2015 DL1 13 EPA 7470A VB 1 SM 2540C-2015 DL1 1 SM 2540C-201	92651382010	YAT-YGWA-18I	EPA 6010D	MS	4
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 7470A VB 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 SM 2320B-2011 SMS 3 EPA 300.0 Rev 2.1 1993 CDC 3 EPA 6020B CW1 13 EPA 6020B CW1 13 EPA 6020B CW1 13 EPA 6020B CW1 13 EPA 6020B CW1 13 EPA 7470A VB 1 EPA 6020B CW1 13 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A SMS 3 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A NB 1 EPA 7470A NB 1 EPA 7470A NB 1 EPA 300.0 Rev 2.1 1993 CDC 3  92651382013 YAT-YGWA-301 EPA 6010D MS 4			EPA 6020B	CW1	13
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 6020B CW1 13 EPA 6020B CW1 13 EPA 6020B CW1 13 EPA 6020B CW1 13 EPA 6020B CW1 13 EPA 7470A VB 1 SM 2540C-2015 DL1 1 SM 2320B-2011 SMS 3 EPA 7470A VB 1 SM 2540C-2015 DL1 1 SM 2320B-2011 SMS 3 EPA 7470A VB 1 EPA 7470A VB 1 SM 2540C-2015 DL1 1 SM 2320B-2011 SMS 3 EPA 300.0 Rev 2.1 1993 CDC 3			EPA 7470A	VB	1
P2651382011 YAT-YGWA-39  EPA 300.0 Rev 2.1 1993 CDC 3  EPA 6010D MS 4  EPA 6020B CW1 13  EPA 7470A VB 1  SM 2540C-2015 BTS 1  SM 2320B-2011 SMS 3  EPA 300.0 Rev 2.1 1993 CDC 3  P2651382012 YAT-YGWA-47  EPA 6010D MS 4  EPA 6020B CW1 13  EPA 6020B CW1 13  EPA 6020B CW1 13  EPA 6020B CW1 13  EPA 7470A VB 1  SM 2540C-2015 DL1 1  SM 2540C-2015 DL1 1  SM 2540C-2015 DL1 1  SM 2540C-2015 DL1 1  SM 2520B-2011 SMS 3  EPA 300.0 Rev 2.1 1993 CDC 3  EPA 300.0 Rev 2.1 1993 CDC 3			SM 2540C-2015	BTS	1
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  PAT-YGWA-47  EPA 6020B CW1 13  EPA 6010D MS 4  EPA 6010D MS 4  EPA 6020B CW1 13  EPA 7470A VB 1  SM 2540C-2015 DL1 1  SM 2540C-2015 DL1 1  SM 2540C-2015 DL1 1  SM 2320B-2011 SMS 3  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-301 EPA 6010D MS 4			SM 2320B-2011	SMS	3
PAG 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  P2651382012 YAT-YGWA-47 EPA 6010D MS 4 EPA 7470A VB 1 EPA 7470A VB 1 SM 2540C-2015 DL1 11 SM 2540C-2015 DL1 1 SM 2320B-2011 SMS 3 EPA 7470A VB 1 SM 2320B-2011 SMS 3 EPA 300.0 Rev 2.1 1993 CDC 3  P2651382013 YAT-YGWA-30I EPA 6010D MS 4			EPA 300.0 Rev 2.1 1993	CDC	3
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 7470A VB 1 EPA 7470A VB 1 SM 2540C-2015 DL1 1 SM 2540C-2015 DL1 1 SM 2320B-2011 SMS 3 EPA 300.0 Rev 2.1 1993 CDC 3  92651382013 YAT-YGWA-301 EPA 6010D MS 4	92651382011	YAT-YGWA-39	EPA 6010D	MS	4
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 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
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 7470A	VB	1
P2651382012 YAT-YGWA-47 EPA 6010D MS 4 EPA 6020B CW1 13 EPA 7470A VB 1 SM 2540C-2015 DL1 1 SMS 3 EPA 300.0 Rev 2.1 1993 CDC 3 EPA 300.0 Rev 2.1 1993 CDC 3 P2651382013 YAT-YGWA-30I EPA 6010D MS 4			SM 2540C-2015	BTS	1
92651382012 YAT-YGWA-47 EPA 6010D MS 4 EPA 6020B CW1 13 EPA 7470A VB 1 SM 2540C-2015 DL1 1 SMS 3 EPA 300.0 Rev 2.1 1993 CDC 3 92651382013 YAT-YGWA-30I EPA 6010D MS 4			SM 2320B-2011	SMS	3
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 300.0 Rev 2.1 1993	CDC	3
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	92651382012	YAT-YGWA-47	EPA 6010D	MS	4
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
SM 2320B-2011 SMS 3 EPA 300.0 Rev 2.1 1993 CDC 3 92651382013 YAT-YGWA-30I EPA 6010D MS 4			EPA 7470A	VB	1
EPA 300.0 Rev 2.1 1993         CDC         3           92651382013         YAT-YGWA-30I         EPA 6010D         MS         4			SM 2540C-2015	DL1	1
<b>92651382013 YAT-YGWA-30I</b> EPA 6010D MS 4			SM 2320B-2011	SMS	3
			EPA 300.0 Rev 2.1 1993	CDC	3
EPA 6020B CW1 13	92651382013	YAT-YGWA-30I	EPA 6010D	MS	4
			EPA 6020B	CW1	13

# **REPORT OF LABORATORY ANALYSIS**



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A		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
2651382016	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
2651382017	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

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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



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651382001	YAT-YGWA-1I					
	Performed by	Client			03/03/23 10:59	
	Collected By	Jake			03/03/23 10:59	
		Swanson				
	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	
2651382002	YAT-YGWA-1D					
	Performed by	Client			03/03/23 11:00	
	Collected By	Jake			03/03/23 11:00	
	Oallanda d Dada	Swanson			00/00/00 44 00	
	Collected Date	02/07/23			03/03/23 11:00	
	Collected Time	13:40	Ctal IIaita		03/03/23 11:00	
-DA 0040D	pH	7.86	Std. Units	0.00	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		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	
2651382003	YAT-YGWA-2I					
	Performed by	Client			03/03/23 11:00	
	Collected By	Jake			03/03/23 11:00	
	0000.00 2)	Swanson				

# **REPORT OF LABORATORY ANALYSIS**



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Lab Sample ID	Client Sample ID					
Method	Parameters	Result _	Units	Report Limit	Analyzed	Qualifier
2651382003	YAT-YGWA-2I					
	Collected Time	15:40			03/03/23 11:00	
	рН	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	
PA 6020B	Lithium	0.0047J	mg/L	0.030	02/21/23 18:06	
PA 6020B	Molybdenum	0.0061J	mg/L	0.010	02/21/23 18:06	
M 2540C-2015	Total Dissolved Solids	159	mg/L	25.0	02/10/23 20:18	
M 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	87.6	mg/L	5.0	02/15/23 18:36	
M 2320B-2011	Alkalinity, Total as CaCO3	87.6	mg/L	5.0	02/15/23 18:36	
PA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	02/10/23 21:59	
PA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	02/10/23 21:59	
PA 300.0 Rev 2.1 1993	Sulfate	17.8	mg/L	1.0	02/10/23 21:59	
2651382004	YAT-GWA-2		3			
.001002001	Performed by	Client			03/03/23 11:01	
	Collected By	Jake			03/03/23 11:01	
	Concolod By	Swanson			00/00/20 11.01	
	Collected Date	02/07/23			03/03/23 11:01	
	Collected Time	11:48			03/03/23 11:01	
	рН	5.94	Std. Units		03/03/23 11:01	
PA 6010D	Potassium	9.5	mg/L	0.20	02/21/23 17:00	
PA 6010D	Sodium	8.1	mg/L	1.0	02/21/23 17:00	
PA 6010D	Calcium	22.3	mg/L	1.0	02/21/23 17:00	
PA 6010D	Magnesium	19.3	mg/L	0.050	02/21/23 17:00	
PA 6020B	Barium	0.034	mg/L	0.0050	02/21/23 18:12	
PA 6020B	Cadmium	0.00012J	mg/L	0.00050	02/21/23 18:12	
PA 6020B	Cobalt	0.034	mg/L	0.0050	02/21/23 18:12	
PA 6020B	Lithium	0.0022J	mg/L	0.030	02/21/23 18:12	
PA 6020B	Nickel	0.0096	mg/L	0.0050	02/21/23 18:12	
PA 6020B	Zinc	0.0072J	mg/L	0.010	02/21/23 18:12	
PA 7470A	Mercury	0.00013J	mg/L	0.00020	02/24/23 12:03	
M 2540C-2015	Total Dissolved Solids	207	mg/L	25.0	02/10/23 20:18	
M 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	62.4	mg/L	5.0	02/15/23 18:45	
M 2320B-2011	Alkalinity, Total as CaCO3	62.4	mg/L	5.0	02/15/23 18:45	
PA 300.0 Rev 2.1 1993	Chloride	6.1	mg/L		02/10/23 10:43	
EPA 300.0 Rev 2.1 1993	Fluoride	0.095J	mg/L	0.10		
EPA 300.0 Rev 2.1 1993	Sulfate	82.4	mg/L		02/10/23 22:14	
2651382005	YAT-YGWA-5D	02.4	g/ L	1.0	32, 10,20 22.1T	
LUJ 1302003	Performed by	Client			03/03/23 11:05	
	Collected By	Jake			03/03/23 11:05	
	Collected by	Swanson			00/00/20 11.00	
	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	
PA 6010D	Potassium	3.7	mg/L	0.20	02/21/23 17:05	

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Lab Sample ID	Client Sample ID					
Method	Parameters	Result _	Units	Report Limit	Analyzed	Qualifiers
2651382005	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	
PA 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	
2651382006	YAT-YGWA-20S					
	Performed by	Client			03/03/23 11:05	
	Collected By	Jake			03/03/23 11:05	
	•	Swanson				
	Collected Date	02/07/23			03/03/23 11:05	
	Collected Time	14:50			03/03/23 11:05	
	рН	5.63	Std. Units		03/03/23 11:05	
PA 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	
PA 6010D	Magnesium	0.58	mg/L	0.050	02/21/23 17:10	
PA 6020B	Barium	0.014	mg/L	0.0050	02/21/23 18:24	
PA 6020B	Beryllium	0.000074J	mg/L	0.00050	02/21/23 18:24	
PA 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	
PA 300.0 Rev 2.1 1993	Chloride	2.9	mg/L	1.0	02/10/23 23:14	
2651382007	YAT-YGWA-21I					
	Performed by	Client			03/03/23 11:06	
	Collected By	Jake			03/03/23 11:06	
		Swanson				
	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	
PA 6010D	Sodium	20.4	mg/L	1.0		
PA 6010D	Calcium	7.5	mg/L	1.0	02/21/23 17:14	
PA 6010D	Magnesium	3.9	mg/L	0.050	02/21/23 17:14	
PA 6020B	Arsenic	0.0028J	mg/L	0.0050	02/21/23 18:30	
PA 6020B	Barium	0.010	mg/L	0.0050	02/21/23 18:30	
PA 6020B	Cadmium	0.00012J	mg/L	0.00050	02/21/23 18:30	
PA 6020B	Cobalt	0.014	mg/L	0.0050	02/21/23 18:30	
PA 6020B	Lithium	0.0059J	mg/L	0.030	02/21/23 18:30	

# **REPORT OF LABORATORY ANALYSIS**



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

ab Sample ID	Client Sample ID	<b>-</b>				
Method	Parameters —	Result _	Units	Report Limit	Analyzed .	Qualifiers
2651382007	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	
M 2320B-2011	Alkalinity, Total as CaCO3	78.4	mg/L	5.0	02/15/23 19:06	
PA 300.0 Rev 2.1 1993	Chloride	2.4	mg/L	1.0	02/10/23 23:28	
PA 300.0 Rev 2.1 1993	Fluoride	0.10	mg/L	0.10	02/10/23 23:28	
PA 300.0 Rev 2.1 1993	Sulfate	3.8	mg/L	1.0	02/10/23 23:28	
2651382008	YAT-YGWA-17S					
	Performed by	Client			03/03/23 11:12	
	Collected By	Jake			03/03/23 11:12	
		Swanson				
	Collected Date	02/07/23			03/03/23 11:12	
	Collected Time	11:16			03/03/23 11:12	
	рН	5.47	Std. Units		03/03/23 11:12	
PA 6010D	Potassium	0.41	mg/L	0.20	02/22/23 15:47	
PA 6010D	Sodium	14.2	mg/L	1.0	02/21/23 17:19	
PA 6010D	Calcium	2.9	mg/L	1.0	02/21/23 17:19	
PA 6010D	Magnesium	0.98	mg/L	0.050	02/21/23 17:19	
PA 6020B	Antimony	0.0013J	mg/L	0.0030	02/21/23 19:05	
PA 6020B	Barium	0.017	mg/L	0.0050	02/21/23 19:05	
PA 6020B	Beryllium	0.000096J	mg/L	0.00050	02/21/23 19:05	
PA 6020B	Boron	0.014J	mg/L	0.040	02/21/23 19:05	
PA 7470A	Mercury	0.00018J	mg/L	0.00020	02/24/23 12:13	
M 2540C-2015	Total Dissolved Solids	78.0	mg/L	25.0	02/13/23 11:02	
M 2320B-2011	Alkalinity, Bicarbonate (CaCO3)	15.6	mg/L	5.0	02/15/23 19:14	
M 2320B-2011	Alkalinity, Total as CaCO3	15.6	mg/L	5.0	02/15/23 19:14	
PA 300.0 Rev 2.1 1993	Chloride	11.4	mg/L	1.0	02/10/23 23:43	
PA 300.0 Rev 2.1 1993	Sulfate	4.9	mg/L	1.0	02/10/23 23:43	
2651382009	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	
PA 6010D	Sodium	7.8	mg/L	1.0	02/21/23 17:24	
PA 6010D	Calcium	0.79J	mg/L	1.0		
PA 6010D	Magnesium	0.91	mg/L	0.050	02/21/23 17:24	
PA 6010D	Potassium	0.50	mg/L	0.20	02/22/23 15:52	
PA 6020B	Barium	0.012	mg/L	0.0050	02/21/23 19:11	
PA 6020B	Beryllium	0.000071J	mg/L	0.00050	02/21/23 19:11	
PA 6020B	Chromium	0.0016J	mg/L	0.0050		
PA 6020B	Lithium	0.0010J	mg/L	0.030		
PA 7470A	Mercury	0.00123 0.00017J	mg/L	0.00020	02/24/23 12:16	
1117101			mg/L	25.0	02/13/23 11:02	
M 2540C-2015	Intal Dissolved Solids					
M 2540C-2015 M 2320B-2011	Total Dissolved Solids Alkalinity,Bicarbonate (CaCO3)	55.0 9.3	mg/L	5.0	02/15/23 11:02	

# **REPORT OF LABORATORY ANALYSIS**



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Lab Sample ID	Client Sample ID					
Method	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	
	рН	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	
2651382011	YAT-YGWA-39					
	Performed by	Client			03/03/23 11:17	
	Collected By	Jake			03/03/23 11:17	
	·	Swanson				
	Collected Date	02/07/23			03/03/23 11:17	
	Collected Time	16:15			03/03/23 11:17	
	рН	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	
=1 7 ( 000.0 1 (0 <b>v 2</b> .1 1000						



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Lab Sample ID Method	Client Sample ID  Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
	- Falameters	— Result	Units	- Report Limit	- Analyzeu	Qualifiers
2651382012	YAT-YGWA-47					
	Performed by	Client			03/03/23 14:32	
	Collected By	Jake			03/03/23 14:32	
		Swanson				
	Collected Date	02/08/23			03/03/23 14:32	
	Collected Time	17:02	0.111.		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	
2651382013	YAT-YGWA-30I					
	Performed by	Client			03/03/23 14:39	
	Collected By	Jake			03/03/23 14:39	
	·	Swanson				
	Collected Date	02/08/23			03/03/23 14:39	
	Collected Time	15:10			03/03/23 14:39	
	рН	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	
2651382014	YAT-YGWA-14S					
	Performed by	Client			03/03/23 14:54	
	Collected By	Jake			03/03/23 14:54	
		Swanson			23,00,20 11.07	
	Collected Date	02/08/23			03/03/23 14:54	

# **REPORT OF LABORATORY ANALYSIS**



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
2651382014	YAT-YGWA-14S					
	Collected Time	13:50			03/03/23 14:54	
	рН	5.39	Std. Units		03/03/23 14:54	
PA 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	
PA 6010D	Calcium	1.5	mg/L	1.0	02/21/23 17:58	
PA 6010D	Magnesium	1.6	mg/L	0.050	02/21/23 17:58	
PA 6020B	Barium	0.0089	mg/L	0.0050	02/21/23 19:41	
PA 6020B	Beryllium	0.00022J	mg/L	0.00050	02/21/23 19:41	
PA 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	
PA 300.0 Rev 2.1 1993	Chloride	4.9	mg/L	1.0	02/14/23 05:40	
PA 300.0 Rev 2.1 1993	Fluoride	0.059J	mg/L	0.10	02/14/23 05:40	
PA 300.0 Rev 2.1 1993	Sulfate	6.1	mg/L	1.0	02/14/23 05:40	
2651382015	YAT-YGWA-3I					
	Performed by	Client			03/03/23 14:55	
	Collected By	Jake			03/03/23 14:55	
	,	Swanson				
	Collected Date	02/08/23			03/03/23 14:55	
	Collected Time	10:00			03/03/23 14:55	
	рН	7.73	Std. Units		03/03/23 14:55	
PA 6010D	Potassium	5.3	mg/L	0.20	02/21/23 18:03	
PA 6010D	Sodium	9.4	mg/L	1.0	02/21/23 18:03	
PA 6010D	Calcium	23.3	mg/L	1.0	02/21/23 18:03	
PA 6010D	Magnesium	5.4	mg/L	0.050	02/21/23 18:03	
PA 6020B	Arsenic	0.0024J	mg/L	0.0050	02/21/23 19:47	
PA 6020B	Barium	0.0029J	mg/L	0.0050	02/21/23 19:47	
PA 6020B	Cadmium	0.00013J	mg/L	0.00050	02/21/23 19:47	
PA 6020B	Lithium	0.018J	mg/L	0.030	02/21/23 19:47	
PA 6020B	Molybdenum	0.0065J	mg/L	0.010	02/21/23 19:47	
M 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	
M 2320B-2011	Alkalinity, Total as CaCO3	92.2	mg/L	5.0	02/17/23 13:43	
PA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	02/14/23 06:25	
PA 300.0 Rev 2.1 1993	Fluoride	0.16	mg/L	0.10	02/14/23 06:25	
PA 300.0 Rev 2.1 1993	Sulfate	14.7	mg/L	1.0	02/14/23 06:25	
2651382016	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	
	рН	7.88	Std. Units		03/03/23 14:56	
PA 6010D	Potassium	3.5	mg/L	0.20	02/21/23 18:08	
PA 6010D	Sodium	9.9	mg/L	1.0	02/21/23 18:08	
EPA 6010D	Calcium	28.9	mg/L	1.0	02/21/23 18:08	

# **REPORT OF LABORATORY ANALYSIS**



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Lab Sample ID	Client Sample ID					
Method	Parameters —	Result _	Units	Report Limit	Analyzed	Qualifiers
2651382016	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	
PA 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	
M 2320B-2011	Alkalinity, Total as CaCO3	106	mg/L	5.0	02/17/23 13:51	
PA 300.0 Rev 2.1 1993	Chloride	1.2	mg/L	1.0	02/14/23 07:10	
PA 300.0 Rev 2.1 1993	Fluoride	0.56	mg/L	0.10	02/14/23 07:10	
PA 300.0 Rev 2.1 1993	Sulfate	7.5	mg/L	1.0	02/14/23 07:10	
2651382017	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	
PA 6010D	Potassium	2.2	mg/L	0.20	02/21/23 18:12	
PA 6010D	Sodium	10.1	mg/L	1.0	02/21/23 18:12	
PA 6010D	Calcium	5.9	mg/L	1.0	02/21/23 18:12	
		3.4	•	0.050	02/21/23 18:12	
PA 6010D	Magnesium		mg/L			
PA 6020B	Barium	0.037	mg/L	0.0050	02/21/23 20:11	
PA 6020B	Beryllium	0.00026J	mg/L	0.00050	02/21/23 20:11	
PA 6020B	Boron	0.057	mg/L	0.040	02/21/23 20:11	
PA 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	
M 2320B-2011	Alkalinity, Total as CaCO3	27.6	mg/L	5.0	02/17/23 14:09	
PA 300.0 Rev 2.1 1993	Chloride	6.9	mg/L	1.0	02/14/23 08:10	
PA 300.0 Rev 2.1 1993	Sulfate	17.5	mg/L	1.0	02/14/23 08:10	
2651382018	YAT-YGWA-4I	<b>2</b> 11 .				
	Performed by	Client			03/03/23 14:57	
	Collected By	Jake			03/03/23 14:57	
	Callasted Data	Swanson			02/02/22 14:57	
	Collected Date	02/09/23			03/03/23 14:57	
	Collected Time	09:55	Ctd Units		03/03/23 14:57	
DA 6010D	pH Retaggium	6.23	Std. Units	0.00	03/03/23 14:57	
PA 6010D	Potassium	4.1	mg/L	0.20	02/21/23 18:17	
PA 6010D	Sodium	9.9	mg/L	1.0	02/21/23 18:17	
PA 6010D	Calcium	9.6	mg/L	1.0	02/21/23 18:17	
PA 6010D	Magnesium	5.3	mg/L	0.050	02/21/23 18:17	
PA 6020B	Barium	0.014	mg/L	0.0050	02/21/23 20:17	
PA 6020B	Lithium	0.014J	mg/L	0.030	02/21/23 20:17	
M 2540C-2015	Total Dissolved Solids	124	mg/L	25.0	02/15/23 18:40	
SM 2320B-2011	Alkalinity, Bicarbonate (CaCO3)	57.7	mg/L	5.0	02/17/23 18:12	
SM 2320B-2011	Alkalinity, Total as CaCO3	57.7	mg/L	5.0	02/17/23 18:12	

# **REPORT OF LABORATORY ANALYSIS**



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	
	рН	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	



Project: Plant Yates Pooled Upgradient

Date: 03/21/2023 02:17 AM

Sample: YAT-YGWA-1I	Lab ID:	92651382001	Collecte	ed: 02/07/23	11:45	Received: 02/	08/23 09:00 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	Client				1		03/03/23 10:59		
Collected By	Jake				1		03/03/23 10:59		
Solicoted By	Swanson				•		00/00/20 10:00		
Collected Date	02/07/23				1		03/03/23 10:59		
Collected Time	11:45				1		03/03/23 10:59		
ρΗ	6.53	Std. Units			1		03/03/23 10:59		
010D ATL ICP	Analytical	Method: EPA 6	010D Pre	paration Met	hod: EF	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, G	βA				
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			
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	
020 MET ICPMS	Analytical	Method: EPA 6	6020B Prei	paration Met	hod: EF	PA 3005A			
	-	lytical Services							
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			
Barium	0.21	mg/L	0.0050	0.00067	1	02/20/23 17:00			
Beryllium	0.00054	mg/L	0.00050	0.000054	1	02/20/23 17:00			
Boron	ND	mg/L	0.040	0.0086	1		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	
.ead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 17:54	7439-92-1	
ithium	0.0029J	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 17:54	7439-93-2	
Nolybdenum	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	
-hallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 17:54	7440-28-0	
470 Mercury	Analytical	Method: EPA 7	470A Prer	paration Met	nod: EF	PA 7470A			
,	-	lytical Services							
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 25	540C-2015						
I	•	lytical Services		e Corners, G	SA				
Total Dissolved Solids	121	mg/L	25.0	25.0	1		02/10/23 20:18		
2320B Alkalinity	Analytical	Method: SM 23	320B-2011						
<i>-</i>	-	lytical Services							
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		



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Date: 03/21/2023 02:17 AM

Sample: YAT-YGWA-1I	Lab ID:	Lab ID: 92651382001			11:45	Received: 02	2/08/23 09:00 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	•	Method: EPA 3 ytical Services		1 1993					
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	



Project: Plant Yates Pooled Upgradient

Date: 03/21/2023 02:17 AM

Sample: YAT-YGWA-1D	Lab ID:	92651382002	Collecte	ed: 02/07/23	13:40	Received: 02/	08/23 09:00 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	Client				1		03/03/23 11:00		
Collected By	Jake				1		03/03/23 11:00		
	Swanson				•		00/00/20 11:00		
Collected Date	02/07/23				1		03/03/23 11:00		
Collected Time	13:40				1		03/03/23 11:00		
Н	7.86	Std. Units			1		03/03/23 11:00		
6010D ATL ICP	Analytical	Method: EPA 6	010D Prep	paration Met	hod: EF	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, G	βA				
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 6	020B Pren	paration Met	hod: EF	PA 3005A			
V=0=1 100	-	lytical Services							
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			
Barium	0.14	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 18:00		
Beryllium	0.0011	mg/L	0.00050	0.000054	1	02/20/23 17:00			
Boron	ND	mg/L	0.040	0.0086	1		02/21/23 18:00		
Cadmium	ND	mg/L	0.00050	0.00011	1		02/21/23 18:00		
Chromium	ND	mg/L	0.0050	0.0011	1		02/21/23 18:00		
Cobalt	0.00097J	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 18:00		
_ead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00			
Lithium	0.0060J	mg/L	0.030	0.00073	1	02/20/23 17:00			
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00			
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00			
Γhallium	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 7	470A Prer	paration Met	nod: FF	PA 7470A			
470 Merodry	-	llytical Services				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
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 25							
LUTUU TULAI DISSUIVEU SUIIUS	-	llytical Services			ìΑ				
Total Dissolved Solids	131	mg/L	25.0	25.0	1		02/10/23 20:18		
		-		20.0	•		02, 10,20 20.10		
2320B Alkalinity	•	Method: SM 23							
	Pace Ana	llytical 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		



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Date: 03/21/2023 02:17 AM

Sample: YAT-YGWA-1D	Lab ID:	Lab ID: 92651382002			13:40	Received: 02	2/08/23 09:00 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	•	Method: EPA 3 ytical Services		1 1993					
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	



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Date: 03/21/2023 02:17 AM

Sample: YAT-YGWA-2I	Lab ID:	92651382003	Collecte	ed: 02/07/2	3 15:40	Received: 02/	08/23 09:00 N	fatrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	-	lytical Services	- Charlotte	<b>;</b>					
Performed by	Client				1		03/03/23 11:00	1	
Collected By	Jake				1		03/03/23 11:00		
Soliceted By	Swanson				'		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	)	
ρΗ	6.94	Std. Units			1		03/03/23 11:00	)	
010D ATL ICP	Analytical	Method: EPA 6	010D Pre	paration Me	thod: EF	PA 3010A			
	Pace Ana	llytical Services	- Peachtre	e Corners, 0	βA				
Potassium	5.1	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 16:1	5 7440-09-7	
Sodium	9.0	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 16:15		M1
Calcium	25.6	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 16:15	5 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 6	020B Pre	paration Me	hod: EF	PA 3005A			
	-	lytical Services							
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 17:00	02/21/23 18:06	6 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	6 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	
_ead	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	
Γhallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 18:06	5 7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	470A Pre	paration Met	hod: EP	A 7470A			
-	Pace Ana	lytical Services	- Peachtre	e Corners, (	3A				
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 25	540C-2015						
		lytical Services			3A				
Total Dissolved Solids	159	mg/L	25.0	25.0	1		02/10/23 20:18	3	
2320B Alkalinity	Analytical	Method: SM 23	320B-2011						
•	-	lytical Services							
Alkalinity, Bicarbonate (CaCO3)	87.6	mg/L	5.0	5.0	1		02/15/23 18:36	6	
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		



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Date: 03/21/2023 02:17 AM

Sample: YAT-YGWA-2I	Lab ID:	Lab ID: 92651382003			15:40	Received: 02	2/08/23 09:00 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	•	Method: EPA 3		1 1993					
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	



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Date: 03/21/2023 02:17 AM

Sample: YAT-GWA-2	Lab ID:	92651382004	Collected	d: 02/07/2	3 11:48	Received: 02/	08/23 09:00 M	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	-	lytical Services	- Charlotte						
Performed by	Client				1		03/03/23 11:01		
Collected By	Jake				1		03/03/23 11:01		
	Swanson								
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 6	010D Prepa	aration Me	thod: EF	PA 3010A			
	Pace Ana	lytical Services	- Peachtree	Corners, C	ЭΑ				
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 6	020B Prepa	aration Met	hod: EF	PA 3005A			
	-	lytical Services							
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			
Barium	0.034	mg/L	0.0050	0.00067	1		02/21/23 18:12		
Beryllium	ND	mg/L		0.000054	1		02/21/23 18:12		
Boron	ND	mg/L	0.040	0.0086	1		02/21/23 18:12		
Cadmium	0.00012J	mg/L	0.00050	0.00011	1		02/21/23 18:12		
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00			
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 7	470A Prepa	aration Met	hod: EF	'A 7470A			
· ····· <b>,</b>	,	lytical Services	•						
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 25	540C-2015						
	,								
	Pace Ana	lytical Services	<ul> <li>Peachtree</li> </ul>	Corners, C	3A				



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Date: 03/21/2023 02:17 AM

Sample: YAT-GWA-2	Lab ID:	92651382004	Collecte	d: 02/07/23	11:48	Received: 02/	/08/23 09:00 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
- r didilleteis	- <del> </del>				DI	—————	- Allalyzeu		Quai
2320B Alkalinity	Analytical	Method: SM 23	320B-2011						
	Pace Anal	ytical 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 3	00.0 Rev 2	.1 1993					
	Pace Anal	ytical 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	



Project: Plant Yates Pooled Upgradient

Date: 03/21/2023 02:17 AM

Sample: YAT-YGWA-5D	Lab ID:	92651382005	Collecte	d: 02/07/23	16:22	Received: 02/	08/23 09:00 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL .	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	Client				1		03/03/23 11:05		
Collected By	Jake				1		03/03/23 11:05		
,	Swanson								
Collected Date	02/07/23				1		03/03/23 11:05		
Collected Time	16:22				1		03/03/23 11:05		
Н	6.64	Std. Units			1		03/03/23 11:05		
6010D ATL ICP	Analytical	Method: EPA 6	010D Prep	paration Met	hod: EF	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, G	βA				
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 6	020B Prep	aration Met	hod: EF	PA 3005A			
	-	lytical Services							
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			
Barium	0.0075	mg/L	0.0050	0.00067	1	02/20/23 17:00			
Beryllium	ND	mg/L	0.00050	0.000054	1		02/21/23 18:18		
Boron	ND	mg/L	0.040	0.0086	1		02/21/23 18:18		
Cadmium	ND	mg/L	0.00050	0.00011	1		02/21/23 18:18		
Chromium	ND	mg/L	0.0050	0.0011	1		02/21/23 18:18		
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 18:18		
_ead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00			
_ithium	0.0059J	mg/L	0.030	0.00073	1		02/21/23 18:18	7439-93-2	
Molybdenum	0.00095J	mg/L	0.010	0.00074	1	02/20/23 17:00			
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00		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 7	470A Pren	aration Met	nod: FF	A 7470A			
470 merodry	-	lytical Services				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
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 25	540C-2015						
20400 IUIAI DISSUIVEU SUIIUS	-	lytical Services		e Corners G	ìΑ				
Total Dissolved Solids	180	mg/L	25.0	25.0	1		02/10/23 20:19		
		•		20.0	•		52/10/20 20.19		
2320B Alkalinity	•	Method: SM 23							
	Pace Ana	lytical 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		



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Date: 03/21/2023 02:17 AM

Sample: YAT-YGWA-5D	Lab ID:	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	•	Method: EPA 3 ytical Services		1 1993					
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	



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Date: 03/21/2023 02:17 AM

Sample: YAT-YGWA-20S	Lab ID:	92651382006	Collecte	ed: 02/07/23	14:50	Received: 02/	08/23 09:00 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL .	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	-	lytical Services	- Charlotte						
Performed by	Client				1		03/03/23 11:05		
Collected By	Jake				1		03/03/23 11:05		
	Swanson								
Collected Date	02/07/23				1		03/03/23 11:05		
Collected Time	14:50	Ctd Unito			1 1		03/03/23 11:05		
H	5.63	Std. Units			1		03/03/23 11:05		
6010D ATL ICP	Analytical	Method: EPA 6	010D Prep	paration Met	hod: EF	PA 3010A			
	Pace Ana	lytical Services	<ul> <li>Peachtre</li> </ul>	e Corners, G	βA				
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 6	020B Prer	naration Met	hod: FF	PA 3005A			
7020 MET 101 M0	•	lytical Services				71000071			
				•		00/00/00 47 00	00/04/00 40 04	7440.00.0	
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 17:00	02/21/23 18:24		
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00			
Barium	0.014	mg/L	0.0050	0.00067	1	02/20/23 17:00			
Beryllium	0.000074J	mg/L	0.00050	0.000054	1	02/20/23 17:00			
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00			
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 18:24		
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 18:24		
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00			
ead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00			
ithium	ND	mg/L	0.030	0.00073	1	02/20/23 17:00			
/lolybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00			
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 7	470A Prep	paration Met	nod: EF	PA 7470A			
•	Pace Ana	lytical Services	- Peachtre	e Corners, G	βA				
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 25	40C-2015						
	-	lytical Services		e Corners, G	SA.				
Total Dissolved Solids	89.0	mg/L	25.0	25.0	1		02/10/23 20:19		
2320B Alkalinity	Analytical	Method: SM 23	20B-2011						
- · · · ·	-	lytical Services							
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		



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Date: 03/21/2023 02:17 AM

Sample: YAT-YGWA-20S	Lab ID:	92651382006	Collecte	d: 02/07/23	14:50	Received: 02	2/08/23 09:00 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	•	Method: EPA 3 ytical Services		.1 1993					
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	



Project: Plant Yates Pooled Upgradient

Date: 03/21/2023 02:17 AM

Sample: YAT-YGWA-21I	Lab ID:	92651382007	Collecte	d: 02/07/23	12:48	Received: 02/	08/23 09:00 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	Client				1		03/03/23 11:06		
Collected By	Jake				1		03/03/23 11:06		
•	Swanson								
Collected Date	02/07/23				1		03/03/23 11:06		
Collected Time	12:48				1		03/03/23 11:06		
Н	6.82	Std. Units			1		03/03/23 11:06		
6010D ATL ICP	Analytical	Method: EPA 6	010D Prep	paration Met	hod: EF	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, G	βA				
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 6	020B Prec	aration Met	hod: EF	PA 3005A			
	-	lytical Services				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
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	0.00078	1	02/20/23 17:00			
Barium	0.00283	-	0.0050	0.0022	1	02/20/23 17:00			
	0.010 ND	mg/L	0.0050	0.00007		02/20/23 17:00			
Beryllium Boron	ND ND	mg/L mg/L	0.00030	0.00034	1 1		02/21/23 18:30		
Cadmium	0.00012J	mg/L	0.040	0.00011	1		02/21/23 18:30		
Chromium	0.000123 ND	-	0.0050	0.00011	1		02/21/23 18:30		
Cobalt	0.014	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 18:30		
	0.014 ND	mg/L							
.ead .ithium	טא <b>0.0059J</b>	mg/L	0.0010 0.030	0.00089 0.00073	1	02/20/23 17:00 02/20/23 17:00			
	0.00593 ND	mg/L	0.030	0.00073	1 1	02/20/23 17:00			
Molybdenum		mg/L		0.00074					
Selenium	ND	mg/L	0.0050		1	02/20/23 17:00	02/21/23 18:30		
Γhallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 16.30	7440-26-0	
7470 Mercury	-	Method: EPA 7				A 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, G	βA				
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 25	540C-2015						
	-	lytical Services		e Corners, G	βA				
Total Dissolved Solids	163	mg/L	25.0	25.0	1		02/10/23 20:19		
2320B Alkalinity	Analytical	Method: SM 23	320B-2011						
<i>,</i>	•	lytical Services							
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		



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Date: 03/21/2023 02:17 AM

Sample: YAT-YGWA-21I	Lab ID:	Collected: 02/07/23 12:48			Received: 02	atrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	•	Method: EPA 3 ytical Services		1 1993					
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	



Project: Plant Yates Pooled Upgradient

Date: 03/21/2023 02:17 AM

Sample: YAT-YGWA-17S	Lab ID:	92651382008	Collecte	ed: 02/07/23	3 11:16	Received: 02/	08/23 09:00 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	Client				1		03/03/23 11:12		
Collected By	Jake				1		03/03/23 11:12		
Sellistica By	Swanson				•		00/00/20 11:12		
Collected Date	02/07/23				1		03/03/23 11:12		
Collected Time	11:16				1		03/03/23 11:12		
Н	5.47	Std. Units			1		03/03/23 11:12		
6010D ATL ICP	Analytical	Method: EPA 6	010D Pre	paration Met	hod: EF	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, G	SA.				
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 6	020B Pre	paration Met	hod: EF	PA 3005A			
	-	lytical Services							
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			
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	
₋ead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 19:05	7439-92-1	
_ithium	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	
Γhallium	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 7	470A Prep	paration Met	hod: EF	PA 7470A			
•	Pace Ana	lytical Services	- Peachtre	e Corners, G	βA				
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 25	540C-2015						
	-	lytical Services			SA .				
Total Dissolved Solids	78.0	mg/L	25.0	25.0	1		02/13/23 11:02		
2320B Alkalinity	Analytical	Method: SM 23	320B-2011						
,	•	lytical Services							
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		



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Date: 03/21/2023 02:17 AM

Sample: YAT-YGWA-17S	Lab ID:	92651382008	Collected	d: 02/07/23	11:16	Received: 02	2/08/23 09:00 Ma	atrix: Water	
Davasatava	Daguita	Llaita	Report	MDI	DE	Duananad	A a l a -l	CACNE	0
Parameters — — — — — — — — — — — — — — — — — — —	Results	Units	Limit	MDL	DF_	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	00.0 Rev 2.	1 1993					
	Pace Anal	ytical 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	



Project: Plant Yates Pooled Upgradient

Date: 03/21/2023 02:17 AM

Sample: YAT-YGWA-18S	Lab ID:	92651382009	Collecte	ed: 02/07/23	3 13:48	Received: 02/	08/23 09:00 Ma	atrix: Water	
			Report						
Parameters	Results	Units -	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	Client				1		03/03/23 11:14		
Collected By	Jake				1		03/03/23 11:14		
Solicoted By	Swanson				•		00/00/20 11:11		
Collected Date	02/07/23				1		03/03/23 11:14		
Collected Time	13:48				1		03/03/23 11:14		
Н	5.03	Std. Units			1		03/03/23 11:14		
010D ATL ICP	Analytical	Method: EPA 6	010D Prep	paration Met	hod: EF	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, G	SA.				
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 6	020B Prer	paration Met	hod: EF	PA 3005A			
	-	lytical Services							
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		
Barium	0.012	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 19:11		
Beryllium	0.000071J	mg/L	0.00050	0.000054	1	02/20/23 17:00			
Boron	ND	mg/L	0.040	0.0086	1		02/21/23 19:11		
Cadmium	ND	mg/L	0.00050	0.00011	1		02/21/23 19:11		
Chromium	0.0016J	mg/L	0.0050	0.0011	1	02/20/23 17:00			
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 19:11		
_ead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 19:11		
Lithium	0.0012J	mg/L	0.030	0.00073	1	02/20/23 17:00			
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00			
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00			
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 7	470A Prer	paration Met	hod: FF	PA 7470A			
470 meroury	-	lytical Services				7.7.17.07.			
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 25	540C-2015						
LUTUU TURAI DISSUIVER SUIRIS	-	llytical Services			SA.				
Fotal Dissolved Solids	55.0	mg/L	25.0	25.0	1		02/13/23 11:02		
		-		20.0	•		12, 10, 20 11.02		
2320B Alkalinity	•	Method: SM 23							
		llytical Services							
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		



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Date: 03/21/2023 02:17 AM

Sample: YAT-YGWA-18S	Lab ID:	92651382009	Collected	d: 02/07/23	13:48	Received: 02	2/08/23 09:00 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL .	DF_	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	00.0 Rev 2.	1 1993					
·	Pace Anal	ytical 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	



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Date: 03/21/2023 02:17 AM

Sample: YAT-YGWA-18I	Lab ID:	92651382010	Collecte	ed: 02/07/23	3 12:31	Received: 02/	08/23 09:00 Ma	atrix: Water	
			Report						
Parameters	Results _	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	-	lytical Services	- Charlotte						
Performed by	Client				1		03/03/23 11:16		
Collected By	Jake				1		03/03/23 11:16		
Collected Date	Swanson 02/07/23				1		03/03/23 11:16		
Collected Time	12:31				1		03/03/23 11:16		
oH	6.00	Std. Units			1		03/03/23 11:16		
	Analytical		010D Bros	acration Mot	had: El	24 20104			
6010D ATL ICP	•	Method: EPA 6  lytical Services				A 3010A			
Potassium	0.96	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 17:29		
Sodium	12.6	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 17:29		
Calcium Magnesium	5.5 3.1	mg/L mg/L	1.0 0.050	0.12 0.012	1 1	02/20/23 17:00 02/20/23 17:00	02/21/23 17:29 02/21/23 17:29		
wagnesium		· ·					02/21/23 17.29	1439-93-4	
6020 MET ICPMS	-	Method: EPA 6				PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 17:00	02/21/23 19:17	7440-36-0	
rsenic	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	
.ead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 19:17	7439-92-1	
ithium	0.0030J	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 19:17	7439-93-2	
Nolybdenum	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	
-hallium	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 7	470A Prer	paration Met	hod: EF	PA 7470A			
•	-	lytical Services							
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 25	40C-2015						
	-	lytical Services		e Corners, G	SA.				
Total Dissolved Solids	96.0	mg/L	25.0	25.0	1		02/13/23 11:02		
2320B Alkalinity	Analytical	Method: SM 23	20B-2011						
•	-	lytical Services							
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		



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Date: 03/21/2023 02:17 AM

Sample: YAT-YGWA-18I	Lab ID:	92651382010	Collected	d: 02/07/23	3 12:31	Received: 02	2/08/23 09:00 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	00.0 Rev 2.	1 1993		· <u>- · · · · · · · · · · · · · · · · · ·</u>			
	Pace Anal	ytical 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	



Project: Plant Yates Pooled Upgradient

Date: 03/21/2023 02:17 AM

Pace Project No.: 92651382									
Sample: YAT-YGWA-39	Lab ID:	92651382011	Collecte	ed: 02/07/23	16:15	Received: 02/	08/23 09:00 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL .	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	Client				1		03/03/23 11:17		
Collected By	Jake				1		03/03/23 11:17		
Collected Date	Swanson 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 6	8010D Prei	naration Met	hod: FF	PA 3010A			
SO TOD ATE IOI	•	lytical Services				71001071			
Datasaissa				•		00/00/00 47 00	00/04/00 47.04	7440.00.7	
Potassium	6.6	mg/L	0.20	0.15	1	02/20/23 17:00			
Sodium	28.1	mg/L	1.0	0.58	1	02/20/23 17:00			
Calcium	16.1	mg/L	1.0	0.12	1	02/20/23 17:00			
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 6	6020B Prep	paration Met	hod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, G	βA				
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 7	7470A Prep	paration Met	nod: EF	PA 7470A			
•		lytical Services							
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 2	540C-2015						
	•	lytical Services			βA				
Total Dissolved Solids	224	mg/L	25.0	25.0	1		02/13/23 11:02		
2320B Alkalinity	Analytical	Method: SM 2	320B-2011						
ESESS AIRCHING		lytical Services							
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		



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Date: 03/21/2023 02:17 AM

Sample: YAT-YGWA-39	Lab ID:	92651382011	Collected	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	•	Method: EPA 3 ytical Services		1 1993						
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		



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Date: 03/21/2023 02:17 AM

Sample: YAT-YGWA-47	Lab ID:	92651382012	Collecte	ed: 02/08/23	3 17:02	Received: 02/	09/23 12:35 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
		lytical Services	- Charlotte						
Performed by	Client				1		03/03/23 14:32		
Collected By	Jake				1		03/03/23 14:32		
· . · . · . · . · . · . · . · . ·	Swanson								
Collected Date	02/08/23				1		03/03/23 14:32		
Collected Time	17:02	Ord Hair			1		03/03/23 14:32		
Н	5.22	Std. Units			1		03/03/23 14:32		
6010D ATL ICP	Analytical	Method: EPA 6	010D Prep	paration Met	hod: EF	PA 3010A			
	Pace Ana	lytical Services	<ul> <li>Peachtre</li> </ul>	e Corners, C	€A				
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 6	020B Prer	paration Met	hod: EF	PA 3005A			
		lytical Services							
antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 17:00	02/21/23 19:29	7440-36-0	
Arsenic	ND ND	mg/L	0.0050	0.00070	1	02/20/23 17:00	02/21/23 19:29		
Barium	0.031	mg/L	0.0050	0.00067	1	02/20/23 17:00			
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00			
Boron	0.011J	mg/L	0.040	0.0086	1	02/20/23 17:00			
Cadmium	0.00032J	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 19:29		
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 19:29		
Cobalt	0.0011J	mg/L	0.0050	0.00039	1	02/20/23 17:00			
.ead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00			
ithium	0.0037J	mg/L	0.030	0.00073	1	02/20/23 17:00			
Molybdenum	0.00370 ND	mg/L	0.010	0.00073	1	02/20/23 17:00			
Selenium	ND ND	mg/L	0.0050	0.00074	1	02/20/23 17:00	02/21/23 19:29		
Fhallium	ND ND	mg/L	0.0030	0.0014	1	02/20/23 17:00			
		_					02/21/20 10:20	7440 20 0	
7470 Mercury	-	Method: EPA 7				A 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, G	iΑ				
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 25	40C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, G	€A				
otal Dissolved Solids	141	mg/L	25.0	25.0	1		02/14/23 12:04		
2320B Alkalinity	Analytical	Method: SM 23	20B-2011						
~ • <b>y</b>	•	lytical Services							
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		



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Date: 03/21/2023 02:17 AM

Sample: YAT-YGWA-47	Lab ID:	92651382012	Collecte	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	•	Method: EPA 3 ytical Services		1 1993							
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			



Project: Plant Yates Pooled Upgradient

Date: 03/21/2023 02:17 AM

Sample: YAT-YGWA-30I	Lab ID:	92651382013	Collecte	ed: 02/08/23	3 15:10	Received: 02/	09/23 12:35 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	Client				1		03/03/23 14:39		
Collected By	Jake				1		03/03/23 14:39		
	Swanson				•				
Collected Date	02/08/23				1		03/03/23 14:39		
Collected Time	15:10				1		03/03/23 14:39		
Н	6.43	Std. Units			1		03/03/23 14:39		
6010D ATL ICP	Analytical	Method: EPA 6	010D Prep	paration Met	hod: EF	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, G	βA				
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 6	020B Pred	paration Met	hod: EF	PA 3005A			
	•	lytical Services	-						
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			
Barium	0.0066	mg/L	0.0050	0.00067	1	02/20/23 17:00			
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00			
Boron	ND	mg/L	0.040	0.0086	1		02/21/23 19:35		
Cadmium	ND	mg/L	0.00050	0.00011	1		02/21/23 19:35		
Chromium	0.0021J	mg/L	0.0050	0.0011	1		02/21/23 19:35		
Cobalt	0.0031J	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 19:35	7440-48-4	
_ead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00			
ithium	0.0011J	mg/L	0.030	0.00073	1		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			
Γhallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00			
7470 Mercury	Analytical	Method: EPA 7	470A Prer	naration Met	nod: FF	PA 7470A			
470 Merodry	-	lytical Services				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
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 25	540C-2015						
LUTUU TULAI DISSUIVEU SUIIUS	-	lytical Services		e Corners G	ìΑ				
Total Dissolved Solids		•		25.0	1		02/14/22 12:05		
	43.0	mg/L	25.0	25.0	1		02/14/23 12:05		
2320B Alkalinity	•	Method: SM 23							
	Pace Ana	lytical 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		



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Date: 03/21/2023 02:17 AM

Sample: YAT-YGWA-30I	Lab ID:	92651382013	Collected	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	•	Method: EPA 3 ytical Services		1 1993							
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			



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Date: 03/21/2023 02:17 AM

Sample: YAT-YGWA-14S	Lab ID:	92651382014	Collecte	ed: 02/08/23	13:50	Received: 02/	09/23 12:35 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	-	ytical Services	- Charlotte	)					
Performed by	Client				1		03/03/23 14:54		
Collected By	Jake				1		03/03/23 14:54		
- W	Swanson								
Collected Date	02/08/23				1		03/03/23 14:54		
Collected Time oH	13:50 5.39	Std. Units			1 1		03/03/23 14:54 03/03/23 14:54		
) I	3.39	Stu. Offits			'		03/03/23 14.34		
6010D ATL ICP	Analytical	Method: EPA 6	010D Pre	paration Met	hod: EF	PA 3010A			
	Pace Anal	ytical Services	- Peachtre	e Corners, C	A				
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 6	020B Prei	paration Met	hod: EP	A 3005A			
	-	ytical Services							
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 17:00	02/21/23 19:41	7440 26 0	
Arsenic	ND ND	mg/L	0.0050	0.00078	1	02/20/23 17:00			
Barium	0.0089	mg/L	0.0050	0.0022	1	02/20/23 17:00			
Beryllium	0.0003 0.00022J	mg/L	0.0050	0.00007	1	02/20/23 17:00			
Boron	0.015J	mg/L	0.040	0.0086	1	02/20/23 17:00			
Cadmium	ND	mg/L	0.00050	0.00011	1		02/21/23 19:41		
Chromium	ND ND	mg/L	0.0050	0.0011	1	02/20/23 17:00			
Cobalt	ND ND	mg/L	0.0050	0.00039	1		02/21/23 19:41		
_ead	ND ND	mg/L	0.0030	0.00039	1	02/20/23 17:00			
Leau Lithium	ND ND	mg/L	0.030	0.00039	1		02/21/23 19:41		
	ND ND	-	0.030	0.00073	1		02/21/23 19:41		
Molybdenum Selenium	ND ND	mg/L	0.010	0.00074	1				
Selenium Fhallium	ND ND	mg/L mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 19:41		
mamum		•					02/21/23 19.41	7440-26-0	
7470 Mercury	Analytical	Method: EPA 7	470A Prep	paration Met	nod: EP	A 7470A			
	Pace Anal	ytical Services	- Peachtre	e Corners, C	βA				
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 25	40C-2015						
	Pace Anal	ytical Services	- Peachtre	e Corners, C	βA				
Total Dissolved Solids	56.0	mg/L	25.0	25.0	1		02/14/23 12:06		
2320B Alkalinity	Analytical	Method: SM 23	20B-2011						
•	-	ytical Services							
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		
	110	9, -	0.0	0.0	•		52, 11,20 10.07		



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Date: 03/21/2023 02:17 AM

Sample: YAT-YGWA-14S	Lab ID:	92651382014	Collected	d: 02/08/23	13:50	Received: 02	2/09/23 12:35 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	•	Method: EPA 3 ytical Services		1 1993					
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	



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Date: 03/21/2023 02:17 AM

Sample: YAT-YGWA-3I	Lab ID:	92651382015	Collecte	ed: 02/08/23	3 10:00	Received: 02/	09/23 12:35 N	latrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	-	lytical Services	- Charlotte						
Performed by	Client				1		03/03/23 14:55	:	
Collected By	Jake				1		03/03/23 14:55		
Soliceted By	Swanson				'		03/03/23 14.30	,	
Collected Date	02/08/23				1		03/03/23 14:55	5	
Collected Time	10:00				1		03/03/23 14:55	5	
Н	7.73	Std. Units			1		03/03/23 14:55	5	
010D ATL ICP	Analytical	Method: EPA 6	010D Pre	paration Me	thod: EF	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	ЭΑ				
Potassium	5.3	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 18:03	3 7440-09-7	
Sodium	9.4	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 18:03		
Calcium	23.3	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 18:03		
Magnesium	5.4	mg/L	0.050	0.012	1	02/20/23 17:00			
6020 MET ICPMS	Analytical	Method: EPA 6	020B Prei	paration Met	thod: EF	A 3005A			
	•	lytical Services							
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	
ead	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	
Γhallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 19:47	7440-28-0	
470 Mercury	Analytical	Method: EPA 7	470A Prep	paration Met	hod: EP	A 7470A			
•	Pace Ana	lytical Services	- Peachtre	e Corners, 0	ЭΑ				
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 25	540C-2015						
		lytical Services			ЭΑ				
Total Dissolved Solids	145	mg/L	25.0	25.0	1		02/14/23 12:07	,	
2320B Alkalinity	Analytical	Method: SM 23	320B-2011						
•	-	lytical Services							
Alkalinity, Bicarbonate (CaCO3)	92.2	mg/L	5.0	5.0	1		02/17/23 13:43	3	
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		



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Date: 03/21/2023 02:17 AM

Sample: YAT-YGWA-3I	Lab ID:	Lab ID: 92651382015			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	•	Method: EPA 3 ytical Services		.1 1993						
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		



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Date: 03/21/2023 02:17 AM

Sample: YAT-YGWA-3D	Lab ID:	92651382016	Collecte	d: 02/08/23	11:40	Received: 02/	09/23 12:35 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	-	lytical Services	- Charlotte						
Performed by	Client				1		03/03/23 14:56		
Collected By	Jake				1		03/03/23 14:56		
- W	Swanson								
Collected Date	02/08/23				1		03/03/23 14:56		
Collected Time oH	11:40 7.88	Std. Units			1 1		03/03/23 14:56 03/03/23 14:56		
) I	7.00	ota. Offits			ı		03/03/23 14.30		
0010D ATL ICP	•	Method: EPA 6				PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, G	βA				
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 6	020B Pred	aration Met	hod: EF	PA 3005A			
	-	lytical Services							
Antimony		•		•		02/20/22 47:00	02/24/22 20:05	7440.26.0	
Antimony Arsenic	ND <b>0.0030J</b>	mg/L mg/L	0.0030 0.0050	0.00078 0.0022	1 1	02/20/23 17:00 02/20/23 17:00	02/21/23 20:05 02/21/23 20:05		
Barium	0.00303 0.0048J	mg/L	0.0050	0.0022	1	02/20/23 17:00			
Beryllium	0.00403 ND	mg/L	0.0050	0.00007	1	02/20/23 17:00			
Boron	ND ND	mg/L	0.040	0.000034	1	02/20/23 17:00			
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 20:05		
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 20:05		
Cobalt	ND ND	mg/L	0.0050	0.00039	1	02/20/23 17:00			
ead.	ND ND	mg/L	0.0030	0.00039	1	02/20/23 17:00			
ithium	0.023J	mg/L	0.030	0.00003	1	02/20/23 17:00			
Molybdenum	0.012	mg/L	0.030	0.00073	1	02/20/23 17:00			
Selenium	ND	mg/L	0.0050	0.00074	1	02/20/23 17:00			
Fhallium	ND ND	mg/L	0.0030	0.00014	1	02/20/23 17:00			
		_							
7470 Mercury	-	Method: EPA 7				PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, G	iΑ				
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 25	40C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, G	βA				
otal Dissolved Solids	144	mg/L	25.0	25.0	1		02/14/23 12:07		
2320B Alkalinity	Analytical	Method: SM 23	20B-2011						
- · · · ·	-	lytical Services							
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		



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Date: 03/21/2023 02:17 AM

Sample: YAT-YGWA-3D	Lab ID:	Lab ID: 92651382016			11:40	Received: 02	atrix: Water		
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	•	Method: EPA 3 ytical Services		1 1993					
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	



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Date: 03/21/2023 02:17 AM

Sample: YAT-YGWA-40	Lab ID:	92651382017	Collecte	ed: 02/08/23	3 12:02	Received: 02/	09/23 12:35 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	-	ytical Services	- Charlotte						
Performed by	Client				1		03/03/23 14:57		
Collected By	Jake				1		03/03/23 14:57		
·	Swanson								
Collected Date	02/08/23				1		03/03/23 14:57		
Collected Time	12:02				1		03/03/23 14:57		
Н	5.71	Std. Units			1		03/03/23 14:57		
6010D ATL ICP	Analytical	Method: EPA 6	010D Prep	paration Met	hod: EF	PA 3010A			
	Pace Anal	ytical Services	- Peachtre	e Corners, G	<b>S</b> A				
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 6	020B Prer	paration Met	hod: EF	A 3005A			
	-	ytical Services							
antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 17:00	02/21/23 20:11	7440.26.0	
Arsenic	ND ND	mg/L	0.0050	0.00076	1	02/20/23 17:00	02/21/23 20:11		
Barium	0.037	mg/L	0.0050	0.0022	1	02/20/23 17:00			
Beryllium	0.00026J	mg/L	0.0050	0.00007	1	02/20/23 17:00			
Boron	0.057	mg/L	0.040	0.0086	1	02/20/23 17:00			
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 20:11		
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 20:11		
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00			
.ead	ND ND	mg/L	0.0030	0.00089	1	02/20/23 17:00			
ithium	0.00074J	mg/L	0.030	0.00039	1	02/20/23 17:00			
Nolybdenum	0.000743 ND	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 20:11		
•		•					02/21/23 20:11		
Selenium Thallium	ND ND	mg/L mg/L	0.0050 0.0010	0.0014 0.00018	1 1	02/20/23 17:00 02/20/23 17:00	02/21/23 20:11		
Hallium		_					02/21/23 20.11	7440-20-0	
7470 Mercury	-	Method: EPA 7				A 7470A			
	Pace Anal	ytical Services	- Peachtre	e Corners, C	BA .				
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 25	40C-2015						
	Pace Anal	ytical Services	- Peachtre	e Corners, G	SA.				
otal Dissolved Solids	115	mg/L	25.0	25.0	1		02/14/23 12:08		
2320B Alkalinity	Analytical	Method: SM 23	20B-2011						
~ • <b>,</b>	-	ytical Services							
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		



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Date: 03/21/2023 02:17 AM

Sample: YAT-YGWA-40	Lab ID:	92651382017	Collecte	d: 02/08/23	3 12:02	Received: 02	2/09/23 12:35 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	00.0 Rev 2	1 1993					
	Pace Anal	ytical 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	



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Date: 03/21/2023 02:17 AM

Sample: YAT-YGWA-4I	Lab ID:	92651382018	Collecte	ed: 02/09/23	3 09:55	Received: 02/	10/23 14:00 M	latrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Parformed by	Client				1		03/03/23 14:57	,	
Performed by Collected By	Jake				1		03/03/23 14:57		
Collected by	Swanson				•		03/03/23 14.37		
Collected Date	02/09/23				1		03/03/23 14:57	•	
Collected Time	09:55				1		03/03/23 14:57	•	
ρΗ	6.23	Std. Units			1		03/03/23 14:57	•	
6010D ATL ICP	Analytical	Method: EPA 6	010D Pre	paration Met	hod: EF	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	€A				
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			
Calcium	9.6	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 18:17		
Magnesium	5.3	mg/L	0.050	0.012	1	02/20/23 17:00			
6020 MET ICPMS	Analytical	Method: EPA 6	020B Pro	naration Met	hod: FF	2Δ 3005Δ			
NOZO WIET ICI WIS	-	lytical Services				A 3003A			
		,		•					
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 17:00			
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 20:17		
Barium	0.014	mg/L	0.0050	0.00067	1	02/20/23 17:00			
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00			
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00			
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00			
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 20:17		
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00			
_ead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00			
Lithium	0.014J	mg/L	0.030	0.00073	1	02/20/23 17:00			
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	
470 Mercury	Analytical	Method: EPA 7	470A Pre	paration Met	hod: EP	A 7470A			
•	Pace Ana	lytical Services	- Peachtre	e Corners, C	SA.				
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 25	540C-2015						
		lytical Services			<b>S</b> A				
Total Dissolved Solids	124	mg/L	25.0	25.0	1		02/15/23 18:40	)	
2320B Alkalinity	Analytical	Method: SM 23	320B-2011						
~ • <b>,</b>	-	lytical Services							
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		



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Date: 03/21/2023 02:17 AM

Sample: YAT-YGWA-4I	Lab ID:	92651382018	Collecte	d: 02/09/23	3 09:55	Received: 02	2/10/23 14:00 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	00.0 Rev 2	.1 1993					
·	Pace Anal	ytical 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	



Project: Plant Yates Pooled Upgradient

Date: 03/21/2023 02:17 AM

Sample: YAT-YGWA-5I	Lab ID:	92651382019	Collecte	d: 02/09/23	11:26	Received: 02/	10/23 14:00 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL .	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	Client				1		03/03/23 14:58		
Collected By	Jake				1		03/03/23 14:58		
201100:00 29	Swanson				•		00/00/20 11:00		
Collected Date	02/09/23				1		03/03/23 14:58		
Collected Time	11:26				1		03/03/23 14:58		
ρΗ	5.90	Std. Units			1		03/03/23 14:58		
010D ATL ICP	Analytical	Method: EPA 6	010D Prep	paration Met	hod: EF	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, G	iΑ				
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	
020 MET ICPMS	Analytical	Method: EPA 6	020B Pred	paration Met	nod: EF	PA 3005A			
V=V= 1 1010	-	lytical Services							
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			
Barium	0.019	mg/L	0.0050	0.00067	1	02/20/23 17:00			
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00			
Boron	ND	mg/L	0.040	0.0086	1		02/21/23 20:23		
Cadmium	ND	mg/L	0.00050	0.00011	1		02/21/23 20:23		
Chromium	0.0012J	mg/L	0.0050	0.0011	1		02/21/23 20:23		
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 20:23	7440-48-4	
_ead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00			
ithium	0.0036J	mg/L	0.030	0.00073	1	02/20/23 17:00		7439-93-2	
Nolybdenum	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	
470 Mercury	Analytical	Method: EPA 7	470A Prer	paration Met	nod: FF	PA 7470A			
,	-	lytical Services							
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 25	540C-2015						
io ioo iolai Biocoiroa comac	-	lytical Services		e Corners, G	iΑ				
Total Dissolved Solids	59.0	mg/L	25.0	25.0	1		02/15/23 18:40		
2320B Alkalinity		Method: SM 23							
JZVD AIRAIIIIILY	•	llytical Services							
Ukalinity Ricarhonato (CaCO2)	26.4		5.0	5.0	1		02/17/23 18:31		
Alkalinity, Bicarbonate (CaCO3)		mg/L		5.0	1				
Alkalinity,Carbonate (CaCO3)	ND <b>26.4</b>	mg/L mg/L	5.0	5.0	1		02/17/23 18:31		



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Date: 03/21/2023 02:17 AM

Sample: YAT-YGWA-5I	Lab ID:	92651382019	Collected	d: 02/09/23	11:26	Received: 02	2/10/23 14:00 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	•	Method: EPA 3		1 1993					
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	



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

I ARODATORY CONTROL SAMPLE.

Date: 03/21/2023 02:17 AM

QC Batch: 757001 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92651382001, 92651382002, 92651382003, 92651382004, 92651382005, 92651382006, 92651382007,

92651382008, 92651382009, 92651382010, 92651382011, 92651382012, 92651382013, 92651382014,

92651382015, 92651382016, 92651382017, 92651382018, 92651382019

METHOD BLANK: 3932792 Matrix: Water

Associated Lab Samples: 92651382001, 92651382002, 92651382003, 92651382004, 92651382005, 92651382006, 92651382007,

92651382008, 92651382009, 92651382010, 92651382011, 92651382012, 92651382013, 92651382014,

92651382015, 92651382016, 92651382017, 92651382018, 92651382019

		Blank	Reporting			
Parameter	Units	Result	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	ma/L	ND	1.0	0.58	02/21/23 15:56	

LABORATORT CONTROL SAMPLE.	3932193	Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Calcium	mg/L		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 S	SPIKE DUPI	LICATE: 3932	794		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

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



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Date: 03/21/2023 02:17 AM

QC Batch: 756999 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92651382001, 92651382002, 92651382003, 92651382004, 92651382005, 92651382006, 92651382007,

92651382008, 92651382009, 92651382010, 92651382011, 92651382012, 92651382013, 92651382014,

92651382015, 92651382016, 92651382017, 92651382018, 92651382019

METHOD BLANK: 3932782 Matrix: Water

Associated Lab Samples: 92651382001, 92651382002, 92651382003, 92651382004, 92651382005, 92651382006, 92651382007,

92651382008, 92651382009, 92651382010, 92651382011, 92651382012, 92651382013, 92651382014,

92651382015, 92651382016, 92651382017, 92651382018, 92651382019

		Blank	Reporting			
Parameter	Units	Result	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					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% 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	

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



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Date: 03/21/2023 02:17 AM

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 S	PIKE DUPLIC	CATE: 3932	784		3932785							
			MS	MSD								
	9	2651382007	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	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

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



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Date: 03/21/2023 02:17 AM

QC Batch: 757772 Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92651382001, 92651382002, 92651382003, 92651382004, 92651382005, 92651382006, 92651382007,

92651382008, 92651382009, 92651382010

METHOD BLANK: 3936482 Matrix: Water

Associated Lab Samples: 92651382001, 92651382002, 92651382003, 92651382004, 92651382005, 92651382006, 92651382007,

92651382008, 92651382009, 92651382010

 Parameter
 Units
 Blank Reporting Result
 Reporting Limit
 MDL
 Analyzed
 Qualifiers

 Mercury
 mg/L
 ND
 0.00020
 0.00013
 02/24/23 11:05

LABORATORY CONTROL SAMPLE: 3936483

LCS LCS % Rec Spike Units Result % Rec Limits Qualifiers Parameter Conc. Mercury mg/L 0.0025 0.0023 92 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3936484 3936485 MSD MS 92651415001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD RPD Qual ND 0.0025 0.0021 20 Mercury 0.0025 0.0021 83 84 75-125 mg/L

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



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

758311

QC Batch: QC Batch Method: EPA 7470A Analysis Method:

EPA 7470A

Analysis Description:

7470 Mercury

Laboratory:

Pace Analytical Services - Peachtree Corners, GA

92651382011, 92651382012 Associated Lab Samples:

METHOD BLANK: Associated Lab Samples:

92651382011, 92651382012

Matrix: Water

Blank Result Reporting Limit

MDL

Analyzed

Qualifiers

Mercury

Units mg/L

Units

mg/L

ND

0.00020

0.00013

02/28/23 08:04

80-120

LABORATORY CONTROL SAMPLE: Parameter

Parameter

3939039

Spike Conc.

0.0025

LCS Result

0.0024

LCS % Rec % Rec Limits

Qualifiers

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

3939040

MS

0.0025

MSD

MS

3939041

MS

97

MSD

% Rec

Max

Mercury

92650181021 Units Result

mg/L

ND

Spike Conc.

Result

MSD Result

% Rec

% Rec 93

**RPD** Limits

RPD

Qual

Date: 03/21/2023 02:17 AM

Mercury

Parameter

Spike Conc. 0.0025

0.0023

0.0023

92

75-125

20

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



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Date: 03/21/2023 02:17 AM

QC Batch: 758312 Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92651382013, 92651382014, 92651382015, 92651382016, 92651382017, 92651382018, 92651382019

METHOD BLANK: 3939045 Matrix: Water

Associated Lab Samples: 92651382013, 92651382014, 92651382015, 92651382016, 92651382017, 92651382018, 92651382019

Blank Reporting
Parameter Units Result Limit MDL Analyzed Qualifiers

Mercury mg/L ND 0.00020 0.00013 02/28/23 10:25

LABORATORY CONTROL SAMPLE: 3939046

Spike LCS LCS % Rec % Rec Limits Qualifiers Parameter Units Conc. Result Mercury 0.0025 0.0026 102 80-120 mg/L

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3939047 3939048

MSD MS 92651576003 Spike Spike MS MSD MS MSD % Rec Max Parameter Units **RPD** RPD Result Conc. Conc. Result Result % Rec % Rec Limits Qual Mercury mg/L ND 0.0025 0.0025 0.0023 0.0023 89 89 75-125 0 20

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



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

Blank Reporting

ParameterUnitsResultLimitMDLAnalyzedQualifiersTotal Dissolved Solidsmg/LND25.025.002/10/23 20:11

LABORATORY CONTROL SAMPLE: 3924152

Spike LCS LCS % Rec Conc. % Rec Limits Qualifiers Parameter Units Result **Total Dissolved Solids** 404 101 80-120 mg/L

\_\_\_\_\_

Parameter Units Pesult Result RPD Qualifiers

Total Dissolved Solids mg/L 98.0 99.0 1 10

SAMPLE DUPLICATE: 3924154

Date: 03/21/2023 02:17 AM

SAMPLE DUPLICATE: 3924153

92651189001 Dup Max RPD RPD Parameter Units Result Result Qualifiers Total Dissolved Solids 3260 mg/L 3540 8 10



Plant Yates Pooled Upgradient Project:

Pace Project No.: 92651382

QC Batch: 755432 Analysis Method: SM 2540C-2015

QC Batch Method: SM 2540C-2015 Analysis Description: 2540C Total Dissolved Solids

> Laboratory: Pace Analytical Services - Peachtree Corners, GA

> > LCS

% Rec

Associated Lab Samples: 92651382008, 92651382009, 92651382010, 92651382011

METHOD BLANK: Matrix: Water

Associated Lab Samples: 92651382008, 92651382009, 92651382010, 92651382011

> Blank Reporting

MDL Qualifiers Parameter Units Result Limit Analyzed

LCS

Total Dissolved Solids ND 25.0 25.0 02/13/23 11:02 mg/L

LABORATORY CONTROL SAMPLE: 3924926

Spike Conc. % Rec Limits Qualifiers Parameter Units Result **Total Dissolved Solids** 389 97 80-120 mg/L

SAMPLE DUPLICATE: 3924927

92651382008 Dup Max

Parameter Units Result Result **RPD RPD** Qualifiers 78.0 **Total Dissolved Solids** 8 mg/L 72.0 10

SAMPLE DUPLICATE: 3924928

Date: 03/21/2023 02:17 AM

92650182022 Dup Max RPD RPD Parameter Units Result Result Qualifiers Total Dissolved Solids 489 mg/L 496 1 10



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

Blank Reporting
Parameter Units Result Limit MDL Analyzed Qualifiers

Total Dissolved Solids mg/L ND 25.0 25.0 02/14/23 11:56

Total Dissolved Solids mg/L ND 25.0 25.0 02/14/23 1

LABORATORY CONTROL SAMPLE: 3926330

Spike LCS LCS % Rec Conc. % Rec Limits Qualifiers Parameter Units Result **Total Dissolved Solids** 396 99 80-120 mg/L

SAMPLE DUPLICATE: 3926331

92651580013 Dup Max Parameter Units Result Result **RPD RPD** Qualifiers 190 **Total Dissolved Solids** 7 mg/L 203 10

SAMPLE DUPLICATE: 3926332

Date: 03/21/2023 02:17 AM

92651382012 Dup Max RPD RPD Parameter Units Result Result Qualifiers Total Dissolved Solids 141 2 mg/L 138 10



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

QC Batch: 755997 Analysis Method: SM 2540C-2015

QC Batch Method: SM 2540C-2015 Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92651382018, 92651382019

METHOD BLANK: 3927731 Matrix: Water

Associated Lab Samples: 92651382018, 92651382019

Blank Reporting
Parameter Units Result Limit MDL Analyzed Qualifiers

Total Dissolved Solids mg/L ND 25.0 25.0 02/15/23 18:35

LABORATORY CONTROL SAMPLE: 3927732

Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units **Total Dissolved Solids** 400 384 96 80-120 mg/L

SAMPLE DUPLICATE: 3927733

92651576013 Dup Max Parameter Units Result Result **RPD RPD** Qualifiers 246 **Total Dissolved Solids** mg/L 153 47 10

SAMPLE DUPLICATE: 3927734

Date: 03/21/2023 02:17 AM

92651580022 Dup Max RPD RPD Parameter Units Result Result Qualifiers Total Dissolved Solids 582 mg/L 676 15 10



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Alkalinity, Total as CaCO3

Date: 03/21/2023 02:17 AM

mg/L

65.4

QC Batch: 755796 Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92651382001, 92651382002

METHOD BLANK: 3926730 Matrix: Water

Associated Lab Samples: 92651382001, 92651382002

			Blar	ık	Reporting							
Parameter		Units	Resi	ult	Limit	MDI	L	Analyzed	Qı	ualifiers	,	
Alkalinity, Total as CaCO3		mg/L		ND	5	.0	5.0	02/15/23 14	:32		_	
Alkalinity, Bicarbonate (CaCO	3)	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 SA	AMPLE:	3926731										
			Spike	L	CS	LCS	%	6 Rec				
Parameter		Units	Conc.	Re	sult	% Rec	L	imits	Qualifiers			
Alkalinity, Total as CaCO3		mg/L	5	0	49.4	99	9	80-120		_		
LABORATORY CONTROL SA	AMPLE:	3926732										
			Spike	L	CS	LCS	%	6 Rec				
Parameter		Units	Conc.	Re	sult	% Rec	L	imits	Qualifiers	_		
Alkalinity, Total as CaCO3		mg/L	5	0	52.6	10	5	80-120				
MATRIX SPIKE & MATRIX SI	PIKE DUP	PLICATE: 3926	733		392673	4						
			MS	MSD								
5 .		92651382001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Red	C % Rec — ———	Limits	RPD	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 SI	PIKE DUP	PLICATE: 3926	735		3926736	6						
			MS	MSD								
_		92651382002	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Red	c % Rec	Limits	RPD	RPD	Qual

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

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#### **REPORT OF LABORATORY ANALYSIS**

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Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Date: 03/21/2023 02:17 AM

QC Batch: 755797 Analysis Method: SM 2320B-2011 QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity

> Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92651382003, 92651382004, 92651382005, 92651382006, 92651382007, 92651382008, 92651382009,

92651382010, 92651382011

METHOD BLANK: 3926737 Matrix: Water

92651382003, 92651382004, 92651382005, 92651382006, 92651382007, 92651382008, 92651382009, 92651382011 Associated Lab Samples:

(	92651382	010, 9265138201	1									
			Blar	nk	Reporting							
Parameter		Units	Res	ult	Limit	MDI	L	Analyze	ed Qu	ualifiers	i	
Alkalinity, Total as CaCO3		mg/L	<del>_</del>	ND —	5.	0	5.0	02/15/23 1	8:18			
Alkalinity, Bicarbonate (CaCO	3)	mg/L		ND	5.		5.0	02/15/23 1				
Alkalinity, Carbonate (CaCO3)	,	mg/L		ND	5.	0	5.0	02/15/23 1	8:18			
LABORATORY CONTROL SA	AMPLE:	3926738										
			Spike	LC	S	LCS	9	% Rec				
Parameter		Units	Conc.	Res	sult	% Rec	L	_imits	Qualifiers			
Alkalinity, Total as CaCO3		mg/L	5	60	50.3	10	1	80-120				
LABORATORY CONTROL SA	AMPLE:	3926739										
			Spike	LC	S	LCS	9	% Rec				
Parameter		Units	Conc.	Res	sult	% Rec	L	_imits	Qualifiers			
Alkalinity, Total as CaCO3		mg/L	5	60	52.9	100	6	80-120				
MATRIX SPIKE & MATRIX SF	PIKE DUP	LICATE: 3926	740		3926741	<u> </u>						
			MS	MSD								
		92651415002	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Re	c % Rec	Limits	RPD	RPD	Qual
Alkalinity, Total as CaCO3	mg/L	ND	50	50	53.5	53.8	1	02 10	2 80-120	1	25	
MATRIX SPIKE & MATRIX SI	PIKE DUP	LICATE: 3926	742		3926743	3						
			MS	MSD								
		92651415003	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Re	c % Rec	Limits	RPD	RPD	Qual
Alkalinity, Total as CaCO3	mg/L	10.3	50	50	62.8	63.4	1	05 10	6 80-120	1	25	

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



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Date: 03/21/2023 02:17 AM

QC Batch: 756119 Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92651382012, 92651382013, 92651382014, 92651382015, 92651382016, 92651382017

METHOD BLANK: 3928501 Matrix: Water

			Blanl	k	Reporting								
Parameter		Units	Resu	lt	Limit	М	DL		Analyze	d Qı	ualifiers		
Alkalinity, Total as CaCO3		mg/L		ND	5	5.0		5.0	2/17/23 11	:43			
Alkalinity, Bicarbonate (CaCO	,	mg/L		ND		5.0			2/17/23 11	_			
Alkalinity, Carbonate (CaCO3)		mg/L		ND	5	5.0		5.0 0	)2/17/23 11	:43			
LABORATORY CONTROL SA	AMPLE:	3928502											
			Spike	L	CS	LCS		% F	Rec				
Parameter		Units	Conc.	Re	sult	% Rec		Lim	iits	Qualifiers	_		
Alkalinity, Total as CaCO3		mg/L	50	)	50.5	1	01		80-120				
LABORATORY CONTROL SA	AMPLE:	3928503											
			Spike		CS.	LCS		% F		0 ""			
Parameter		Units	Conc.	Re 	sult ——————	% Rec		Lim	iits —————	Qualifiers	_		
Alkalinity, Total as CaCO3		mg/L	50	)	51.4	1	03		80-120				
MATRIX SPIKE & MATRIX SF	PIKE DUP	LICATE: 3928	504		392850	)5							
			MS	MSD									
D	11-2-	92651771001	Spike	Spike	MS	MSD		MS	MSD	% Rec	000	Max	01
Parameter	Units	Result	Conc.	Conc.	Result	Result		6 Rec	% Rec	Limits	RPD ———	RPD	Qual
Alkalinity, Total as CaCO3	mg/L	219	50	50	262	2 271	l	86	10	4 80-120	3	25	
MATRIX SPIKE & MATRIX SF	PIKE DUP	LICATE: 3928	506		392850	)7							
			MS	MSD									
		92651771002	Spike	Spike	MS	MSD		MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	_ %	6 Rec	% Rec	Limits	RPD	RPD	Qual

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



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Alkalinity, Total as CaCO3

Date: 03/21/2023 02:17 AM

QC Batch: 756264 Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity

26.4

mg/L

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92651382018, 92651382019

METHOD BLANK: 3929037 Matrix: Water

Associated Lab Samples: 92651382018, 92651382019

Associated Lab Samples: 9	2651382	018, 9265138201	9									
Parameter		Units	Blar Resi		Reporting Limit	М	DL	Analyzed	d Qı	ualifiers	;	
Alkalinity, Total as CaCO3		mg/L		ND -	ŗ.	5.0	5.0	02/17/23 15	 i·34			
Alkalinity, Bicarbonate (CaCO3	3)	mg/L		ND		5.0	5.0	02/17/23 15				
Alkalinity, Carbonate (CaCO3)	,	mg/L		ND	5	5.0	5.0	02/17/23 15	:34			
LABORATORY CONTROL SA	MPLE:	3929038										
			Spike	L	CS	LCS	9	% Rec				
Parameter		Units	Conc.	Re	esult	% Rec		Limits	Qualifiers			
Alkalinity, Total as CaCO3		mg/L	5	0	50.9	1	02	80-120				
LABORATORY CONTROL SA	MPLE:	3929039										
			Spike	L	CS	LCS	g	% Rec				
Parameter		Units	Conc.	Re	esult	% Rec	1	Limits	Qualifiers			
Alkalinity, Total as CaCO3		mg/L	5	0	51.3	1	03	80-120				
MATRIX SPIKE & MATRIX SF	PIKE DUP	LICATE: 3929	040		392904	1						
			MS	MSD								
_		92651382018	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Re	c % Rec	Limits	RPD	RPD	Qual
Alkalinity, Total as CaCO3	mg/L	57.7	50	50	) 111	113	3 1	107 11 <sup>2</sup>	1 80-120	1	25	
MATRIX SPIKE & MATRIX SF	IKE DUP	LICATE: 3929	042		392904	3						
			MS	MSD								
_		92651382019	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Re	c % Rec	Limits	RPD	RPD	Qual

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

50

78.1

79.1

103

80-120

#### **REPORT OF LABORATORY ANALYSIS**

25



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Date: 03/21/2023 02:17 AM

QC Batch: 755105 Analysis Method: EPA 300.0 Rev 2.1 1993

QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92651382001, 92651382002, 92651382003, 92651382004, 92651382005, 92651382006, 92651382007,

 $92651382008,\,92651382009,\,92651382010,\,92651382011$ 

METHOD BLANK: 3923321 Matrix: Water

Associated Lab Samples: 92651382001, 92651382002, 92651382003, 92651382004, 92651382005, 92651382006, 92651382007,

92651382008, 92651382009, 92651382010, 92651382011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/10/23 20:14	
Fluoride	mg/L	ND	0.10	0.050	02/10/23 20:14	
Sulfate	mg/L	ND	1.0	0.50	02/10/23 20:14	

LABORATORY CONTROL SAMPLE:	3923322	Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% 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 SP	IKE DUPLI	CATE: 3923	3923324									
			MS	MSD								
		92651536005	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	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 SP	IKE DUPL	ICATE: 3923		3923326								
			MS	MSD								
		92651382010	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	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	

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



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Date: 03/21/2023 02:17 AM

QC Batch: 755595 Analysis Method: EPA 300.0 Rev 2.1 1993

QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92651382012, 92651382013, 92651382014

METHOD BLANK: 3925880 Matrix: Water

Associated Lab Samples: 92651382012, 92651382013, 92651382014

		Blank	Reporting			
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND 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 Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Chloride mg/L 50 51.1 102 90-110 Fluoride 2.5 mg/L 2.7 107 90-110 Sulfate mg/L 50 50.9 102 90-110

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3925882 3925883												
			MS	MSD								
		92651580015	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	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 SP	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3925884 3925885											
			MS	MSD								
		92651415007	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	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	

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



Project: Plant Yates Pooled Upgradient

LABORATORY CONTROL SAMPLE: 2025004

Date: 03/21/2023 02:17 AM

Pace Project No.: 92651382

QC Batch: 755597 Analysis Method: EPA 300.0 Rev 2.1 1993

QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92651382015, 92651382016, 92651382017

METHOD BLANK: 3925890 Matrix: Water

Associated Lab Samples: 92651382015, 92651382016, 92651382017

		Blank	Reporting			
Parameter	Units	Result	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	

LABORATORT CONTROL SAMPLE.	3923691					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% 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 SP	IKE DUPL	ICATE: 3925	892		3925893							
		92651382015	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	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 SP	IKE DUPL	ICATE: 3925	894		3925895						
			MS	MSD							
		92651745002	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	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

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



Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

QC Batch: 755672

Analysis Method:

EPA 300.0 Rev 2.1 1993

QC Batch Method: EPA 300.0 Rev 2.1 1993

Analysis Description: 300.0 IC Anions

Laboratory:

Pace Analytical Services - Asheville

Associated Lab Samples: 92651382018, 92651382019

METHOD BLANK: 3926089

Date: 03/21/2023 02:17 AM

Matrix: Water

Associated Lab Samples: 92651382018, 92651382019

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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					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% 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 SP	IKE DUPL	ICATE: 3926	091		3926092							
			MS	MSD								
		92651576004	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	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 SP	IKE DUPL	ICATE: 3926	093		3926094							
			MS	MSD								
		92651614002	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	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	

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



### **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**

Date: 03/21/2023 02:17 AM

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.



## **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Date: 03/21/2023 02:17 AM

2651382001 2651382002 2651382003 2651382004 2651382005 2651382006 2651382008 2651382009 2651382010 2651382011 2651382012 2651382013 2651382014 2651382015 2651382016 2651382017 2651382018 2651382019	YAT-YGWA-1I YAT-YGWA-1D YAT-YGWA-2I YAT-GWA-2 YAT-YGWA-5D YAT-YGWA-20S YAT-YGWA-21I YAT-YGWA-17S YAT-YGWA-18S YAT-YGWA-18I YAT-YGWA-39 YAT-YGWA-39 YAT-YGWA-30I YAT-YGWA-14S YAT-YGWA-14S YAT-YGWA-31 YAT-YGWA-3D YAT-YGWA-40				
2651382003 2651382004 2651382005 2651382006 2651382007 2651382009 2651382010 2651382011 2651382011 2651382012 2651382013 2651382014 2651382015 2651382016 2651382017 2651382018	YAT-YGWA-2I YAT-GWA-2 YAT-YGWA-5D YAT-YGWA-20S YAT-YGWA-21I YAT-YGWA-17S YAT-YGWA-18S YAT-YGWA-18I YAT-YGWA-39 YAT-YGWA-47 YAT-YGWA-30I YAT-YGWA-14S YAT-YGWA-3I YAT-YGWA-3D				
2651382004 2651382005 2651382006 2651382008 2651382009 2651382010 2651382011 2651382011 2651382012 2651382013 2651382014 2651382015 2651382016 2651382017 2651382018	YAT-GWA-2 YAT-YGWA-5D YAT-YGWA-20S YAT-YGWA-21I YAT-YGWA-17S YAT-YGWA-18S YAT-YGWA-18I YAT-YGWA-39 YAT-YGWA-47 YAT-YGWA-30I YAT-YGWA-14S YAT-YGWA-3I YAT-YGWA-3D				
2651382004 2651382005 2651382006 2651382008 2651382009 2651382010 2651382011 2651382011 2651382012 2651382013 2651382014 2651382015 2651382016 2651382017 2651382018	YAT-GWA-2 YAT-YGWA-5D YAT-YGWA-20S YAT-YGWA-21I YAT-YGWA-17S YAT-YGWA-18S YAT-YGWA-18I YAT-YGWA-39 YAT-YGWA-47 YAT-YGWA-30I YAT-YGWA-14S YAT-YGWA-3I YAT-YGWA-3D				
2651382005 2651382006 2651382007 2651382008 2651382010 2651382011 2651382011 2651382012 2651382013 2651382014 2651382015 2651382016 2651382017 2651382018	YAT-YGWA-5D YAT-YGWA-20S YAT-YGWA-21I YAT-YGWA-17S YAT-YGWA-18S YAT-YGWA-18I YAT-YGWA-39 YAT-YGWA-47 YAT-YGWA-30I YAT-YGWA-14S YAT-YGWA-3I YAT-YGWA-3D				
2651382006 2651382007 2651382008 2651382009 2651382010 2651382011 2651382012 2651382013 2651382014 2651382015 2651382016 2651382017 2651382018	YAT-YGWA-20S YAT-YGWA-21I YAT-YGWA-17S YAT-YGWA-18S YAT-YGWA-18I YAT-YGWA-39 YAT-YGWA-47 YAT-YGWA-30I YAT-YGWA-14S YAT-YGWA-3I YAT-YGWA-3D				
2651382007 2651382008 2651382009 2651382010 2651382011 2651382012 2651382013 2651382014 2651382015 2651382016 2651382017 2651382018	YAT-YGWA-21I YAT-YGWA-17S YAT-YGWA-18S YAT-YGWA-18I YAT-YGWA-39 YAT-YGWA-47 YAT-YGWA-30I YAT-YGWA-14S YAT-YGWA-3I YAT-YGWA-3D				
2651382008 2651382009 2651382010 2651382011 2651382012 2651382013 2651382014 2651382015 2651382016 2651382017 2651382018	YAT-YGWA-17S YAT-YGWA-18S YAT-YGWA-18I YAT-YGWA-39 YAT-YGWA-47 YAT-YGWA-30I YAT-YGWA-14S YAT-YGWA-3I YAT-YGWA-3D				
2651382009 2651382010 2651382011 2651382012 2651382013 2651382014 2651382015 2651382016 2651382017 2651382018	YAT-YGWA-18S YAT-YGWA-18I YAT-YGWA-39 YAT-YGWA-47 YAT-YGWA-30I YAT-YGWA-14S YAT-YGWA-3I YAT-YGWA-3D				
2651382010 2651382011 2651382012 2651382013 2651382014 2651382015 2651382016 2651382017 2651382018	YAT-YGWA-18I YAT-YGWA-39 YAT-YGWA-47 YAT-YGWA-30I YAT-YGWA-14S YAT-YGWA-3I YAT-YGWA-3D				
2651382011 2651382012 2651382013 2651382014 2651382015 2651382016 2651382017 2651382018	YAT-YGWA-39 YAT-YGWA-47 YAT-YGWA-30I YAT-YGWA-14S YAT-YGWA-3I YAT-YGWA-3D				
2651382012 2651382013 2651382014 2651382015 2651382016 2651382017 2651382018	YAT-YGWA-47 YAT-YGWA-30I YAT-YGWA-14S YAT-YGWA-3I YAT-YGWA-3D				
2651382013 2651382014 2651382015 2651382016 2651382017 2651382018	YAT-YGWA-30I YAT-YGWA-14S YAT-YGWA-3I YAT-YGWA-3D				
2651382014 2651382015 2651382016 2651382017 2651382018	YAT-YGWA-14S YAT-YGWA-3I YAT-YGWA-3D				
2651382015 2651382016 2651382017 2651382018	YAT-YGWA-3I YAT-YGWA-3D				
2651382016 2651382017 2651382018	YAT-YGWA-3D				
2651382017 2651382018					
2651382018	141-16WA-40				
	YAT-YGWA-4I				
	YAT-YGWA-5I				
2651382001	YAT-YGWA-1I	EPA 3010A	757001	EPA 6010D	757027
2651382002	YAT-YGWA-1D	EPA 3010A	757001	EPA 6010D	757027
2651382003	YAT-YGWA-2I	EPA 3010A	757001	EPA 6010D	757027
2651382004	YAT-GWA-2	EPA 3010A	757001	EPA 6010D	757027
2651382005	YAT-YGWA-5D	EPA 3010A	757001	EPA 6010D	757027
2651382006	YAT-YGWA-20S	EPA 3010A	757001	EPA 6010D	757027
2651382007	YAT-YGWA-21I	EPA 3010A	757001	EPA 6010D	757027
2651382008	YAT-YGWA-17S	EPA 3010A	757001	EPA 6010D	757027
2651382009	YAT-YGWA-18S	EPA 3010A	757001	EPA 6010D	757027
2651382010	YAT-YGWA-18I	EPA 3010A	757001	EPA 6010D	757027
2651382011	YAT-YGWA-39	EPA 3010A	757001	EPA 6010D	757027
2651382012	YAT-YGWA-47	EPA 3010A	757001	EPA 6010D	757027
2651382013	YAT-YGWA-30I	EPA 3010A	757001	EPA 6010D	757027
2651382014	YAT-YGWA-14S	EPA 3010A	757001	EPA 6010D	757027
2651382015	YAT-YGWA-3I	EPA 3010A	757001	EPA 6010D	757027
2651382016	YAT-YGWA-3D	EPA 3010A	757001	EPA 6010D	757027
2651382017	YAT-YGWA-40	EPA 3010A	757001	EPA 6010D	757027
2651382018	YAT-YGWA-4I	EPA 3010A	757001	EPA 6010D	757027
2651382019	YAT-YGWA-5I	EPA 3010A	757001	EPA 6010D	757027
2651382001	YAT-YGWA-1I	EPA 3005A	756999	EPA 6020B	757022
2651382002	YAT-YGWA-1D	EPA 3005A	756999	EPA 6020B	757022
2651382003	YAT-YGWA-2I	EPA 3005A	756999	EPA 6020B	757022
2651382004	YAT-GWA-2	EPA 3005A	756999	EPA 6020B	757022
2651382005	YAT-YGWA-5D	EPA 3005A	756999	EPA 6020B	757022
2651382006	YAT-YGWA-20S	EPA 3005A	756999	EPA 6020B	757022
2651382007	YAT-YGWA-21I	EPA 3005A	756999	EPA 6020B	757022
2651382008	YAT-YGWA-17S	EPA 3005A	756999	EPA 6020B	757022
2651382009	YAT-YGWA-18S	EPA 3005A	756999	EPA 6020B	757022
2651382010 2651382010	.A. 1011A-100	EPA 3005A	756999	EPA 6020B	101022

## **REPORT OF LABORATORY ANALYSIS**

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## **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Date: 03/21/2023 02:17 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch
92651382011	YAT-YGWA-39	EPA 3005A	756999	EPA 6020B	757022
2651382012	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
2651382017	YAT-YGWA-40	EPA 3005A	756999	EPA 6020B	757022
92651382018	YAT-YGWA-4I	EPA 3005A	756999	EPA 6020B	757022
2651382019	YAT-YGWA-5I	EPA 3005A	756999	EPA 6020B	757022
2651382001	YAT-YGWA-1I	EPA 7470A	757772	EPA 7470A	757938
2651382002	YAT-YGWA-1D	EPA 7470A	757772	EPA 7470A	757938
2651382003	YAT-YGWA-2I	EPA 7470A	757772	EPA 7470A	757938
2651382004	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
2651382007	YAT-YGWA-21I	EPA 7470A	757772	EPA 7470A	757938
2651382008	YAT-YGWA-17S	EPA 7470A	757772	EPA 7470A	757938
92651382009	YAT-YGWA-18S	EPA 7470A	757772	EPA 7470A	757938
2651382010	YAT-YGWA-18I	EPA 7470A	757772	EPA 7470A	757938
2651382011	YAT-YGWA-39	EPA 7470A	758311	EPA 7470A	758406
92651382012	YAT-YGWA-47	EPA 7470A	758311	EPA 7470A	758406
2651382013	YAT-YGWA-30I	EPA 7470A	758312	EPA 7470A	758407
2651382014	YAT-YGWA-14S	EPA 7470A	758312	EPA 7470A	758407
2651382015	YAT-YGWA-3I	EPA 7470A	758312	EPA 7470A	758407
2651382016	YAT-YGWA-3D	EPA 7470A	758312	EPA 7470A	758407
2651382017	YAT-YGWA-40	EPA 7470A	758312	EPA 7470A	758407
2651382018	YAT-YGWA-4I	EPA 7470A	758312	EPA 7470A	758407
2651382019	YAT-YGWA-5I	EPA 7470A	758312	EPA 7470A	758407
2651382001	YAT-YGWA-1I	SM 2540C-2015	755255		
2651382002	YAT-YGWA-1D	SM 2540C-2015	755255		
2651382003	YAT-YGWA-2I	SM 2540C-2015	755255		
2651382004	YAT-GWA-2	SM 2540C-2015	755255		
2651382005	YAT-YGWA-5D	SM 2540C-2015	755255		
2651382006	YAT-YGWA-20S	SM 2540C-2015	755255		
92651382007	YAT-YGWA-21I	SM 2540C-2015	755255		
2651382008	YAT-YGWA-17S	SM 2540C-2015	755432		
2651382009	YAT-YGWA-18S	SM 2540C-2015	755432		
2651382010	YAT-YGWA-18I	SM 2540C-2015	755432		
2651382011	YAT-YGWA-39	SM 2540C-2015	755432		
2651382012	YAT-YGWA-47	SM 2540C-2015	755730		
92651382013	YAT-YGWA-30I	SM 2540C-2015	755730		
2651382014	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		



## **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Date: 03/21/2023 02:17 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92651382018	YAT-YGWA-4I	SM 2540C-2015		_	
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		
2651382015	YAT-YGWA-3I	SM 2320B-2011	756119		
2651382016	YAT-YGWA-3D	SM 2320B-2011	756119		
2651382017	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		
2651382004	YAT-GWA-2	EPA 300.0 Rev 2.1 1993	755105		
2651382005	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		
2651382008	YAT-YGWA-17S	EPA 300.0 Rev 2.1 1993	755105 755105		
92651382009	YAT-YGWA-18S	EPA 300.0 Rev 2.1 1993	755105 755105		
92651382010	YAT-YGWA-18I	EPA 300.0 Rev 2.1 1993	755105 755105		
92651382010	YAT-YGWA-39	EPA 300.0 Rev 2.1 1993	755105 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 755595		
	YAT-YGWA-301 YAT-YGWA-14S	EPA 300.0 Rev 2.1 1993 EPA 300.0 Rev 2.1 1993			
92651382014			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		
2651382017	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		

	Pace	DC#_Title: ENV-	FRM-HUN1-0083	v02	_Sample (	Cond	ition Upon Receipt	**************************************	
	AMERICAN SERVED	Effective Date: 11/1	4/2022	F-79 (91.00 (1944)	The state of the s	- FA(WHE)		***************************************	
c C	boratory rece Asheville  Sample Condit Upon Receipt ourier: Commercial oustody Seal Prese	Eden Greenwion Client Name:	A Powo	<u> </u>		Projec	Me WO#: 92	2651382 	<b>-</b>
Th Co Co	icking Material; iermometer; IR Gun oler Temp: oler Temp Corre	Correct Add/S	Bubble Bags  Type of ic  tion Factor: 10-11  Ubtract (°C) 0-11	No De:	one   0		☐None  emp should be above freezi	al Tissue Frozen? No (20/A)	3
	Oid samples origing (check maps)?	inate in a quarantine zone	within the United States	: CA, N	Y, or 5C	E i:	old samples originate from a for including Hawaii and Puerto Ricc	o)? ∐Yes ⊟No	
	Chain of Custoo	dy Present?	<b>শ</b> ৰ্		P*****		Comments/D	iscrépancy:	
		d within Hold Time?		No		1.			
	1	e Analysis (<72 hr.)?		No		2.			
		and Time Requested?		440		3.			
	1		☐Yes	<b>19</b> No	□N/A	4.			
	Sufficient Volum		<b>P</b> r€s	□No	□n/a	5.			
	Correct Contain		OTE .	□N¢	□N/A	6.			
	-Pace Contain		GHES .	□N≎	_ ,				
	Containers intac		Dies	□No	□N/A	7.			$\dashv$
	Dissolved analys	is: Samples Field Filtered?	□Yes	□No	□N/A	8.			
.	Sample Labels N	fatch COC?	☐ Yes	□No	□n/a	9.			$\dashv$
	-Includes Date	e/Time/ID/Analysis Matr	× W	·					
		DA V@als (>5-6mm)?	□Yes	□No	DINA	10.			$\dashv$
	Trip Blank Preser	nt?	Ū∀es	□Nø	ZN/A	11.			_
I	Trip Blank Custo	dy Seals Present?	□Yes	□No	DINA				1
COM	MENTS/SAMPLE DI	SCREPANCY		(CA)	Ema	<u> </u>	Field Data	Required?	
LIENT	NOTIFICATION/RE	SOLUTION			Lo	: ID of s	plit containers:	The state of the s	
Perso	on contacted:				Date/Time:		то при то выменения по съемными по съемными по поставиления по по по по по по по по по по по по по	And the second sec	v: <b>26</b>
	oject Manager S	**************************************		SIE Independentian Laurentingen		Malana	Date:		P
Pro	oject Manager Si	RF Review:		WANTED CO.			Date:	S	



**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, Collform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

Project #

WO#: 92651382

PM: BV

Due Date: 02/22/23

CLIENT: GA-GA Power

\*\*Bottom half of box is to list number of bottles

					A. MO7715
***Check	<u>all</u> :	unpreserved	<b>Nitrates</b>	for	chlorine

# Carat	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-Z50 ml. Plastic Unpreserved (N/A)	BP2U-500 mt Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP45-125 mt. Plastic H2SQ4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	8P4Z-125 mL Plastic ZN Acretate & NaOH (>9)	8P48-125 mL Plastic NaOH (pH > 12) (CI-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (CI-)	AG1H-1 (Iter Amber HCI (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (CI-)	AG15-1 fiter Amber H2504 (pH < 2)	AG35-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A){Cl-}	DG9H-40 mL VOA HCI (N/A)	VG9T-40 mL VOA Na25203 (N/A)	VG9U-40 mt VQA Unpreserved (N/A)	DG9V-40 mt VOA H3PO4 (N/A)	KP7U-50 mt. Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP51-125 mL Sterile Plastic (N/A lab)	SPZT-250 mt Sterile Plassk (N/A - lab)	MANN	-8P3R-250 mt Plastic (NH2)2SO4 (9.3-9.7)	AGOU-100 mL Amber Unpreserved (N/A) (CI-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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·	,	pH Ad	ljustment Log for Pres	erved Samples	-	
Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #
				· · · · · · · · · · · · · · · · · · ·	1 n	
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	r thara is a discount		and the state of t			

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	DC#_Title: ENV-FRM	I-HUN1-0083	v02_S	iample Co	onditio	n Upon F	Receipt		
ANDALIEN SHAKES	Effective Date: 11/14/20	)22		***************************************					
Asheville Sample Cond Upon Receip	- G-A	Huntersvi	ilie 🗌	Raleigh[	Med	-	: 926	55138	
Courier:	Fed Ex C	JPS USPS	r	Clie	nt .	PM: BV CLIENT	: GA-GA F	Due Date: Ower	02/22/23
Custody Seal Pre	esent? Yes 100	Seals Intact?	□Yes	□No		Date/Initial	s Person Exami	ning Contents:	2/8/23
Packing Material Thermometer:  IR Gu  Cooler Temp:  Cooler Temp Corn USDA Regulated: Did samples or	in ID: 214 Correction I	4.8		Wet ∐Blu	e 🔲 Ni Temp	should be a Samples out has begun	Yes No	. Samples on ice,	
(check maps)?	Yes No	The United States	: CA, NY, (	or SC	Did sa includ	ing Hawaii an	d Puerto Rico)?		
Chain of Cust	tody Present?	<b>टा</b> ल्ड	□No	□N/A	1.	C	omments/Disc	герапсу:	
Samples Arriv	ved within Hold Time?	Dives :	 □N0		2.	***************************************			
Short Hold Ti	ime Analysis (<72 hr.)?	□Yes			3.				***************************************
1	ound Time Requested?		<b>2</b> %0		<i>3.</i> 4.	***************************************			
Sufficient Vol					****				
Correct Conta	······································				5.	***************************************			***************************************
	ainers Used?	☐Yes ☐₩s	□No □No	□n/a □n/a	6.				
Containers Int	tact?	Dws	□No		7.			***	
Dissolved ana	lysis: Samples Field Filtered?	□Yes	□No	and the same of th	8.				
Sample Labels	s Match COC?	Lives	□No		9.				
-includes D	ate/Time/IO/Analysis Matrix:	_ W	œ		····				
	VOA Vials (>5-6mm)?	□Yes	□N≎	The state of the s	10.				
Trip Blank Pre		Yes	□No	ZN/A	11.		***************************************		
***************************************	tody Seals Present?	☐Yes	□No	ZN/A					
COMMENTS/SAMPLE	DISCREPANCY	20 CMANN proposition (C. College Proposition C			4,		Field Data Re	quired? Yes	□No
LIENT NOTIFICATION,	/RESOLUTION			Lot	ID of split	containers:			
Person contacted:				Date/Time;	270 EARNA - 48	ett til en en en en en en en en en en en en en	entanga contante entendente entenden entenden entenden entenden entenden entenden entenden entenden entenden e	Market or of the block of the b	
Project Manage	r SCURF Review:					Prot.			
Project Manage	00000000000000000000000000000000000000	<u> </u>	Appropriate Assessment Newson (1997)	Milable-Longs sprage and trace of control benefit and	CORNEC	Date:			



Effective Date: 11/14/2022

Theck mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples. ceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

Project#

WO#: 92651382

M: BV

Due Date: 02/22/23

CLIENT: GA-GA Power

'Bottom half of box is to list number of bottles

\*\*Check all unpreserved Nitrates for chlorine

144114	8P4U-125 mL Plastic Unpreserved (N/A) (Ci-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	<b>BP45-125 mL Plastic H2SO4 (pH &lt; 2) (CI-)</b>	BP3N-250 mt, plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP48-125 mL Plastic NaOH (pH > 12) (CI-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AGIH-1 liter Amber HCI (pH < 2)	AG3U-250 ml. Amber Unpreserved (N/A) (CI-)	AG15-1 liter Amber H2SO4 (pH < 2)	AG35-250 mL Amber H2504 (pH < 2)	0G94-40 ml. Amber NH4Cl (N/A)(Cl-)	DG9H-40 ml VOA HCI (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 mt Sterile Plastic (N/A lab)	SPZT-250 mL Sterile Plastic (N/A – (ab)	8P3R-250 ml. Plastic (NH2)2SO4 (9.3-9.7)	AGON-100 mL Amber Unpreserved (N/A) (Cl.)	VSGU-20 mt Scintillation vials (N/A)	DG9U-40 mt. Amber Unpreserved viats (N/A)
		7	1			X																	X				
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Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation	Amount of Preservative	Lot #
				adjusted	added	
					-	
		77.00				

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. Dut of hold, incorrect preservative, out of temp, incorrect containers.

Pace	DC#_Title: ENV-FRM-H	UN1-0083	v02_S	ample (	Condition	Upon Receipt
ABALISCA SEVERS	Effective Date: 11/14/2022		<del></del>			
Asheville	eiving samples: Eden Greenwood	Huntersvi	lle 🔲	Raleigl	n∐ Med	hanicsville Atlanta Kernersville
Sample Condit Upon Receipt	***************************************	Poner	V	•	Project #:	WO#: 92651382
Courier:  Commercial	Fed Ex UPS	USPS		Псі	ient	PM: BV Due Date: 02/22/23 CLIENT: GA-GA Power
Custody Seal Pres	ent? Yes Ano Sea	ils Intact?	∐Yes	□No	:	Date/Initials Person Examining Contents: 2/8/23
Packing Material: Thermometer:	0.47	ubble Bags	None		ther	Biological Tissue Frozen?  Yes No NA
Cooler Temp: Cooler Temp Corre USDA Regulated S	ected (*C):    Correction Fact	:8		Wet □E	Temp	should be above freezing to 6°C   Samples out of temp criteria. Samples on ice, cooling process has begun    samples originate from a foreign source (internationally, ing Hawaii and Puerto Rico)?   Yes   No
Challe of Carl						Comments/Discrepancy:
Chain of Custo		Erres	□No	□N/A	1.	
	ed within Hold Time?		□No	□N/A	2.	
	ne Analysis (<72 hr.)?	☐Yes	ANG	□N/A	3.	
Kush Turn Arc	ound Time Requested?	□Yes	<b>Z</b> No	□N/A	4.	
Sufficient Volu	ıme?	Dres .	No	□N/A	5.	
Correct Conta	··-·-	<b>⊡</b> Tes	□No	□n/a	6.	
	ainers Used?	_ □wes	□No	□n/A		
Containers Int		Dines	□No		7.	
	ysis: Samples Field Filtered?	□Yes	□No	N/A	8.	
Sample Labels	Match COCY	☐Yes	□No	□n/a	9.	
-Includes Da	ate/Time/ID/Analysis Matrix:	W	ox		İ	
Headspace in \	VOA Vials (>5-6mm)?	□Yes	□No	17	10	
Trip Blank Pres		Yes	□No	ZN/A ZN/A	10. 11.	
Trin Blank Cust	tody Seals Present?			_/		
MMENTS/SAMPLE		□Yes ·	□No	ZNA	<u> </u>	Field Data Required? Yes No
NHISHMAN						
ENT NOTIFICATION/	AFSOLUTION		A STATE OF THE STA	<u> </u>	ot ID of spiit	containers:
				T- 3-43-43-43-43-43-43-43-43-43-43-43-43-43		
erson contacted:	THE RESIDENCE OF THE PROPERTY	EUMANIA CONTRACTOR DE LA CONTRACTOR DE CONTRACTOR DE CONTRACTOR DE CONTRACTOR DE CONTRACTOR DE CONTRACTOR DE C		Data/Tiese	CONTRACTOR SHOWING TO TRACTOR SALES	

Project Manager SCURF Review:

Project Manager SRF Review:

Date:



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

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) (CI-)	BP3U-250 mL Plastic Unpreserved (N/A)	8P2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP45-125 mt Plastic H25O4 (pH < 2) (CI-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	8P48-125 ml. Plastic NaOH (pH > 12) (G-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (CI-)	AG1H-1 fiter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (CI-)	AG15-1 liter Amber H2504 (pH < 2)	AG35-250 mL Amber H2504 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9R-40 mL VOA HCI (N/A)	VG9T-40 mL VOA Na252O3 (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)	6P N	8P3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AGOU-100 mL Amber Unpreserved (N/A) (CI-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mt. Amber Unpreserved vials (N/A)
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C		рн Ас	ljustment Log for Pres	erved Samples		***************************************
Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #
						<u> </u>
				· · · · · · · · · · · · · · · · · · ·		
			-	***************************************		

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 Client Name **Upon Receipt** Project #: Courier: Fed Ex ☐Client Commercial Pace Other: Custody Seal Present? Yes HNO Seals Intact? No Date/Initials Person Examining Contents: Packing Material: Bubble Wrap Bubble Bags None Other **Biological Tissue Frozen?** ☐Yes ☐No ☑N/A Thermometer: TA Gun ID: Type of Ice: - Wet Blue □None Correction Factor: Cooler Temp: Add/Subtract (°C) C Temp should be above freezing to 6°C Samples out of temp criteria. Samples on ice, cooling process Cooler Temp Corrected (°C): has begun USDA Regulated Soil ( N/A, water sample) Did samples originate in a quarantine zone within the United States: CA, NY, or SC Did samples originate from a foreign source (internationally, (check maps)? ☐Yes ☐No including Hawaii and Puerto Rico)? Yes Comments/Discrepancy: Chain of Custody Present? No 1. **⊟**Yes □N/A Samples Arrived within Hold Time? \_ Yes □No □N/A 2. Short Hold Time Analysis (<72 hr.)? □Yes **⊴**₩6 □N/A 3, **Rush Turn Around Time Requested?** PNo Yes □N/A 4 Sufficient Volume? No Tes □N/A 5. **Correct Containers Used?** □No □N/A 6. -Pace Containers Used? No □N/A Containers Intact? 7. □No □N/A Dissolved analysis: Samples Field Filtered? □N/A □No 8. Sample Labels Match COC? Yes □No 9. □N/A -Includes Date/Time/ID/Analysis Matrix: Headspace in VOA Vials (>5-6mm)? 10. □Yes □ No Trip Blank Present? Yes Trip Blank Custody Seals Present? □Yes COMMENTS/SAMPLE DISCREPANCY Field Data Required? Yes No Lot ID of split containers: CLIENT NOTIFICATION/RESOLUTION \_\_\_\_\_ Date/Time: Person contacted:

Project Manager SCURF Review:

**Project Manager SRF Review:** 



<b>Effective</b>	Date:	11/	14/2	022

\*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

ternt	BP4U-125 mL Plastic Unpreserved (N/A) (CI-)	8P3U-250 mL Plastic Unpreserved (N/A)	8P2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	8P45-125 mL Plastic H2SO4 (pH < 2) (CI-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP42-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mt. Plastic NaOH (pH > 12) (CI-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Ch.)	<b>AG1H-1</b> liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (CI-)	AG15-1 liter Amber H25O4 (pH < 2)	AG35-250 mL Amber H2504 (pH < 2)	DG94-40 mL Amber NH4CI (N/A)(CI-)	DG9H-40 ml, VOA HCI (N/A)	V69T-40 ml VOA Na252O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mt Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – fab)	SPZT-250 mL Sterife Plastic (N/A – lab)	No.	KP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AGOU-100 mt Amber Unpreserved (N/A) (CI-)	V5GU-20 mt. Scintillation vials (N/A)	DG9U-40 mt. Amber Unpreserved vials (N/A)
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		pH Ad	ljustment Log for Pres	erved Samples		W
Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot#
	·			A. C. C. C. C. C. C. C. C. C. C. C. C. C.		

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 DC#_Title: ENV-FRM.	-HUN1-0083 v	02_Sample	Conditio	n Upon Receipt
Effective Date: 11/14/20	22	·		
.aboratory receiving samples: Asheville Eden Greenwood  Sample Condition Client Name: Upon Receipt	Huntersville	tani trayang.	_	WO#: 92651382
Courier: Fed Ex UI Commercial Pace	PS USPS Other:		Project #:	PM: BV Due Date: 02/22/23 CLIENT: GA-GA Power
	Seals Intact?	]Yes □No		Date/Initials Person Examining Contents 2/9/13
Packing Material: Bubble Wrap  Thermometer: 2/4	_		ther	Biological Tissue Frozen?  Yes No N/A
Cooler Temp:  Cooler Temp Corrected (°C):  USDA Regulated Soil ( N/A, water sample)  Did samples originate in a quarantine zone within (check maps)? Yes No	z (°C) <u>+01</u> Z r 2 <u> </u>	A, NY, or SC	Temi C	o should be above freezing to 6°C  Samples out of temp criteria. Samples on ice, cooling process has begun  samples originate from a foreign source (internationally, ling Hawaii and Puerto Rico)?   Yes
Chain of Custody Present?			<u> </u>	Comments/Discrepancy:
Samples Arrived within Hold Time?		No □N/A	1.	
Short Hold Time Analysis (<72 hr.)?	***************************************	□NO □N/A	2.	
Rush Turn Around Time Requested?		N/A □N/A	3.	
Sufficient Volume?			4.	
Correct Containers Used? -Pace Containers Used?	∠⊟YES [	]no	5. 6.	
Containers Intact?		No □N/A	7.	
Dissolved analysis: Samples Field Filtered? Sample Labels Match COC?		No EM/A	8.	
-Includes Date/Time/ID/Analysis Matrix:	W			
Headspace in VOA Vials (>5-6mm)?	Yes	No MA	10.	
Trip Blank Present?		No PM/A	11.	
Trip Blank Custody Seals Present?  MMENTS/SAMPLE DISCREPANCY	☐Yes ☐	No □N/A		
	***************************************		· ————————————————————————————————————	Field Data Required? Yes No
NT NOTIFICATION/RESOLUTION		Lo	t ID of split	containers;
son contacted:		NAME OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OWNER OF THE OWNER OWNE		
Project Manager SCURF Review:		Date/Time:	-	Dana.
Project Manager SRF Review:			<del></del>	Date:



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

Project #

WO#:92651382

PM: BV

Due Date: 02/22/23

CLIENT: GA-GA Power

- \*\*Bottom half of box is to list number of bottles
- \*\*\*Check all unpreserved Nitrates for chlorine

1em#	BP4U-125 mL Plastic Unpreserved (N/A) (CL-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liker Plastic Unpreserved (N/A)	BP45-125 mL Plastic H2SO4 (pH < 2) (CI-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP42-125 inL Plastic 2N Acetate & NaOH (>9)	BP48-125 mL Plastic NaOH (pH > 12) (CL)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (CI-)	AG1H-1 liter Amber HCI (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (CI-)	AG15-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2504 (pH < 2)	D694-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VDA HCI (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 mt Sterile Plastic (N/A - lab)	SP2T-250 ml. Sterile Plastic (N/A ~ lab)	KPIN	BP3R-250 mL Plastic (NH2)2504 (9.3-9.7)	AGOU-100 mL Amber Unpreserved (N/A) (CI-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 ml. Amber Unpreserved vials (N/A)
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		рН Ас	ljustment Log for Pres	erved Samples		***************************************
Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #
					***************************************	
						<del></del>

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.

1	Pace
á	

- Pace					
1 4847-62-934623	Effective Date: 11/14/2	022			The state of the s
boratory rec	eiving samples:				The state of the s
Asheville 🔲	Eden Greenwood	l 🔲 Huntersvill	le 🔲	Raleigh[	☐ Mechanicsville☐ Atlanta☐ Kernersville☐
Sample Cond	ition Client Name:				UO# · 02651202
Upan Receip	ot C A	-0.01		Pro	oject #: WO#: 92651382
Courier:	Fed Ex	TOWER JUPS TUSPS		Clien	PM: BV Due Date: 02/22/23
Commercial	☐ Face	Jors Joses Other:	:	[_]clien	CLIENT: GA-GA Power
Custody Seal Pre	esent? Yes INO	Seals Intact?	Yes	∏No	Date/Initials Person Examining Contents 2/9/23
Packing Materia	l: Bubble Wrap	Bubble Bags	None	Othe	er Biological Tissue Frozen?
Thermometer:	2111				Yes No IN/A
₫ IR Gu	un 10: <u>414</u>	Type of Ice	: <b>□</b> ₩	vet □Blue	e <b>None</b>
	2 / Correction	1 2	7	_	
Cooler Temp:	Add/Subi	ract (°C)	1		Temp should be above freezing to 6°C  [Samples out of temp criteria. Samples on ice, cooling process
Cooler Temp Cor	rrected (°C):	202			has begun
	Soil ( N/A, water sample)	A. S &	<b>63</b> 407		
Did samples o	riginate in a quarantine zone wit 	hin the United States:	CA, NY, o	r SC	Did samples originate from a foreign source (internationally, including Hawail and Puerto Rico)? Yes
encon mepon					Comments/Discrepancy:
Chain of Cus	stody Present?	D¥65	□No	□n/a	1.
Samples Arr	ived within Hold Time?	Ø Yes	□No	□n/a	<u> 2</u> ,
Short Hold	Time Analysis (<72 hr.)?	□Yes	□Ne-	□n/a	3,
Rush Turn A	Around Time Requested?	□Yes	المستعلق	□n/a	4.
Sufficient Vo	olume?	₽¥ES	□No	□n/a	5,
	tainers Used?	.⊟Tes	□No		6.
,	ntainers Used?		∐No	□N/A	
Containers I	Intact?	DHES"	□No	□n/a	7.
Dissolved ar	nalysis; Samples Field Filtered?	Yes	□No	BN/A	8.
Sample Labo	els Match COC?	Hres	□N≎	□N/A	9.
	•	1./	-		
-Includes	Date/Time/ID/Analysis Matrix				
Headspace	in VOA Vials (>5-6mm)?	□Yes	□No	IN/A	10.
Trip Blank P		Yes	□No		11.
Trin Blank C	iustody Seals Present?	□Yes	□N≎	□N/A	
COMMENTS/SAMP					Field Data Required? Yes No
-	,				•
					AMMANASA
				Lo	ot ID of split containers:
LIENT NOTIFICATIO	ON/RESOLUTION				
Person contacter	d:		<u> </u>	Date/Time:	
Project Mana	ger SCURF Review:				Date:
Designs Marin	nar CDE Boulous				Date:
Project Mana	iger SRF Review:	Managara	No. of Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street, Street,		Date:



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

Project #

WO#: 92651382

PM: By

Due Date: 02/22/23

CLIENT: GA-GA Power

\*\*Bottom half of box is to list number of bottles

\*\*\*Check all unpreserved Nitrates for chlorine

(fem#	BP4U-125 mL Plastic Unpreserved (N/A) (CI-)	BP3U-250 ml. Plastic Unpreserved (N/A)	8P2U-500 mL Plastic Unpreserved (N/A)	8P1U-1 liter Plastic Unpreserved (N/A)	BP45-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 ml, plastic HNO3 (pH < 2)	BP42-125 mL Plastic ZN Acetate & NaOH (>9)	BP48-125 mt. Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (CJ-)	<b>AG1H-</b> 1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl.)	AG15-1 liter Amber H25O4 (pH < 2)	AG35-25() ml. Amber H25O4 (pH < 2)	DG94-40 ml. Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCI (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 rnt VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-S0 in L 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 Sterily Plastic (N/A - lab)	BNW	8P3R-250 mt Plastic (NH2)Z5O4 (9.3-9.7)	AGOU-100 mL Amber Unpreserved (N/A) (CI-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 ml. Amber Unpreserved vials (N/A)
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		pH Ac	ljustment Log for Pres	erved Samples		
Sample 10	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 compilance 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	DC#_Title	: ENV-FR	M-HUN1-0083	v02_S	ample C	onditio	n Upon Receipt	- Company of the Comp	
. Od uter week	MULKU SINCIF	Effective Da	ite: 11/14/	2022		····	· · · · · · · · · · · · · · · · · · ·		<u> </u>	
Lab	oratory rece	iving sample		Photographical characters of the control of the con	O-0-0-11 Parameter Community (1997)	<del></del>				
	sheville 🗌			d 🔲 Huntersvi	ا ماا	Raleigh	. □ Ban	chanicsville Atla	nta Kornorsvilla 🗀	
	Sample Condit Upon Receipt	ion Clien	t Name:	LO col	<u></u>	_	Project #:	WO# : 92	651382	
Co	ourier:	Fed	I Ex	JUPS JUSPS		Clie		PM: BV	Due Date: 02/22/2	3
	Commercial	☐ Pac	e _	Othe			enţ	CLIENT: GA-GA	Power	
	stody Seal Pres	<del>-</del> -	4 No	Seals Intact?	∐Yes	□No		Date/Initials Person Exami	ning Contents 2/9/13	
	cking Material:	☐Bubble	Wrap	☐Bubble Bags	None	Ot	her	Biological T	issue Frozen?	
The	ermometer:	214				خد.		☐Yes ☐No	N/A	
			Correctio	Type of Ice	: <b></b>	Wet □BI	ue 🔲 N	ione	•	
Co	oler Temp:	21	Correctio — Add/Sub		f		Tem	should be above freezing	to 6°C	
Cod	oler Temp Corre	ected (°£')		202	<del>/</del>	-		Samples out of temp criteria	. Samples on ice, cooling process	
US	DA Regulated Se	oil ( 🔲 N/A, wa	ter sample)					has begun		
	Did samples orig	inate in a quara Tyes TNo	ntine zone wit	hin the United States:	CA, NY,	or SC	Did sa	amples originate from a foreig	in source (internationally,	
	(Clieck maps): [	Ties Tino	······				includ	ling Hawaii and Puerto Rico)?	Yes No	1
	Chain of Custo	dy Present?		Elves	□No	□N/A	1.	Comments/Disc	repancy:	
	Samples Arrive	d within Hold Ti	me?	₽Yes .	□No	□n/A	2.			
	Short Hold Tim	ne Analysis (<72	hr.)?	□Yes	[]No	□N/A	3.			
	Rush Turn Aro	und Time Reque	ested?	□Yes		□N/A	4.			
	Sufficient Volu	me?		Pres '	□N□	□N/A	5.			
	Correct Contain	ners Used?		Æ]Yēš	□No	□N/A	6.			
	-Pace Conta	·	····	☐¥es	□No	□N/A				
	Containers Inta		· · · · · · · · · · · · · · · · · · ·		□N≎	□n/a	7.			
		sis: Samples Fie	ld Filtered?	□Yes	No	□W/#	8.			
	Sample Labels I	Match COC?		'Eyes	□No -	□n/a	9.			
	-Includes Da	te/Time/ID/Ana	ysis Matrix:	-w						
		OA Vials (>5-6m	<u>m)?</u>	Yes	<u> </u>	GN/A	10.			
	Trip Blank Pres	entr		□Yes	□No	<b>WATA</b>	11.			
		ody Seals Preser	<u>t?</u>	□Yes	□Nc	□N/A				
LUM	MENTS/SAMPLE (	JISCREPANCY				A CONTRACTOR OF THE PARTY OF TH		Field Data Ro	equired? Yes No	
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LIENT	NOTIFICATION/	RESOLUTION		,			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
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Project Manager SCURF Review:

Project Manager SRF Review:

Date:

Date:

1-	Pace
1	MANAGER STRUCTS
	SERVICE CLEMENT

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

Project #

\*\*Bottom half of box is to list number of bottles

\*\*\*Check all unpreserved Nitrates for chlorine

1	BP4U-125 mL Plastic Unpreserved (N/A) (CL.)	BP3U-250 mL Plastic Unpreserved (N/A)	8P2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (CI-)	BP3N-250 mt plastic HNO3 (pH < 2)	BP42-125 mL Plastic ZN Acetate & NaOH (>9)	BP48-125 mt Plastic NaOH (pH > 1.2) (CI-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCI (ptł < 2)	AG3U-250 ml. Amber Unpreserved (N/A) (CI-)	AG15-1 liter Amber H2504 (pH < 2)	AG35-250 mL Amber H2504 (pH < 2)	DG94-40 ml. Amber NH4Cl (N/A)(Cl.)	DG9H-40 mL VQA HCI (N/A)	VG9T-40 mt. VOA Na252O3 (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 mt, Sterile Plastic (N/A - lab)	SP2T-250 mt. Sterile Plastic (N/A - lab)	A Maria Commission of the Comm	BP3R-250 mL Plastic (NH2)2504 (9.3-9.7)	AGDU-100 mL Amber Unpreserved (N/A) (CI-)	VSGU-20 mt. Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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Sample ID	Type of Preservative		ljustment Log for Pres	erved samples	•	
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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.

	Berylium (I Lithium (I 7040A; M Alkalinin	Ago III de	Anions S		12	11	10		-	7	۰			3		۲	ITEM#	Marhava	Prione:	Email To:		Address:	Company:	Section A Required
	App in America Section (Inc.), Assemble (Inc.), Cobalt (Co.), Lead (Pb.), Berythum (Be), Cationium (Gol., Chromism (Gr.), Cobalt (Co.), Lead (Pb.), Lithium (Li), Malyhdenum (Mo.), Selenium (Se) 7040A: Mercury (Hg). Also add Co., Ne, K for this event. Alkalinity - report total, carbonate, and bicarbonate	App    Metals: Boron 6020B, Ca 6010D; App VII 5020B; Zn, Ag, Ni, V	Anions Suite 300.0 (Cl. F. Sulfete)	ADDITIONAL COMMENTS						YAT-YGWA-3D	YAT-YGWA-3I	YAT-YGWA-2I	YAT-YGWA-1D	YAT-YGWA-1I	YAT-YGWA-40	YAT-YGWA-39	SAMPLE ID  Character per box.  (A-Z, 0-9 i, -)  Sample (de must be unique  Tuese  Tuese  Tuese  Tuese  Tuese	Contraction the case.	20.51/5 Fax	laucoker@southernco.com		Atlanta, GA		Citent information:
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	Beryllinn (Be), Cadmium (Cd), Chronisim (Cr), Cobat (Co), Lead (Pb), Libium (Li), Malybdanum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Ma, K for this event. Alkalinity - report total, carbonate, and bicarbonate	App VII 8020B: Zn. Ag. N. V	App III Metals: Boxon 6020B, Ca 6010D;	Anions Suite 300.0 (Ct. F. Suffate)	ADDITIONAL COMMENTS	YAT-YGWA-14S	YAT-YGWA-30I	YAT-YGWA-21I	YAT-YGWA-20S	YAT-YGWA-18I	YAT-YGWA-18S	YAT-YGWA-17S	YAT-YGWA-5D	YAT-YGWA-SI	YAT-YGWA-4I	YAT-GWA-2	YAT-YGWA-47	SAMPLE ID One Character per box. (A.Z. 0-3 i) Sample ids must be unique		Requested Due Date: <	470.620.6176 Fax		Atlanta, GA	ຯ GA Power	Section A Required Client Information:
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	Berylium (3e), Caldrium (Cd), Chromlum (Cr), Cobalt (Co), Lithium (Li), Mohodenum (Mo), Selenium (Se) 7040A: Mercury (Hg), Also add Cs, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate	App IV: Metals 6020B: Antimony (Sb), Assenic (As), Barium (Ba).	App III Matals: Boron 8020B, Ca 6010D; App III 6020B: Zh, Ag, Ni, Y	Anions Suita 300,0 (CL F, Suitate)	ELVERHANCE INVESTIGATOR	YAT-YGWA-14S	YAT-YGWA-30I	YAT-YGWA-211	YAT-YGWA-20S	YAT-YGWA-18I	YAT-YGWA-18S	YAT-YGWA-17S	YAT-YGWA-5D	YAT-YGWA-6I	YAT-YGWA-4I	YAT-GWA-2	YAT-YGWA-47	SAMPLE ID  One Character per box.  (A-Z, 0-61, -)  Sample lids must be unique	Requested Due Date: 570 74				Atlanta, GA	ŧ	Section A Required Client Information:
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		-	Littium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Ma, K for this event, Altraintly - report total, carbonate, and bicarbonate	Acp IV: Metals 60208: Antimony (Sb), Arsenic (As), Berium (Be), Berylium (Be), Cadmium (Cd), Chromium (Cr), Cobatt (Co), Lead (Pb),	App III Metals: Boron 60208, Ca 60100; App VII 60208; Zn, Ag, Ni, V	Anions Suite 300.0 (Ct. F. Sulfate)	RIBOS TATIOLISMO	12 YAT-YGWA-14S	MAT-YGWA-301	16 YAT-YGWA-21	9 YAT-YGWA-20S	AT-YGWA-181	T. YAT-YGWA-18S	8 YAT-YGWA-17S	# YAT-YGWA-5D	YAT-YGWA-5I	* YAT-YGWA-4I	2 YAT-GWA-2	1 YAT-YGWA-47	SAMPLE ID One Character per box. (A-Z, 0-91, -) Semple its must be unique	Requested Due Date: , ST)	20.6176	Email To:  aucoker@sout	- 1	Address: Allanta GA	Ι¥	Section A
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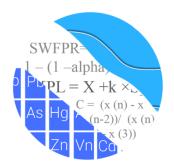
## **Appendix C**

**Statistical Analysis** 

## Appendix III Statistically Significant Increase Summary (February 2023)

Appendix III Parameter	Monitoring Wells
Boron	YGWC-23S, YGWC-38, YGWC-41, YGWC-42, YGWC-43
Calcium	YGWC-38, YGWC-42
Sulfate	YGWC-38, YGWC-42, YGWC-43
Total Dissolved Solids	YGWC-38, YGWC-41, YGWC-42, YGWC-43

## GROUNDWATER STATS CONSULTING



August 31, 2023

Southern Company Services Attn: Ms. Lauren Hartley 241 Ralph McGill Blvd NE, Bin 10160 Atlanta, GA 30308-3374

Re: Plant Yates Ash Management Area (AMA) and R6 CCR Landfill

February 2023 Statistical Analysis

Dear Ms. Hartley,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the February 2023 semi-annual Groundwater Detection and Assessment Monitoring statistical analysis for Georgia Power Company's Plant Yates Ash Management Area (AMA) and R6 CCR Landfill. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10, and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

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

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

## Upgradient wells:

- **AP-1:** YGWA-47
- **AP-2:** YGWA-1D, YGWA-1I, YGWA-2I, YGWA-3D, YGWA-3I, YGWA-14S and, YGWA-30I
- Gypsum Landfill: GWA-2
- AMA-R6: YGWA-17S, YGWA-18I, YGWA-18S, YGWA-20S, YGWA-21I, YGWA-39, YGWA-40, YGWA-4I, YGWA-5D, and YGWA-5I
- Downgradient wells: YGWC-23S, YGWC-24SB, YGWC-36A, YGWC-38, YGWC-41, YGWC-42, YGWC-43, YGWC-49
- Assessment wells: YAMW-1, YAMW-2, YAMW-3, YAMW-4, YAMW-5, PZ-35, PZ-37, PZ-37D, PZ-51, and PZ-52D

Data from assessment wells are evaluated with confidence intervals for the Appendix IV constituents when a minimum of 4 samples is available.

Well YGWC-24SA was installed in June 2020 as a replacement well for YGWC-24S. Note that downgradient well YGWC-24SA was abandoned and replacement well YGWC-24SB was installed in late 2022. YGWC-24SB was first sampled in February 2023. Well YGWC-36A was installed in September 2020 as a replacement well for YGWC-36 to supplement existing data for each constituent.

In the current analysis, reported observations from the February 2023 sample event for Appendix III constituents at YGWC-24SB and YGWC-36A are compared to interwell prediction limits and are treated the same as Appendix III data from the other downgradient wells. Data from wells YGWC-24, YGWC-24SA, and YGWC-24SB are plotted under YGWC-24SB and data from wells YGWC-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% nondetects (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.

### <u>Seasonality</u>

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.

### <u>Trend Test Evaluation</u>

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.

### <u>Appendix III – Determination of Spatial Variation</u>

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

### <u>Trend Test Evaluation – Appendix III</u>

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)

913.829.1470

• 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

### <u>Trend Test Evaluation – Appendix IV</u>

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

Kristina Rayner

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

## 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

	Р	lant Yates	Client: Sou	thern Compan	y Data: P	lant Yates A	AMA-R6 Pr	rinted 4/26/202	3, 11:21	AM			
Constituent	Well	Upper Lim.	Lower Lim.	<u>Date</u>	Observ.	Sig. Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	<u>Alpha</u>	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	<u>Well</u>	Upper Lin	n. Lower Lim	n. Date	Observ.	Sia. E	3a 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 3			n/a	49.86	n/a	n/a		NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-38	0.16	n/a	2/8/2023	4.1	Yes 3			n/a	49.86	n/a	n/a		NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-41	0.16	n/a	2/8/2023	3.3	Yes 3			n/a	49.86	n/a	n/a		NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-42	0.16	n/a	2/8/2023	14.5	Yes 3			n/a	49.86	n/a	n/a		NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-43	0.16	n/a	2/8/2023	2.5	Yes 3			n/a	49.86	n/a	n/a		NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-49	0.16	n/a	2/9/2023	0.014J	No 3			n/a	49.86	n/a	n/a		NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-36A	0.16	n/a	2/9/2023	0.028J	No 3			n/a	49.86	n/a	n/a		NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-24SB	0.16	n/a	2/10/2023	0.04ND	No 3			n/a	49.86	n/a	n/a		NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-23S	37	n/a	2/8/2023	10.9	No 3			n/a	0.813	n/a	n/a		NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-38	37	n/a	2/8/2023	55.3	Yes 3			n/a	0.813	n/a	n/a		NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-41	37	n/a	2/8/2023	14.4	No 3			n/a	0.813	n/a	n/a		NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-42	37	n/a	2/8/2023	74.6	Yes 3			n/a	0.813	n/a	n/a		NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-43	37	n/a	2/8/2023	11	No 3			n/a	0.813	n/a	n/a		NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-49	37	n/a	2/9/2023	11.8		369		n/a	0.813	n/a	n/a		NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-36A	37	n/a	2/9/2023	9.2		369		n/a	0.813	n/a	n/a		NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-24SB	37	n/a	2/10/2023	2.4		369		n/a	0.813	n/a	n/a		NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-23S	12	n/a	2/8/2023	2		369		n/a	0.013	n/a	n/a		NP Inter (normality) 1 of 2
	YGWC-38	12	n/a	2/8/2023	3.9		369		n/a	0		n/a		NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-41	12	n/a	2/8/2023	4		369		n/a	0	n/a n/a	n/a		NP Inter (normality) 1 of 2
Chloride (mg/L) Chloride (mg/L)	YGWC-42	12		2/8/2023	3.4		369			0		n/a		NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-42	12	n/a n/a	2/8/2023	2.4		369		n/a n/a	0	n/a n/a	n/a		NP Inter (normality) 1 of 2
										0				, ,,
Chloride (mg/L)	YGWC-49	12	n/a	2/9/2023	4.4 5.9		369		n/a	0	n/a	n/a		NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-36A	12	n/a	2/9/2023			369		n/a		n/a	n/a		NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-24SB	12	n/a	2/10/2023	9.1		369		n/a	0	n/a	n/a		NP Inter (normality) 1 of 2
Fluoride (mg/L)	YGWC-23S	0.68	n/a	2/8/2023	0.1ND		138		n/a	64.16	n/a	n/a		NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-38	0.68	n/a	2/8/2023	0.1ND		138		n/a	64.16	n/a	n/a		NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-41	0.68	n/a	2/8/2023	0.1ND		138		n/a	64.16	n/a	n/a		NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-42	0.68	n/a	2/8/2023	0.08J		138		n/a	64.16	n/a	n/a		NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-43	0.68	n/a	2/8/2023	0.11		138		n/a	64.16	n/a	n/a		NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-49	0.68	n/a	2/9/2023	0.1ND		138		n/a	64.16	n/a	n/a		NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-36A	0.68	n/a	2/9/2023	0.1ND	No 4			n/a	64.16	n/a	n/a		NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-24SB	0.68	n/a	2/10/2023	0.051J		138		n/a	64.16	n/a	n/a		NP Inter (NDs) 1 of 2
pH (S.U.)	YGWC-23S YGWC-38	8.39	4.4	2/8/2023 2/8/2023	5.33		148		n/a n/a	0	n/a	n/a		NP Inter (normality) 1 of 2
pH (S.U.)		8.39	4.4		5.16		148				n/a	n/a		NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-41	8.39	4.4	2/8/2023	4.69		148		n/a	0	n/a	n/a		NP Inter (normality) 1 of 2  NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-42 YGWC-43	8.39	4.4	2/8/2023 2/8/2023	5.48	No 4			n/a	0	n/a	n/a		, ,,,
pH (S.U.)		8.39	4.4		5.4	No 4			n/a		n/a	n/a		NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-49	8.39	4.4	2/9/2023	5.61	No 4			n/a	0	n/a	n/a		NP Inter (normality) 1 of 2  NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-36A YGWC-24SB	8.39 8.39	4.4	2/9/2023 2/10/2023	5.67 5.67	No 4			n/a	0	n/a	n/a		NP Inter (normality) 1 of 2  NP Inter (normality) 1 of 2
pH (S.U.)			4.4						n/a		n/a	n/a		, ,,
Sulfate (mg/L)	YGWC-23S	160	n/a	2/8/2023	78	No 3			n/a	5.962	n/a	n/a		NP Inter (normality) 1 of 2
Sulfate (mg/L) Sulfate (mg/L)	YGWC-38 YGWC-41	<b>160</b> 160	n/a	<b>2/8/2023</b> 2/8/2023	<b>251</b> 119	Yes 3 No 3			n/a	5.962	n/a	n/a		NP Inter (normality) 1 of 2  NP Inter (normality) 1 of 2
, ,			n/a						n/a	5.962	n/a	n/a		, ,,
Sulfate (mg/L)	YGWC-42	160	n/a	2/8/2023	494	Yes 3			n/a	5.962	n/a	n/a		NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-43	160	n/a	2/8/2023	164	Yes 3			n/a	5.962	n/a	n/a		NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-49 YGWC-36A	160	n/a	2/9/2023	71.1	No 3			n/a	5.962	n/a	n/a		NP Inter (normality) 1 of 2  NP Inter (normality) 1 of 2
Sulfate (mg/L)		160	n/a	2/9/2023	50.8		369		n/a	5.962	n/a	n/a		, ,,,
Sulfate (mg/L)	YGWC-24SB	160	n/a	2/10/2023	0.5J		369		n/a	5.962	n/a None	n/a		NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-23S	225	n/a	2/8/2023	158			10.11	2.582	0.542	None	sqrt(x)		Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-38	225	n/a	2/8/2023	579 257			10.11	2.582	0.542	None	sqrt(x)		Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-41	225	n/a	2/8/2023	257			10.11	2.582	0.542	None	sqrt(x)		Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-42	225	n/a	2/8/2023	853			10.11	2.582	0.542	None	sqrt(x)		Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-43	225	n/a	2/8/2023	333 145			10.11	2.582	0.542	None	sqrt(x)		Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-49	225	n/a	2/9/2023	145			10.11	2.582	0.542	None	sqrt(x)		Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-36A	225	n/a	2/9/2023	116			10.11	2.582	0.542	None	sqrt(x)		Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-24SB	225	n/a	2/10/2023	66	INO 3	บบช	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 Calc. Critical Sig. <u>N</u> <u>%NDs</u> <u>Normality</u> <u>Xform</u> <u>Alpha</u> Method YGWA-39 (bg) 0.0181 75 63 17 5.882 n/a NP Boron (mg/L) Yes 0.01 n/a Boron (mg/L) YGWA-40 (bg) -0.01412 -91 -63 Yes 17 0 n/a n/a 0.01 NP YGWC-38 NP Boron (ma/L) -3.533 -114 -63 17 0 0.01 Yes n/a n/a Boron (mg/L) YGWC-41 -2.235 -96 -63 17 0 0.01 NP YGWC-42 NP Boron (mg/L) -1.379 -63 17 0 -87 Yes n/a n/a 0.01 YGWC-43 0.506 86 63 17 0 0.01 ΝP Boron (mg/L) YGWA-47 (bg) NP Boron (mg/L) -0.0007791 -66 -63 Yes 17 0 n/a n/a 0.01 Calcium (mg/L) YGWA-17S (bg) 0 ΝP 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 n/a 0.01 ΝP NP Calcium (mg/L) YGWA-39 (bg) 1.642 69 63 Yes 17 0 n/a n/a 0.01 Calcium (mg/L) YGWA-5D (bg) -1.44 -101 20 0 0.01 NP Yes n/a n/a 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 Yes 17 n/a 0.01 ΝP 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 17 5.882 NP Yes n/a 0.01 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 0.01 NP n/a n/a n/a Calcium (mg/L) YGWA-1I (bg) -0.08713 -95 -81 Yes 20 0 0.01 NP Sulfate (mg/L) YGWA-18I (bg) -0.1242 -93 -81 20 20 n/a n/a 0.01 NP Yes Sulfate (mg/L) YGWA-39 (bg) -2.618 -90 -63 Yes 17 0 n/a n/a 0.01 NP YGWA-40 (bg) -8.078 NP Sulfate (mg/L) -103 -63 Yes 17 0 n/a 0.01 n/a YGWA-5D (bg) -2.638 -81 20 0 ΝP 0 NP Sulfate (mg/L) YGWA-5I (bg) 0.1006 134 81 Yes 20 n/a n/a 0.01 Sulfate (mg/L) YGWC-38 -141.8 -125 -63 17 0 n/a 0.01 ΝP Sulfate (mg/L) YGWC-42 -98.05 -101 -63 17 0 0.01 NP Yes n/a n/a YGWA-47 (bg) -121 17 ΝP Sulfate (mg/L) 0 0.01 NP Sulfate (mg/L) GWA-2 (bg) 14.48 88 68 Yes 18 0 n/a n/a 0.01 Sulfate (mg/L) YGWA-1D (bg) 0.9678 140 81 Yes 20 0 n/a n/a 0.01 YGWA-3D (bg) Sulfate (mg/L) 0.3151 105 81 Yes 20 0 n/a n/a 0.01 NP Sulfate (mg/L) YGWA-3I (bg) 0.9326 Yes 20 0 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 0.01 ΝP n/a 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 -100 -63 17 0 NP -191 Yes n/a n/a 0.01 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 NΡ Total Dissolved Solids (mg/L) YGWA-47 (bg) -13.38 -63 17 0 NP -101 Yes n/a n/a 0.01

### Appendix III Trend Tests - All Results

Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/26/2023, 11:26 AM Constituent Calc. Critical Sig. N %NDs Normality Xform <u>Alpha</u> Method YGWA-17S (bg) 0.0003162 37 81 No 20 10 0.01 NP Boron (mg/L) n/a n/a Boron (mg/L) YGWA-18I (bg) 0 -18 -81 No 20 80 n/a n/a 0.01 NP 0.0004242 NP Boron (ma/L) YGWA-18S (ba) 39 81 25 0.01 No 20 n/a n/a Boron (mg/L) YGWA-20S (bg) 0 -7 -81 No 20 90 0.01 NP YGWA-21I (bg) 0 -81 20 60 0.01 NP Boron (mg/L) -48 No n/a n/a YGWA-39 (bg) 0.0181 75 63 17 NP Boron (mg/L) Yes 5.882 n/a 0.01 YGWA-40 (bg) -0.01412 0 NP Boron (mg/L) -91 -63 Yes 17 n/a n/a 0.01 Boron (mg/L) YGWA-4I (bg) 0 No 20 70 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 No 20 65 n/a n/a 0.01 NP NP Boron (mg/L) YGWC-23S 0.01895 15 81 No 20 0 n/a n/a 0.01 Boron (mg/L) YGWC-38 -3.533 -114 -63 17 0 0.01 NP Yes n/a n/a YGWC-41 Boron (mg/L) -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 YGWA-47 (bg) -0.0007791 -66 -63 17 0 NP Boron (mg/L) Yes n/a 0.01 n/a 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 0 NP Boron (mg/L) YGWA-30I (bg) -16 -81 No 20 0.01 85 n/a n/a YGWA-3D (bg) 0 8 81 No 20 60 0.01 NΡ Boron (mg/L) 0 NP Boron (mg/L) YGWA-3I (bg) -15 -81 No 20 90 n/a n/a 0.01 Calcium (mg/L) YGWA-17S (bg) 0.137 126 81 Yes 20 0 n/a 0.01 NΡ Calcium (mg/L) YGWA-18I (bg) 0.06151 41 81 0 0.01 NP No 20 n/a n/a -0.07974 NP Calcium (mg/L) YGWA-18S (bg) -131 -81 Yes 20 0 n/a n/a 0.01 0.03077 YGWA-20S (bg) 20 0 NP 57 81 No 0.01 Calcium (mg/L) n/a n/a Calcium (mg/L) YGWA-21I (bg) 0.7925 98 81 Yes 20 0 n/a 0.01 NP n/a YGWA-39 (bg) Calcium (mg/L) 1.642 69 63 Yes 17 0 n/a n/a 0.01 NP Calcium (mg/L) YGWA-40 (ba) -0.5174 -42 -63 No 5.882 n/a 0.01 NP 0.09322 0 Calcium (mg/L) YGWA-4I (bg) 24 81 Nο 20 n/a n/a 0.01 NP Calcium (mg/L) YGWA-5D (bg) -1.44 -101 -81 Yes 20 0 n/a 0.01 NP n/a Calcium (mg/L) YGWA-5I (bg) 0.06857 92 81 Yes 20 0 n/a n/a 0.01 NP YGWC-38 -27.66 -122 -63 17 0 NP Calcium (mg/L) Yes n/a n/a 0.01 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 ΝP Calcium (mg/L) GWA-2 (bg) 2.992 85 68 Yes 18 5.556 n/a n/a 0.01 NP 0 NP Calcium (mg/L) YGWA-14S (bg) 81 No 20 0 0.01 n/a n/a Calcium (mg/L) YGWA-1D (bg) 0.5761 98 81 Yes 20 0 n/a 0.01 NP n/a NP Calcium (mg/L) YGWA-1I (bg) -0.08713 -95 -81 Yes 20 0 n/a n/a 0.01 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 (ba) 0.01674 45 81 20 0 0.01 NP No n/a n/a 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 (ba) 0.5034 67 0 NP 81 No 20 0.01 n/a n/a YGWA-17S (bg) 0.02875 23 20 0 NP Sulfate (mg/L) No 0.01 -0.1242 20 NP Sulfate (mg/L) YGWA-18I (bg) -93 -81 Yes 20 n/a n/a 0.01 Sulfate (mg/L) YGWA-18S (bg) -0.1096 -55 -81 No 20 10 0.01 NΡ n/a Sulfate (mg/L) YGWA-20S (bg) 0 48 81 No 70 0.01 NP 20 n/a n/a -0.2092 NP Sulfate (mg/L) YGWA-21I (bg) -55 -81 No 20 0 n/a n/a 0.01 -2.618 NP Sulfate (mg/L) YGWA-39 (bg) -90 -63 Yes 17 0 n/a n/a 0.01 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 20 0 n/a n/a 0.01 ΝP Yes 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

Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/26/2023, 11:26 AM Plant Yates Constituent Calc. Critical Sig. N <u>%NDs</u> <u>Normality</u> <u>Xform</u> <u>Alpha</u> Method YGWC-38 -141.8 -125 -63 17 0 NP Sulfate (mg/L) Yes 0.01 n/a n/a Sulfate (mg/L) YGWC-42 -98.05 -101 -63 Yes 17 0 n/a n/a 0.01 NP YGWC-43 47 NP Sulfate (mg/L) 18.06 63 17 0 0.01 No n/a n/a Sulfate (mg/L) YGWA-47 (bg) -15.39 -121 -63 17 0 0.01 NP GWA-2 (bg) NP Sulfate (mg/L) 14.48 68 18 0 88 Yes n/a n/a 0.01 Sulfate (mg/L) YGWA-14S (bg) -0.02207 -14 -81 No 20 0 n/a n/a 0.01 NP YGWA-1D (bg) 0.9678 NP Sulfate (mg/L) 140 81 Yes 20 0 n/a n/a 0.01 Sulfate (mg/L) YGWA-1I (bg) -0.04757 -81 No 0 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 No 20 10 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 20 0 0.01 NP Yes n/a n/a Total Dissolved Solids (mg/L) YGWA-17S (bg) 2.621 20 0 NP 47 81 No n/a n/a 0.01 Total Dissolved Solids (mg/L) YGWA-18I (bg) -1.319 -26 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 0.01 NP n/a n/a 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 17 0 0.01 NP Yes n/a n/a 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 NΡ Total Dissolved Solids (mg/L) YGWA-5D (bg) -11.59 -90 -81 Yes 20 0 n/a n/a 0.01 NP YGWA-5I (bg) NP Total Dissolved Solids (mg/L) -0.8043 -16 -81 No 20 0 n/a 0.01 n/a Total Dissolved Solids (mg/L) YGWC-38 -191 -100 -63 17 0 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 17 0 n/a 0.01 NΡ Total Dissolved Solids (mg/L) YGWC-43 57.74 76 63 17 0 0.01 NP Yes n/a n/a Total Dissolved Solids (mg/L) YGWA-47 (bg) -101 -63 17 0 NP Yes n/a Total Dissolved Solids (mg/L) GWA-2 (bg) 68 0 NP 17.72 66 18 0.01 No n/a n/a Total Dissolved Solids (mg/L) YGWA-14S (bg) 0.3652 16 No 20 0 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) -18 No 20 0 n/a n/a 0.01 NP Total Dissolved Solids (mg/L) 0 YGWA-2I (bg) -0.8152 -19 -81 No 20 n/a n/a 0.01 NP Total Dissolved Solids (mg/L) NP YGWA-30I (bg) 1.488 24 81 No 20 10 n/a 0.01 n/a YGWA-3D (bg) Total Dissolved Solids (mg/L) 81 0 0.01 NP 0.3218 No 20 n/a n/a Total Dissolved Solids (mg/L) 0.01 NP YGWA-3I (bg) 0.862 No 20 0 n/a n/a

## **Upper Tolerance Limits Summary Table**

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/26/2023, 11:28 AM %NDs ND Adj. Constituent <u>Well</u> Upper Lim. Lower Lim. <u>Date</u> Observ. Sig.Bg N Bg Mean Std. Dev. Transform Alpha Method 0.0047 n/a 391 n/a 87.98 n/a Antimony (mg/L) n/a n/a n/a n/a n/a n/a NaN NP Inter(NDs) 0.005 n/a 439 n/a 74.72 n/a NP Inter(NDs) Arsenic (mg/L) n/a n/a n/a n/a n/a n/a NaN Barium (mg/L) 0.21 n/a 439 n/a 2.506 n/a NaN NP Inter(normality) n/a n/a n/a n/a n/a n/a Beryllium (mg/L) 0.0011 n/a n/a 423 n/a 79.43 n/a NaN NP Inter(NDs) 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 391 n/a 80.05 n/a n/a NaN Cobalt (mg/L) 0.035 n/a 433 n/a NP Inter(NDs) 69.05 n/a NaN n/a n/a n/a n/a n/a n/a Combined Radium 226 + 228 (pCi/L) 6.92 n/a 418 n/a 0 NaN NP Inter(normality) 0.68 n/a 438 n/a 64.16 n/a NaN NP Inter(NDs) Fluoride (mg/L) n/a n/a n/a n/a n/a n/a Lead (mg/L) n/a 0.0013 n/a 393 n/a 86.01 n/a NaN NP Inter(NDs) 0.03 NP Inter(normality) Lithium (mg/L) n/a 418 n/a 25.84 n/a NaN n/a n/a n/a n/a n/a Mercury (mg/L) n/a 0.00064 n/a 347 n/a 91.93 n/a NaN NP Inter(NDs) 0.014 n/a 382 n/a NP Inter(NDs) Molybdenum (mg/L) 60.99 n/a NaN n/a n/a n/a n/a n/a n/a Selenium (mg/L) n/a 0.005 n/a 421 n/a 92.64 n/a NaN NP Inter(NDs)

n/a 357 n/a

97.2 n/a

n/a

NaN

n/a

NP Inter(NDs)

Thallium (mg/L)

0.001

n/a

n/a

n/a

n/a

YATE	S AMA-R6 C	<b>SWPS</b>		
		CCR-Rule	Background	
Constituent Name	MCL	Specified	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

<sup>\*</sup>Grey cell indicates Background Limit is higher than MCL or CCR Rule Specified Level

<sup>\*</sup>MCL = Maximum Contaminant Level

<sup>\*</sup>CCR = Coal Combustion Residual

<sup>\*</sup>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.	<u>N</u>	<u>Mean</u>	Std. Dev.	%ND	s ND Adj.	Transform	<u>Alpha</u>	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 )	P7-37	0 2801	0.2029	0.05	Yes	15	0 2415	0.05697	0	None	No	0.01	Param

### Confidence Intervals - All Results

Client: Southern Company

Data: Plant Yates AMA-R6

Printed 5/16/2023, 8:25 AM

Constituent Well Sig. <u>N</u> Mean Std. Dev. %NDs ND Adj. Alpha Method Lower Lim. **Transform** PZ-35 0.003 0.00039 9 0.00271 0.00087 88.89 None 0.002 NP (NDs) Antimony (mg/L) 0.006 No No 0.0008973 0.01 NP (NDs) Antimony (mg/L) PZ-37 0.003 0.0014 0.006 No 15 0.002577 80 None No PZ-37D 0.003 0.0015 0.002625 0.00075 75 0.0625 NP (NDs) Antimony (ma/L) 0.006 No None No 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 7 0.002053 0.001191 57.14 0.008 NP (NDs) No None No Antimony (mg/L) YAMW-5 0.003 0.00033 0.006 No 7 0.002619 0.001009 None 0.008 NP (NDs) 85.71 No YGWC-23S 0.003 0.00085 NP (NDs) Antimony (mg/L) 0.006 No 20 0.002633 0.000901 85 None No 0.01 Antimony (mg/L) YGWC-24SB 0.003 0.0009 0.006 No 0.002889 0.0004818 None No 0.01 NP (NDs) 0.0041 Antimony (mg/L) YGWC-36A 0.0015 0.006 No 20 0.0039 0.00582 50 None Nο 0.01 NP (normality) Antimony (mg/L) YGWC-38 0.003 0.0015 0.006 No 0.002474 0.001003 76.47 None No NP (NDs) YGWC-41 0.003 0.0014 0.002906 0.0003881 Antimony (mg/L) 0.006 No 17 94.12 None Nο 0.01 NP (NDs) YGWC-42 0.00053 0.002855 0.0005991 NP (NDs) Antimony (mg/L) 0.003 0.006 94.12 None No 0.01 YGWC-43 0.00031 0.0006524 0.003 0.006 0.002842 94.12 None NP (NDs) Antimony (mg/L) No No 0.01 Antimony (mg/L) YGWC-49 0.003 0.0011 0.006 No 0.002743 0.0007326 88.24 None No NP (NDs) P7-35 Arsenic (ma/L) 0.005 0.00096 0.01 Nο 10 0 003625 0.001858 60 Kaplan-Meier Nο 0.011 NP (NDs) Arsenic (mg/L) 0.005 0.00094 0.01 No 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 Nο 0.011 NP (NDs) Arsenic (mg/L) YAMW-4 0.005 0.00079 0.01 No 0.003299 0.001867 42.86 None No 800.0 NP (normality) Arsenic (mg/L) YAMW-5 0.003443 0.0008822 0.01 No 0.003379 0.001754 42.86 Kaplan-Meier Nο 0.01 Param. Kaplan-Meier Arsenic (mg/L) YGWC-23S 0.005 0.0025 0.01 No 0.004714 0.0009483 90.91 Nο 0.01 NP (NDs) Arsenic (mg/L) YGWC-24SB 0.005 0.0035 0.01 No 21 0.004638 0.000962 85.71 None Nο 0.01 NP (NDs) YGWC-36A 0.0047 Arsenic (mg/L) 0.005 0.01 No 22 0.004038 0.001789 72.73 None No 0.01 NP (NDs) YGWC-38 0.0023 0.00072 0.01 No 0.002026 0.001701 None No NP (normality) Arsenic (mg/L) 18 22.22 0.01 0.005 0.00072 Arsenic (mg/L) YGWC-41 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 0.002471 0.001327 16.67 Kaplan-Meier sqrt(x) 0.01 Param. YGWC-43 0.005 0.0022 0.01 No 18 0.004039 0.001695 72.22 Kaplan-Meier 0.01 NP (NDs) Arsenic (mg/L) No YGWC-49 0.005 0.001 0.01 No 0.004262 0.001644 82.35 Kaplan-Meier No 0.01 NP (NDs) Arsenic (mg/L) PZ-35 0.09056 0.03164 2 0.0611 0.03302 Barium (mg/L) 0 None 0.01 Param. No No PZ-37 0.05259 0.03422 2 0.04341 0.01356 Barium (mg/L) No 15 0 None No 0.01 Param. PZ-37D 0.033 0.013 2 0.01975 Barium (mg/L) No 4 0.009069 0 None No 0.0625 NP (selected) Barium (mg/L) YAMW-1 0.07559 0.03621 2 0.0559 0.02207 0 None No 0.009272 0.006756 2 0.008014 Param Barium (mg/L) YAMW-2 Nο 0.001059 n None Nο 0.01 Barium (mg/L) YAMW-4 0.021 0.003 2 No 0.008614 0.008204 0 None No NP (normality) 2 YAMW-5 0.057 0.034 0.04014 0.007988 0.008 NP (normality) Barium (mg/L) No 7 0 None Nο Barium (mg/L) YGWC-23S 0.04724 0.03277 2 No 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 Nο 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 Nο 0.01 Param 0.02814 0.02032 2 0 Barium (mg/L) YGWC-41 No 0.02423 0.006464 0.01 Param. 18 No None Barium (mg/L) YGWC-42 0.04281 0.02937 2 No 18 0.03609 0.01111 0 None No 0.01 Param. YGWC-43 0.03348 0.01907 18 0.02627 0.01191 0 0.01 Param. Barium (mg/L) No None No Barium (mg/L) YGWC-49 0.07733 0.06751 2 No 17 0.07242 0.007833 0 None No 0.01 Param. Bervllium (ma/L) PZ-35 0.003 0.00025 0.004 No 0.00092 0.001041 18.18 None No 0.006 NP (normality) Beryllium (mg/L) PZ-37 0.0008051 0.0002982 0.004 No 0.000632 0.0004727 13.33 None 0.01 Param. 15 In(x) 0.0005 YAMW-1 0.000095 0.004 10 0.0002913 0.000198 40 0.011 NP (normality) Bervllium (ma/L) No No None YAMW-2 0.0005 0.000051 0.004 0.000186 0.0002146 Beryllium (mg/L) No 28.57 None No 0.008 NP (normality) YAMW-5 0.0001549 0.0001016 0.004 0.0001283 0.0000251 0 0.01 Param. Beryllium (mg/L) No 8 None No YGWC-23S 0.00023 0.00009 0.004 No 0.0007785 0.001234 22.73 None NP (normality) Beryllium (mg/L) No 0.01 Beryllium (mg/L) YGWC-24SB 0.00016 0.0001 0.004 No 21 0.000315 0.0004966 14.29 None Nο 0.01 NP (normality) 0.0003907 0.0001957 0.0003436 Beryllium (mg/L) YGWC-36A 0.004 No 0.000292 None In(x) 0.01 YGWC-38 0.0056 0.0028 0.004228 0.001375 Beryllium (mg/L) 0.004 No 18 0 None Nο 0.01 NP (normality) Beryllium (mg/L) YGWC-41 0.0037 0.0015 0.004 No 18 0.002633 0.001035 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 Nο 0.01 NP (NDs) YGWC-43 Beryllium (mg/L) 0.003 0.0003 0.004 No 0.001234 0.00129 33.33 None No NP (normality) YGWC-49 0.00015 0.0001 0.004 Nο 0.0001994 0.0003358 NP (normality) Beryllium (mg/L) 5.882 None Nο

# Confidence Intervals - All Results Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/16/2023, 8:25 AM

	Pla	int Yates Clie	nt: Southern Cor	mpany Data	: Plan	t Ya	tes AMA-R6	Printed 5/16/20	023, 8:2	5 AM			
Constituent	<u>Well</u>	Upper Lim.	Lower Lim.	Compliance	Sig.	<u>N</u>	Mean	Std. Dev.	%NDs	ND Adj.	Transform	<u>Alpha</u>	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	, ,
Chromium (mg/L)	YGWC-23S	0.005	0.00086	0.1	No		0.003474	0.001985		None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-24SB	0.005	0.0011	0.1	No		0.004302	0.001554		None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-36A	0.005	0.0035	0.1	No		0.004249	0.001542		None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-38	0.005	0.00065	0.1	No		0.004508	0.001431		None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-41	0.005	0.00039	0.1	No		0.004744	0.001087		None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-42	0.005	0.0013	0.1	No		0.004296	0.001627		None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-43	0.005	0.00074	0.1	No		0.004032	0.001865		None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-49	0.002	0.00074	0.1	No		0.001975	0.0008434	6.25	None	No	0.01	NP (normality)
Cobalt (mg/L)	PZ-35	0.002	0.005	0.035	No		0.00509	0.0002846	90	None	No	0.011	NP (NDs)
Cobalt (mg/L)	PZ-33	0.003	0.003	0.035	No		0.00309	0.0002840	0	None	sqrt(x)	0.011	Param.
	YAMW-1	0.0223	0.005725	0.035	No		0.007327	0.01018	18.18		No No	0.01	Param.
Cobalt (mg/L)	YAMW-2	0.0223	0.00392	0.035	No	7	0.002153	0.002202		None			
Cobalt (mg/L)		0.000440	0.0003100						0		sqrt(x)	0.01	Param.
Cobalt (mg/L)	YAMW-4			0.035	No	7	0.0006186	0.0002249		None	No	0.01	Param.
Cobalt (mg/L)	YAMW-5	0.005	0.00077	0.035	No	7	0.004396	0.001599		None	No	0.008	NP (NDs)
Cobalt (mg/L)	YGWC-36A	0.005		0.035	No		0.003986	0.001915		None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-41	0.005	0.0011	0.035	No		0.004022	0.00189		None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-42	0.002174	0.001682	0.035	No		0.001928	0.000407		None	No	0.01	Param.
Cobalt (mg/L)	YGWC-43	0.005	0.0006	0.035	No		0.002886	0.00189		None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-49	0.005	0.0008	0.035	No		0.003971	0.001914		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		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		5 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		5 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	, ,
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		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		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		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

Client: Southern Company

Data: Plant Yates AMA-R6

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Upper Lim. Constituent Well Sig. <u>N</u> Mean Std. Dev. %NDs ND Adj. <u>Transform</u> <u>Alpha</u> Method Lower Lim YAMW-4 0.1107 0.06478 4 No 7 0.1053 0.02559 42.86 Kaplan-Meier Param. Fluoride (mg/L) sqrt(x) 0.01 YAMW-5 71.43 Kaplan-Meier NP (NDs) Fluoride (mg/L) 0.1 0.05 4 No 7 0.08643 0.02322 No 0.008 YGWC-23S 0.057 4 0.09374 0.02005 NP (NDs) Fluoride (ma/L) 0.12 Nο 82.61 Kaplan-Meier No 0.01 Fluoride (mg/L) YGWC-24SB 0.1 0.098 4 No 0.09464 0.01727 86.36 None No 0.01 NP (NDs) Fluoride (mg/L) YGWC-36A 0.094 4 No 0.09374 0.02997 69.57 Kaplan-Meier No 0.01 NP (NDs) 0.1 Fluoride (mg/L) YGWC-38 0.21 0.034 No 0.1486 0.107 68.42 Kaplan-Meier NP (NDs) 19 No 0.01 Fluoride (mg/L) YGWC-41 0.11 0.1 NP (NDs) No 19 0.1005 0.002294 89.47 Kaplan-Meier No 0.01 Fluoride (mg/L) YGWC-42 0.1 0.06 No 0.08547 0.0247 68.42 None No NP (NDs) 0.06255 4 Fluoride (mg/L) YGWC-43 0.1061 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 No 0.09944 0.02363 Kaplan-Meier NP (NDs) PZ-35 0.000087 0.015 0.0008041 0.000389 77.78 None 0.002 NP (NDs) Lead (mg/L) 0.001 No 9 Nο PZ-37 0.0001 0.0007115 0.0004235 Lead (mg/L) 0.001 0.015 No 66.67 None No 0.01 NP (NDs) 0.00019 0.00027 YAMW-1 0.001 0.015 9 0.00091 0.002 NP (NDs) Lead (mg/L) No 88.89 None No 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 Nο 7 0.0007023 0.000393 57 14 None Nο 0.008 NP (NDs) 0.001 No 0.0006034 0.000495 No 0.008 NP (NDs) Lead (mg/L) 0.001 Lead (mg/L) YGWC-23S 0.00044 0.015 Nο 20 0.0008413 0.0003325 80 None Nο 0.01 NP (NDs) Lead (mg/L) YGWC-24SB 0.001 0.00036 0.015 No 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 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 Nο 0.01 NP (NDs) YGWC-42 0.001 0.0002 NP (NDs) Lead (mg/L) 0.015 No 18 0.0007995 0.0003871 77.78 None No 0.01 YGWC-43 0.001 0.00008 0.015 No 0.0008975 0.0002983 88.89 No NP (NDs) Lead (mg/L) 18 None 0.01 YGWC-49 0.001 0.000059 0.0009446 0.0002282 NP (NDs) Lead (mg/L) 0.015 No 94.12 None No 0.01 Lithium (mg/L) PZ-35 0.011 0.0011 0.04 No 0.00399 0.004873 10 None No 0.011 NP (normality) Lithium (ma/L) PZ-37 0.032 0.017 0.04 No 15 0.03158 0.02645 6.667 None Nο 0.01 NP (normality) Lithium (mg/L) PZ-37D 0.0167 0.0007531 0.04 No 0.008725 0.003511 0 No 0.01 None Param. YAMW-1 0.02048 0.007982 0.01423 0.007003 Lithium (mg/L) 0.04 No 10 0.01 Param. None No YAMW-3 0.05992 0.03258 0.04 0.04625 0.006021 Lithium (mg/L) No 0 None No 0.01 Param. Lithium (mg/L) YAMW-4 0.03625 0.02086 7 0.02886 0.04 No 0.006986 0 None x^2 0.01 Param. Lithium (ma/L) YAMW-5 0.01608 0.01306 0.04 0.01457 0.001272 0 YGWC-23S 0.002681 0.002065 0.002373 0.0005742 Lithium (mg/L) 0.04 Nο 22 4 545 None Nο 0.01 Param Lithium (mg/L) YGWC-36A 0.005916 0.002611 0.04 No 0.004649 0.003238 4.545 None 0.01 Param. sqrt(x) YGWC-38 0.008605 0.007139 0.04 0.007872 0.001211 0 Lithium (mg/L) No 18 None Nο 0.01 Param Lithium (mg/L) YGWC-41 0.0043 0.0021 No 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 Nο 0.01 Param. Lithium (mg/L) YGWC-43 0.01791 0.01204 0.04 No 18 0.01497 0.00485 0 None Nο 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 0.0002 0.00019 NP (NDs) Mercury (mg/L) PZ-37 0.002 No 15 0.00019 0.00003606 86.67 None No 0.01 Mercury (mg/L) YGWC-23S 0.0002 0.00015 0.002 No 0.0001911 0.00002686 88.24 None No 0.01 NP (NDs) YGWC-38 0.0002 0.00008 0.002 0.0001811 0.00005045 86.67 0.01 NP (NDs) Mercury (mg/L) No None No Mercury (mg/L) YGWC-41 0.0002 0.00006 0.002 No 0.0001907 0.00003615 93.33 None No 0.01 NP (NDs) Mercury (ma/L) YGWC-42 0.0002 0.000048 0.002 No 0.0001899 0.00003925 93.33 None No 0.01 NP (NDs) Mercury (mg/L) YGWC-43 0.0002 0.00009 0.002 No 0.0001828 0.00004596 86.67 None No 0.01 NP (NDs) 15 YGWC-49 0.0002 0.00014 0.002 14 0.0001858 0.00003931 0.01 NP (NDs) Mercury (ma/L) No 85.71 None No PZ-35 0.01 0.0019 0.008987 0.002864 NP (NDs) Molybdenum (mg/L) 0.1 No 87.5 None No PZ-37 0.01 0.0015 0.1 0.005607 0.004265 46.67 None 0.01 NP (normality) Molybdenum (mg/L) No No Molybdenum (mg/L) PZ-37D 0.0059 0.0018 No 0.00345 0.001816 0 0.0625 NP (selected) 0.1 None No Molybdenum (mg/L) YAMW-1 0.00368 0.001155 0.1 No 8 0.005249 0.004059 37.5 Kaplan-Meier 0.01 Param sart(x) 0.008272 0.005785 0.007029 Molybdenum (mg/L) YAMW-4 0.1 No 0.001047 None No 0.01 YGWC-36A 0.0027 0.1 0.007722 0.003508 NP (NDs) Molybdenum (mg/L) 0.01 No 18 66.67 None Nο 0.01 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) YGWC-43 0.0012 Molybdenum (mg/L) 0.01 0.1 No 18 0.005039 0.004227 38.89 None Nο 0.01 NP (normality) YGWC-49 0.002325 Molvbdenum (ma/L) 0.01 0.0007 0.1 0.009419 93.75 None No NP (NDs) Selenium (ma/L) P7-35 0.005 0.003 Nο 10 0 0042 0.001195 0.011 NP (NDs) 0.05 60 None Nο

## Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/16/2023, 8:25 AM %NDs ND Adj. Constituent Well Upper Lim. Lower Lim.  $\underline{\text{Compliance}} \ \underline{\text{Sig.}} \ \underline{\text{N}} \ \underline{\text{Mean}}$ Std. Dev. Transform Alpha Method PZ-37 0.2801 0.2029 Yes 15 0.2415 0.05697 0 None Param. Selenium (mg/L) No 0.01 0.005 Selenium (mg/L) 0.0027 0.05 No 10 0.00422 0.001164 0.011 NP (normality) YAMW-1 50 None No Selenium (mg/L) YAMW-4 0.02008 0.001939 0.05 No 8 0.01322 0.008018 25 Kaplan-Meier 0.01 Param. No 0.06099 Selenium (mg/L) YAMW-5 0.04008 0.05 0.0505 0.01135 None 0.01 Param. YGWC-23S 0.03882 0.02843 22 0.03362 Selenium (mg/L) 0.05 No 0.009677 0 None No 0.01 Param. 0.005 Selenium (mg/L) YGWC-36A 0.002 0.05 22 0.003477 0.001403 40.91 None No 0.01 NP (normality) Selenium (mg/L) YGWC-38 0.246 0.064 18 0.1496 0.08206 0 NP (normality) 0.05 Yes No 0.01 None Selenium (mg/L) YGWC-41 0.067 0.031 0.05 18 0.04877 0.01783 None No NP (normality) Selenium (mg/L) YGWC-42 0.05382 0.04031 0.05 No 18 0.04706 0.01116 0 No 0.01 Param. None Selenium (mg/L) YGWC-49 0.008439 0.006573 0.05 17 0.007506 0.001489 5.882 None 0.01 Thallium (mg/L) YGWC-49 0.001 0.00009 0.002 15 0.0009393 0.000235 0.01 NP (NDs) No 93.33 None No

# 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
 NNDs
 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

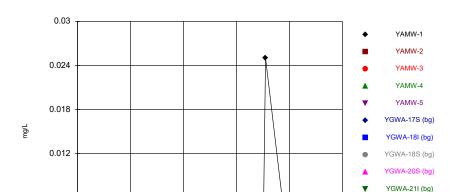
Constituent	Well	Slope	Calc.	Critical	Sig.	<u>N</u>	<u>%NDs</u>	Normality	<u>Xform</u>	<u>Alpha</u>	Method
Selenium (mg/L)	YGWA-17S (bg)	0	106	92	Yes	22	72.73	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-18I (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-18S (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
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) Selenium (mg/L)	YGWC-38 YGWA-47 (bg)	<b>-0.04789</b> 0	<b>-138</b> 21	<b>-68</b> 48	Yes No	<b>18</b> 14	-	<b>n/a</b> n/a	n/a n/a	<b>0.01</b> 0.01	<b>NP</b> NP
, ,							-				
Selenium (mg/L)	YGWA-47 (bg)	0	21	48	No	14	85.71	n/a n/a	n/a	0.01	NP
Selenium (mg/L) Selenium (mg/L)	YGWA-47 (bg) GWA-2 (bg)	0	21 0	48 214	No No	14 39	85.71 100	n/a n/a	n/a n/a	0.01 0.01	NP NP
Selenium (mg/L) Selenium (mg/L) Selenium (mg/L)	YGWA-47 (bg) GWA-2 (bg) YGWA-14S (bg)	0 0 0	21 0 54	48 214 87	No No No	14 39 21	85.71 100 71.43	n/a n/a n/a	n/a n/a n/a	0.01 0.01 0.01	NP NP NP
Selenium (mg/L) Selenium (mg/L) Selenium (mg/L) Selenium (mg/L)	YGWA-47 (bg) GWA-2 (bg) YGWA-14S (bg) YGWA-1D (bg)	0 0 0	21 0 54 0	48 214 87 87	No No No	14 39 21 21	85.71 100 71.43 100	n/a n/a n/a n/a	n/a n/a n/a n/a	0.01 0.01 0.01 0.01	NP NP NP NP
Selenium (mg/L) Selenium (mg/L) Selenium (mg/L) Selenium (mg/L) Selenium (mg/L)	YGWA-47 (bg) GWA-2 (bg) YGWA-14S (bg) YGWA-1D (bg) YGWA-1I (bg)	0 0 0 0	21 0 54 0	48 214 87 87	No No No No	14 39 21 21 21	85.71 100 71.43 100 100	n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a	0.01 0.01 0.01 0.01 0.01	NP NP NP NP
Selenium (mg/L) Selenium (mg/L) Selenium (mg/L) Selenium (mg/L) Selenium (mg/L) Selenium (mg/L)	YGWA-47 (bg) GWA-2 (bg) YGWA-14S (bg) YGWA-1D (bg) YGWA-1I (bg) YGWA-2I (bg)	0 0 0 0 0	21 0 54 0 0	48 214 87 87 87	No No No No No	14 39 21 21 21 21	85.71 100 71.43 100 100	n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a	0.01 0.01 0.01 0.01 0.01 0.01	NP NP NP NP NP
Selenium (mg/L) Selenium (mg/L) Selenium (mg/L) Selenium (mg/L) Selenium (mg/L) Selenium (mg/L) Selenium (mg/L)	YGWA-47 (bg) GWA-2 (bg) YGWA-14S (bg) YGWA-1D (bg) YGWA-1I (bg) YGWA-2I (bg) YGWA-30I (bg)	0 0 0 0 0 0	21 0 54 0 0 0	48 214 87 87 87 87	No No No No No No	14 39 21 21 21 21 21	85.71 100 71.43 100 100 100	n/a n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a n/a	0.01 0.01 0.01 0.01 0.01 0.01	NP NP NP NP NP NP
Selenium (mg/L) Selenium (mg/L) Selenium (mg/L) Selenium (mg/L) Selenium (mg/L) Selenium (mg/L) Selenium (mg/L) Selenium (mg/L)	YGWA-47 (bg) GWA-2 (bg) YGWA-14S (bg) YGWA-1D (bg) YGWA-11 (bg) YGWA-2I (bg) YGWA-30I (bg) YGWA-3D (bg)	0 0 0 0 0 0 0	21 0 54 0 0 0 0	48 214 87 87 87 87 87	No No No No No No	14 39 21 21 21 21 21 21 21	85.71 100 71.43 100 100 100 100	n/a n/a n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a	0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01	NP NP NP NP NP NP NP NP

# FIGURE A.

0.006

6/6/16

10/6/17



Time Series

Constituent: Antimony Analysis Run 4/26/2023 11:03 AM

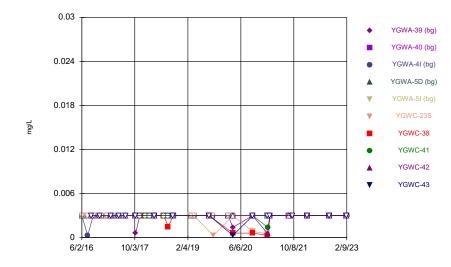
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

6/8/20

10/9/21

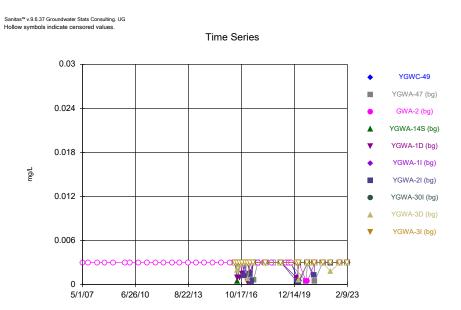
2/9/23

2/6/19



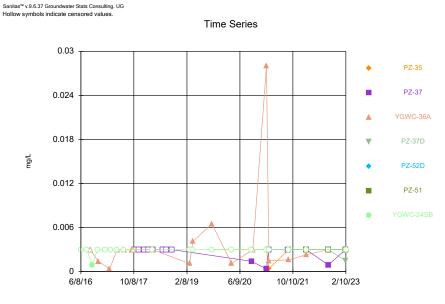
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



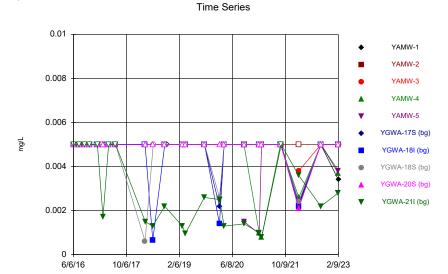
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



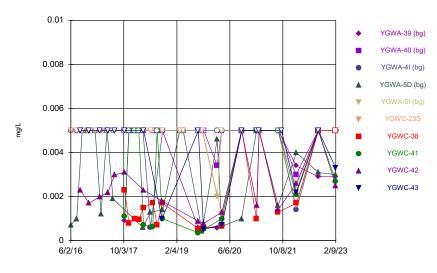
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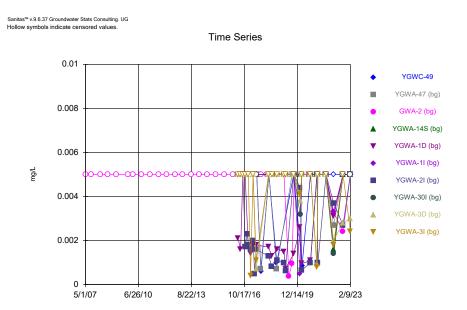


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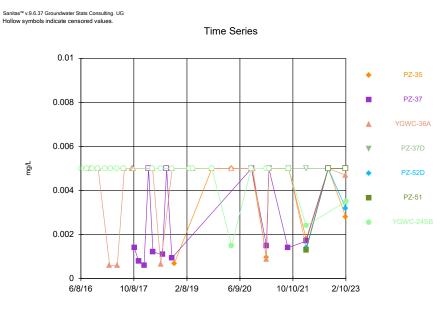
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Constituent: Arsenic Analysis Run 4/26/2023 11:03 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



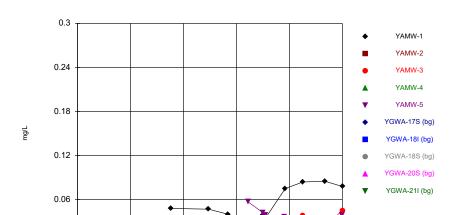
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Arsenic Analysis Run 4/26/2023 11:03 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

6/6/16

10/6/17



Time Series

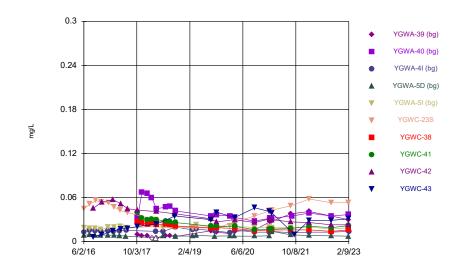
Constituent: Barium Analysis Run 4/26/2023 11:03 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

6/8/20

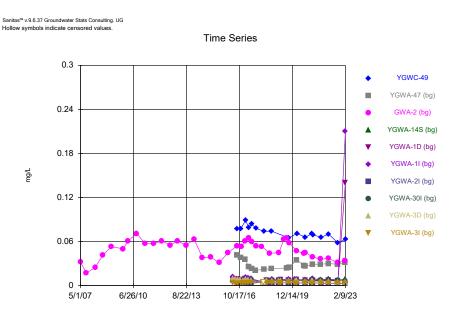
10/9/21

2/9/23

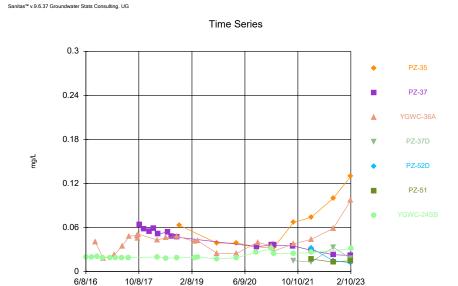
2/6/19



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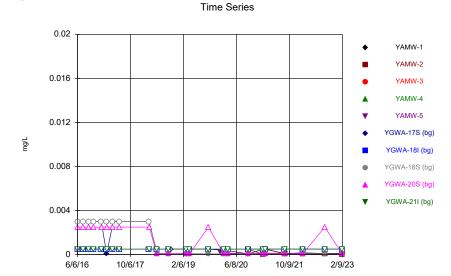


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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

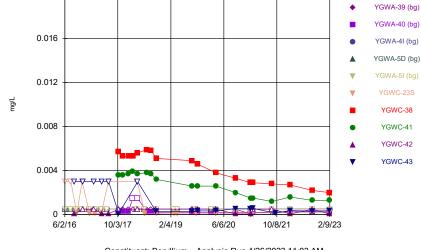


Constituent: Barium Analysis Run 4/26/2023 11:03 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

0.02

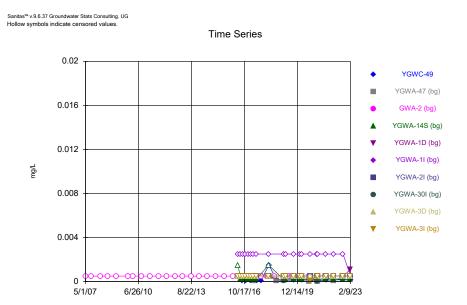


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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

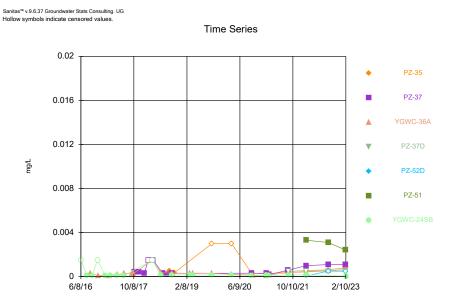


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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



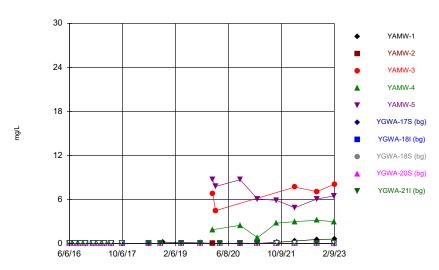
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Beryllium Analysis Run 4/26/2023 11:03 AM

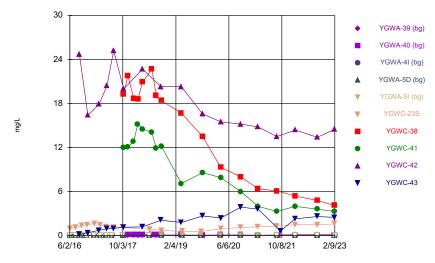
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6





Constituent: Boron Analysis Run 4/26/2023 11:03 AM

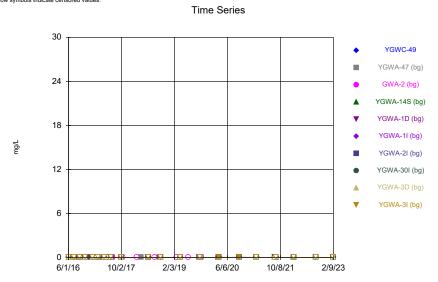
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Constituent: Boron Analysis Run 4/26/2023 11:03 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

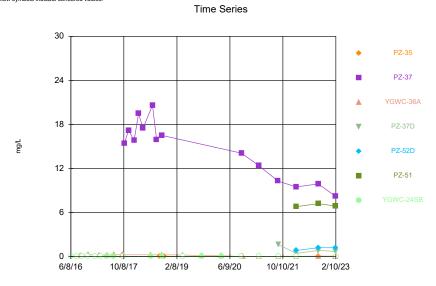
### Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Constituent: Boron Analysis Run 4/26/2023 11:03 AM

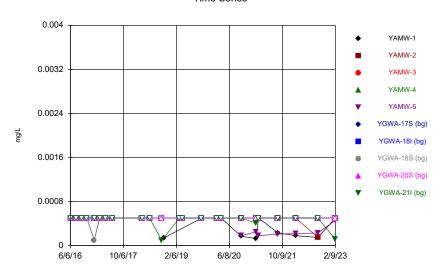
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#### Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

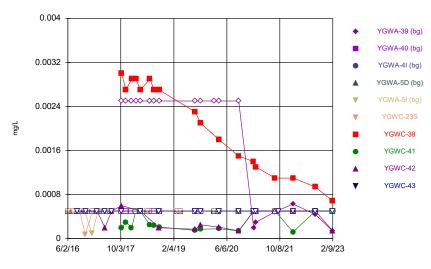


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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6





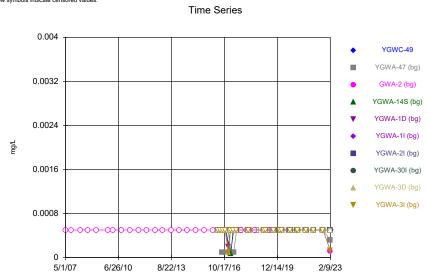
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Constituent: Cadmium Analysis Run 4/26/2023 11:04 AM

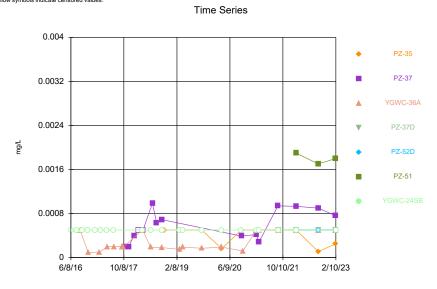
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### Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



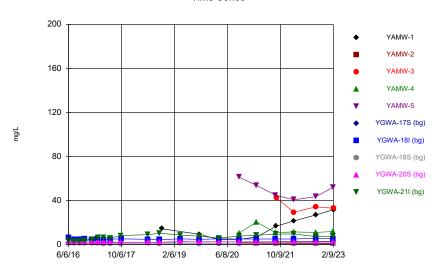
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

### Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Constituent: Cadmium Analysis Run 4/26/2023 11:04 AM

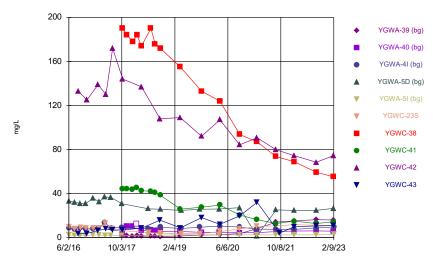
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Constituent: Calcium Analysis Run 4/26/2023 11:04 AM

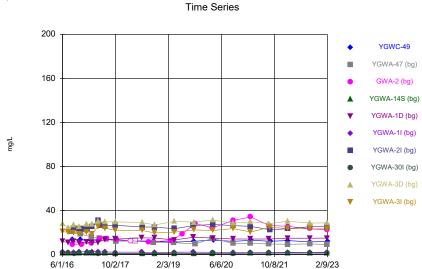
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### Time Series



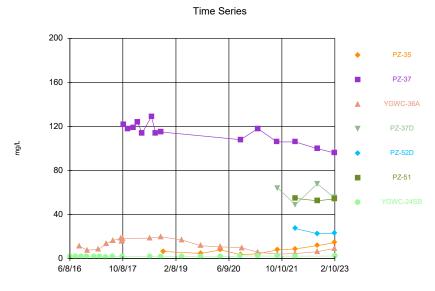
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

### Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

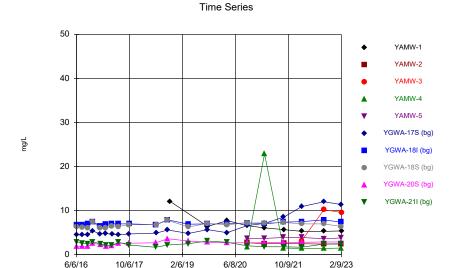


Constituent: Calcium Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

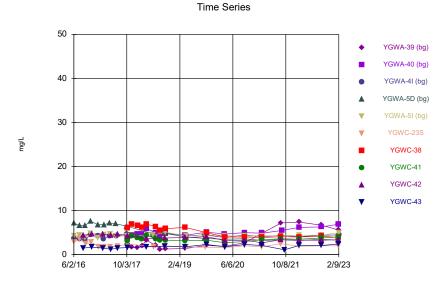
#### Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG



Constituent: Calcium Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

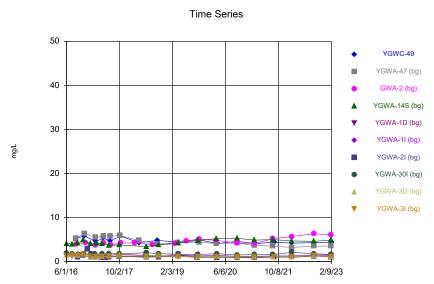


Constituent: Chloride Analysis Run 4/26/2023 11:04 AM



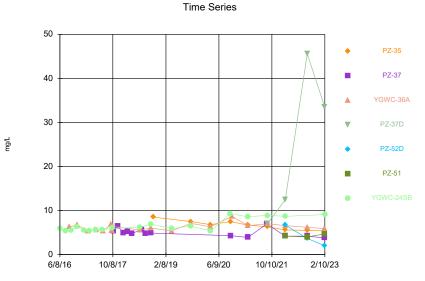
Constituent: Chloride Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG



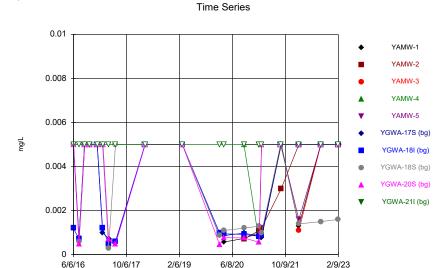
Constituent: Chloride Analysis Run 4/26/2023 11:04 AM

 $Sanitas^{\text{\tiny NM}}\,v.9.6.37\;Groundwater\;Stats\;Consulting.\;UG$ 

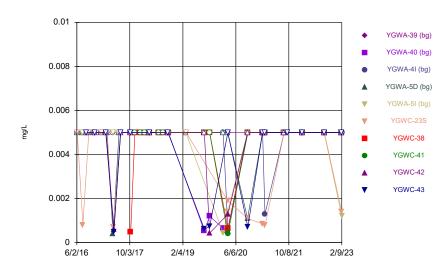


Constituent: Chloride Analysis Run 4/26/2023 11:04 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

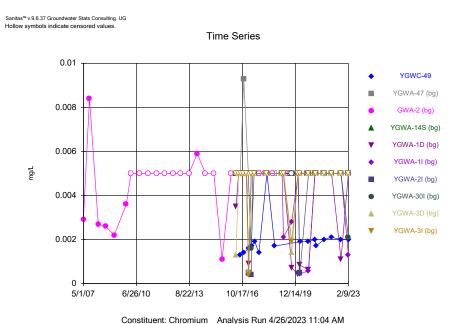


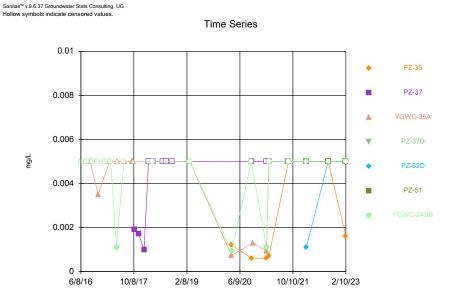
Constituent: Chromium Analysis Run 4/26/2023 11:04 AM



Time Series

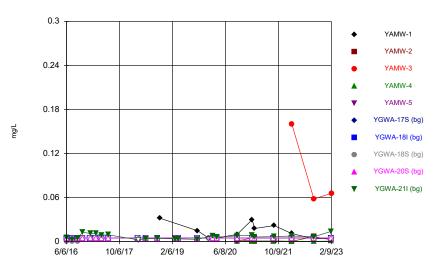
Constituent: Chromium Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6





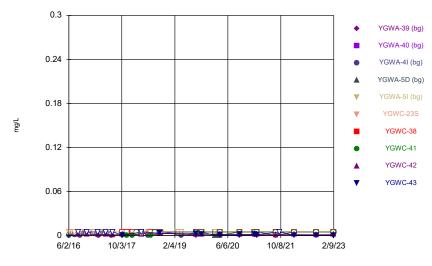
Constituent: Chromium Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6





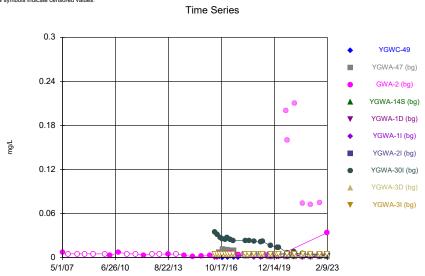
Constituent: Cobalt Analysis Run 4/26/2023 11:04 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Cobalt Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

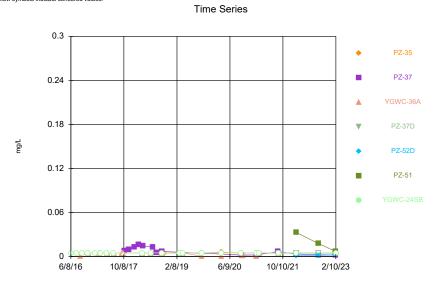
### Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



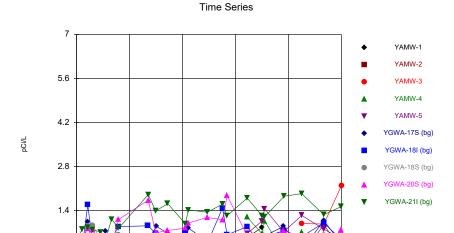
Constituent: Cobalt Analysis Run 4/26/2023 11:04 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

### Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Constituent: Cobalt Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Combined Radium 226 + 228 Analysis Run 4/26/2023 11:04 AM 

6/8/20

10/9/21

2/9/23

2/6/19

## YGWA-39 (bg) YGWA-40 (bg) 5.6 YGWA-4I (bg) YGWA-5D (bg) pCi/L YGWC-38 2.8 YGWC-41 YGWC-42 YGWC-43 6/6/20 2/4/19

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

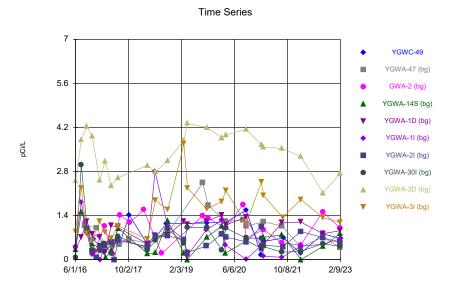
10/8/21

2/9/23

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

6/6/16

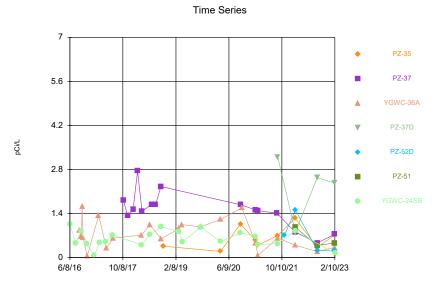
10/6/17



Constituent: Combined Radium 226 + 228 Analysis Run 4/26/2023 11:04 AM 

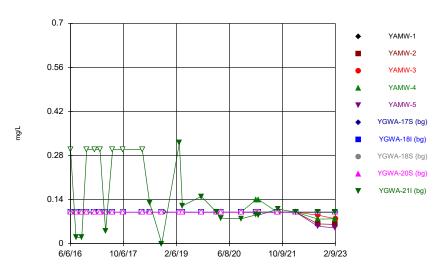
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

6/2/16



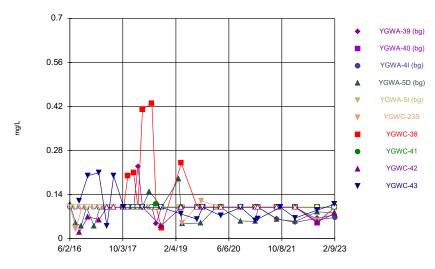
Constituent: Combined Radium 226 + 228 Analysis Run 4/26/2023 11:04 AM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6





Constituent: Fluoride Analysis Run 4/26/2023 11:04 AM

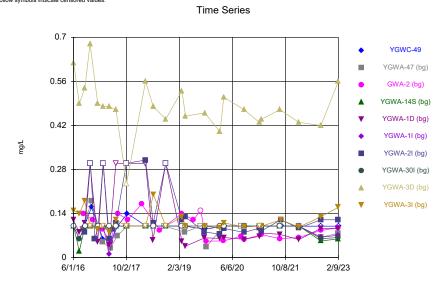
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Fluoride Analysis Run 4/26/2023 11:04 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

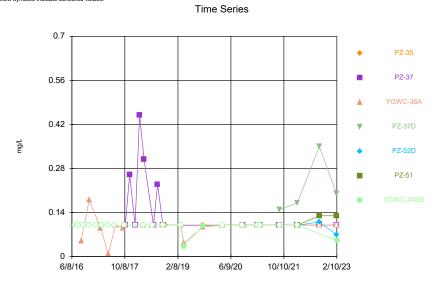
#### Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Constituent: Fluoride Analysis Run 4/26/2023 11:04 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

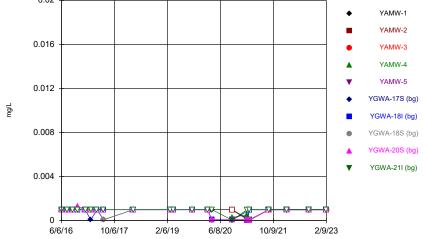
#### Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



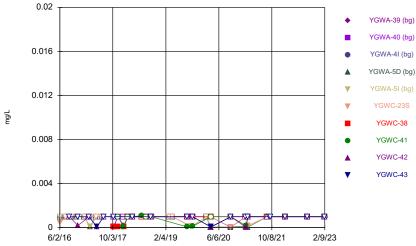
Constituent: Fluoride Analysis Run 4/26/2023 11:04 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6





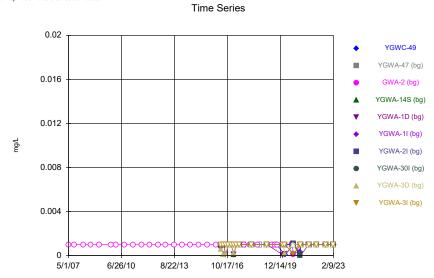
Constituent: Lead Analysis Run 4/26/2023 11:04 AM 



Time Series

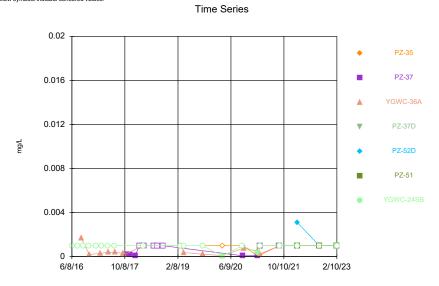
Constituent: Lead Analysis Run 4/26/2023 11:04 AM 

#### Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG Hollow symbols indicate censored values

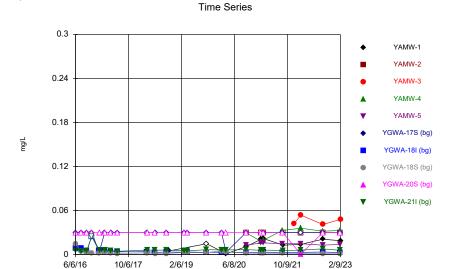


Constituent: Lead Analysis Run 4/26/2023 11:04 AM 

#### Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

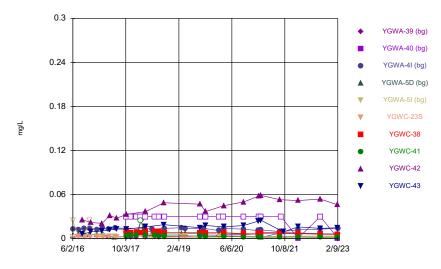


Constituent: Lead Analysis Run 4/26/2023 11:04 AM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

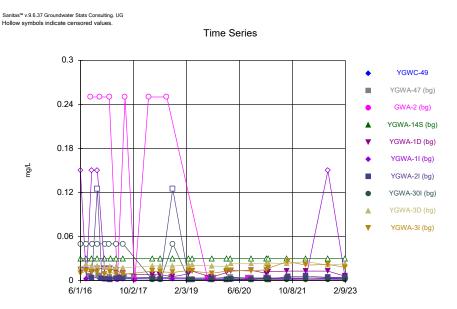


Constituent: Lithium Analysis Run 4/26/2023 11:04 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

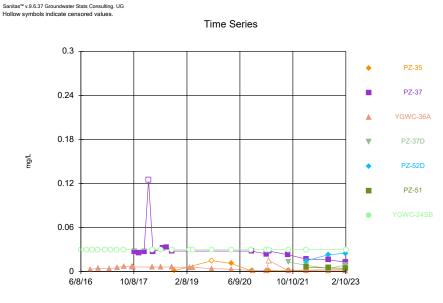


Constituent: Lithium Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Lithium Analysis Run 4/26/2023 11:04 AM

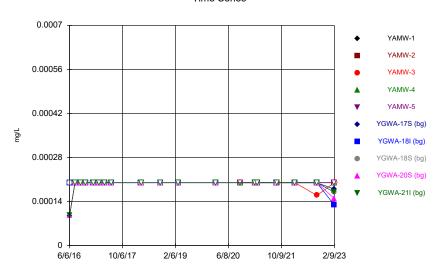
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Lithium Analysis Run 4/26/2023 11:04 AM

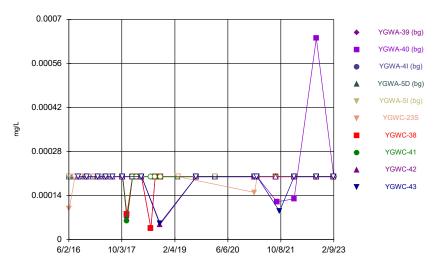
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6





Constituent: Mercury Analysis Run 4/26/2023 11:04 AM

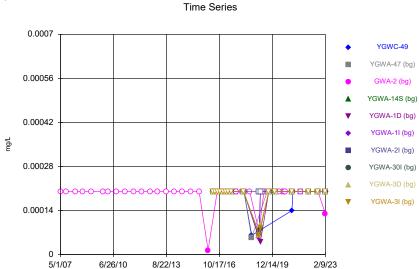
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Mercury Analysis Run 4/26/2023 11:04 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

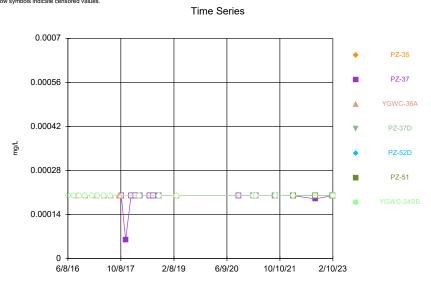
#### Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



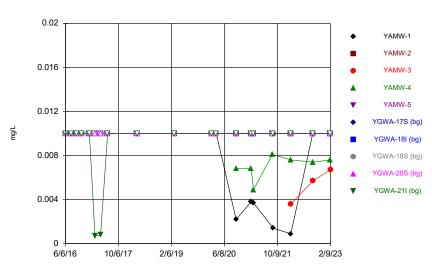
Constituent: Mercury Analysis Run 4/26/2023 11:04 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

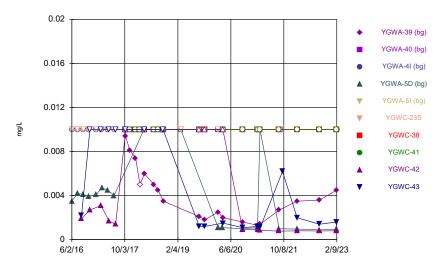
#### Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.





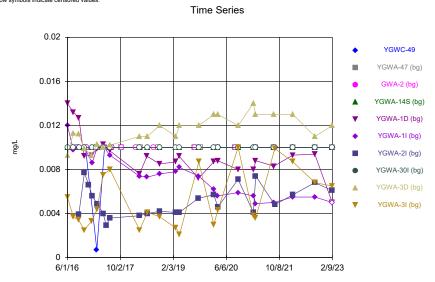


Constituent: Molybdenum Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



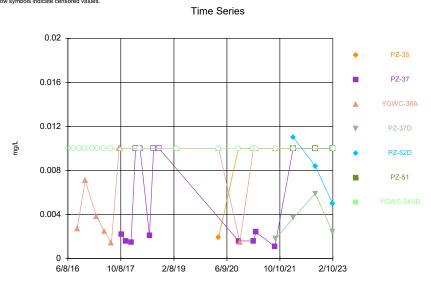
Constituent: Molybdenum Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

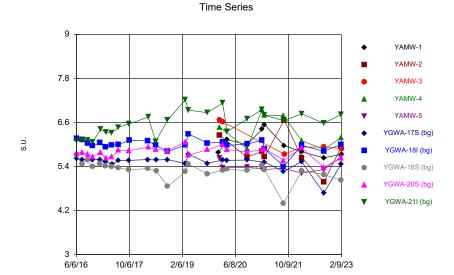
#### Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



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.





Constituent: pH Analysis Run 4/26/2023 11:04 AM

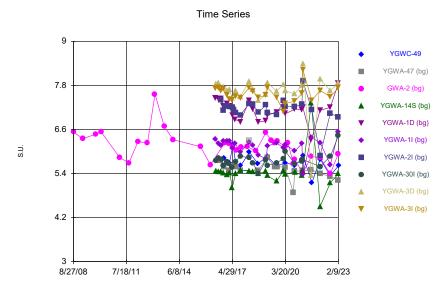
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

#### YGWA-39 (bg) YGWA-40 (bg) YGWA-4I (bg) YGWA-5D (bg) S.U. YGWC-38 5.4 YGWC-41 YGWC-42 YGWC-43 4.2 6/2/16 10/3/17 2/4/19 6/6/20 10/8/21 2/9/23

Time Series

Constituent: pH Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

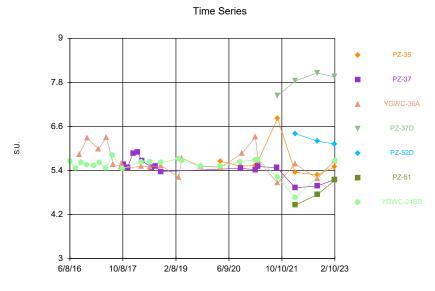
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG



Constituent: pH Analysis Run 4/26/2023 11:04 AM

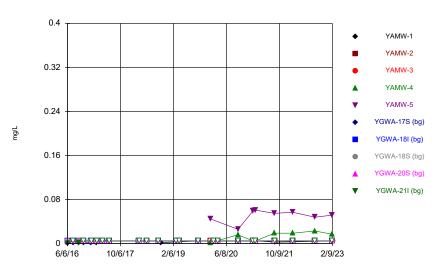
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG



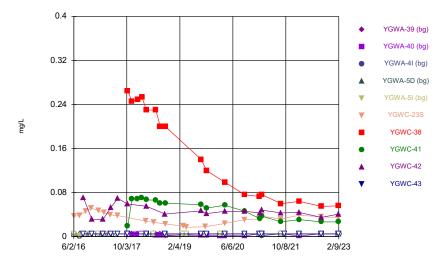
Constituent: pH Analysis Run 4/26/2023 11:04 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6





Constituent: Selenium Analysis Run 4/26/2023 11:05 AM

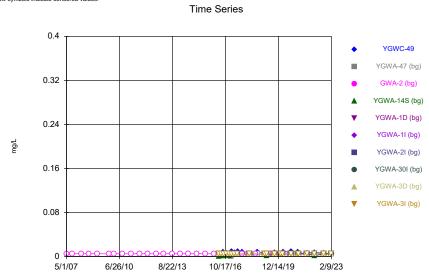
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Selenium Analysis Run 4/26/2023 11:05 AM

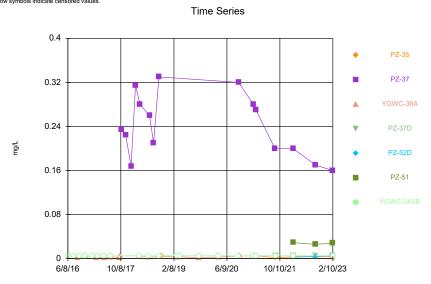
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

#### Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

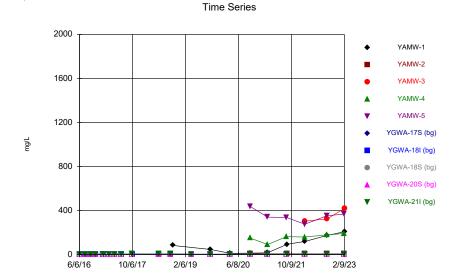


Constituent: Selenium Analysis Run 4/26/2023 11:05 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

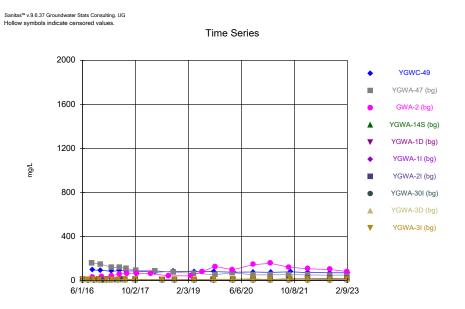
#### Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Constituent: Selenium Analysis Run 4/26/2023 11:05 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

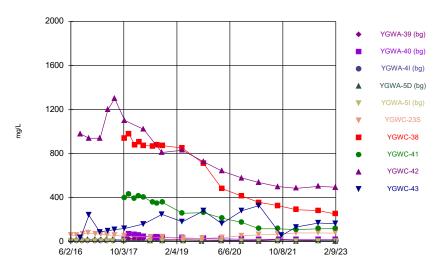


Constituent: Sulfate Analysis Run 4/26/2023 11:05 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



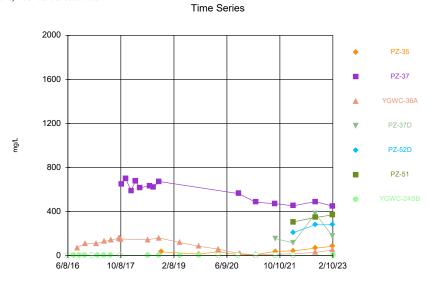
Constituent: Sulfate Analysis Run 4/26/2023 11:05 AM





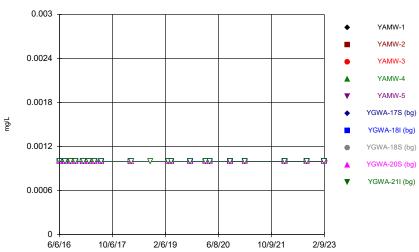
Constituent: Sulfate Analysis Run 4/26/2023 11:05 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6





Constituent: Sulfate Analysis Run 4/26/2023 11:05 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

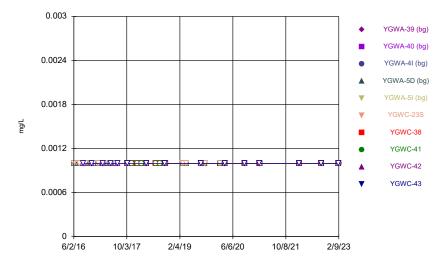




Constituent: Thallium Analysis Run 4/26/2023 11:05 AM

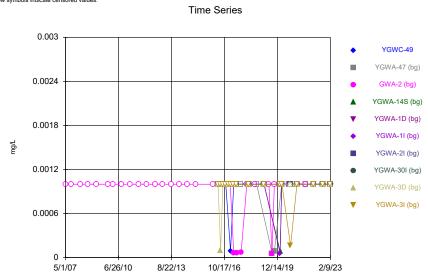
#### 

#### Time Series



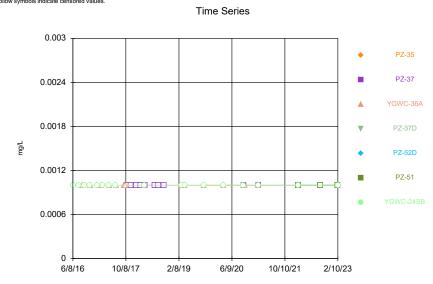
Constituent: Thallium Analysis Run 4/26/2023 11:05 AM 

#### Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG Hollow symbols indicate censored values



Constituent: Thallium Analysis Run 4/26/2023 11:05 AM 

#### Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

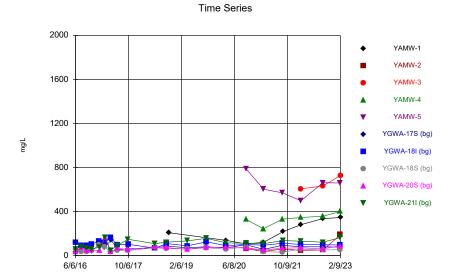


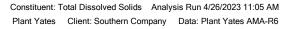
Constituent: Thallium Analysis Run 4/26/2023 11:05 AM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

6/8/16

10/8/17

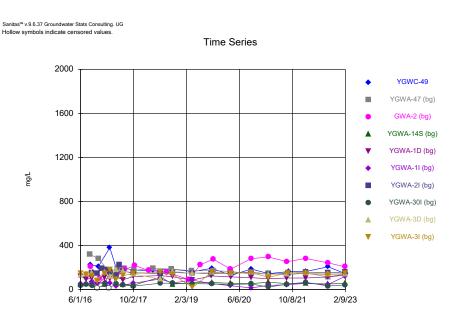




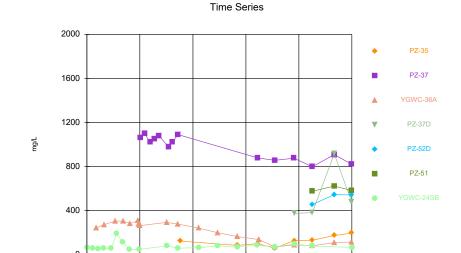
#### 2000 YGWA-39 (bg) YGWA-40 (bg) 1600 YGWA-4I (bg) YGWA-5D (bg) 1200 mg/L YGWC-38 800 YGWC-41 YGWC-42 YGWC-43 400 6/2/16 2/4/19 6/6/20 2/9/23 10/3/17 10/8/21

Time Series

Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:05 AM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:05 AM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:05 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

6/9/20

10/10/21

2/10/23

2/8/19

	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					0.000	0.00056 (J)	<0.003	0.000
2/11/2020	-0.000					<0.003	<0.003	<0.003	
2/12/2020						-0.000	-0.000	-0.000	<0.003
3/24/2020						<0.003	<0.003	<0.003	<0.003
3/25/2020	<0.003					<b>~0.003</b>	<0.003	<b>~</b> 0.003	<0.003
9/23/2020	<0.003	<0.003		0.00065 (J)		<0.003	<0.003	<0.003	
	<0.003	<0.003		0.00003 (3)	0.00033 (1)	<0.003	<0.003	<0.003	<0.003
9/24/2020	<0.003	<0.003		0.0011 (1)	0.00033 (J)		-0.002	<0.002	
2/9/2021	0.00037 (J)	<0.003		0.0011 (J)	<0.003	10.000	<0.003	<0.003	0.00032 (J)
3/3/2021	0.025	<0.003		0.00062 (J)	-0.000	<0.003	<0.003	0.00067 (J)	<0.003
3/4/2021				0.000	<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						

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	0.0011(0)
9/24/2019	0.0035
9/25/2019	0.0000
9/26/2019	
2/11/2020	
2/12/2020	0.0015 (J)
3/24/2020	0.0017 (J)
3/25/2020	0.0017 (0)
9/23/2020	
9/24/2020	0.0047
2/9/2021	0.0047 0.0013 (J)
3/3/2021	0.0013 (3)
3/4/2021	0.0014 (J)
8/25/2021	0.0014 (3)
8/26/2021	
8/27/2021	
	10.000
9/1/2021	<0.003
2/9/2022	<0.003
2/10/2022	0.0046
8/30/2022	0.0046
8/31/2022	
9/1/2022	.0.000
2/7/2023	<0.003
2/8/2023	

2/9/2023

0/0/0040	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	<0.002			
6/7/2016 7/26/2016			0.0003 (J)	<0.003	<0.003	<0.003			
7/28/2016			0.0003 (3)	<0.003	<0.003	<0.003			
8/30/2016						<0.003			<0.003
8/31/2016									<b>\0.003</b>
9/14/2016			<0.003	<0.003	<0.003				
9/20/2016			<0.003	<0.003	<0.003	<0.003			
11/2/2016			<0.003	<0.003		<b>~0.003</b>			
11/4/2016			<0.003	<0.003	<0.003				
11/8/2016					<b>~0.003</b>	<0.003			
11/16/2016						<b>~0.003</b>			<0.003
1/12/2017				<0.003	<0.003				<b>10.003</b>
1/13/2017			<0.003	<b>~0.003</b>	<b>~0.003</b>				
1/16/2017			<b>10.003</b>			<0.003			
2/24/2017						<b>~0.003</b>			
2/27/2017									<0.003
3/6/2017			<0.003						<b>10.003</b>
3/7/2017			<b>10.003</b>	<0.003	<0.003				
3/9/2017				<b>~0.003</b>	<b>~0.003</b>	<0.003			
5/1/2017			<0.003	<0.003		10.003			
5/2/2017			<b>10.003</b>	<b>~0.003</b>	<0.003	<0.003			
5/10/2017					<b>~0.003</b>	<b>~0.003</b>			<0.003
6/27/2017				<0.003	<0.003				<b>10.003</b>
6/29/2017			<0.003	<b>~0.003</b>	<b>~0.003</b>				
7/10/2017			<b>10.003</b>			<0.003			
7/10/2017						<b>~0.003</b>			<0.003
10/11/2017	0.0006 (J)								<b>10.000</b>
10/11/2017	0.0000 (3)	<0.003					<0.003	<0.003	<0.003
11/20/2017	<0.003	<0.003					<0.003	<b>~0.003</b>	<b>10.003</b>
11/21/2017	<b>10.003</b>	<b>~0.003</b>					<b>~0.003</b>	<0.003	
1/10/2018		<0.003						10.003	
1/11/2018	<0.003	<b>~0.003</b>						<0.003	
1/12/2018	10.005						<0.003	10.003	
2/19/2018		<0.003					10.003	<0.003	
2/20/2018	<0.003	-0.000					<0.003	-0.000	
3/29/2018	-0.000		<0.003	<0.003	<0.003		-0.000		
3/30/2018			-0.000	-0.000	-0.000	<0.003			
4/3/2018	<0.003	<0.003				0.000	<0.003	<0.003	
4/4/2018	-0.000	-0.000					-0.000	-0.000	<0.003
6/27/2018								<0.003	-0.000
6/28/2018	<0.003	<0.003					<0.003	-0.000	
8/7/2018	<0.003	<0.003					0.0015 (J)	<0.003	
9/20/2018	0.000	0.000					0.00.0	0.000	<0.003
9/24/2018	<0.003	<0.003					<0.003	<0.003	<b>10.000</b>
3/4/2019	3.000	2.000	<0.003	<0.003	<0.003		3.000	3.000	
3/6/2019			0.000	0.000	0.000	<0.003			
4/3/2019			<0.003	<0.003	<0.003	5.000			
4/4/2019			2.000	2.000	5.000	<0.003			
8/21/2019	<0.003	<0.003				3.000			
8/22/2019	-:						<0.003	<0.003	<0.003
9/24/2019				<0.003	<0.003		5.000	3.000	5.550
5,27,2013				-0.000	-0.000				

	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				

		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				

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

	YGWC-49	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						
			<0.003						
2/16/2016 6/1/2016			<0.003		-0.002	<0.003			
				<0.003	<0.003	<0.003		-0.002	<b>-0.000</b>
6/2/2016				<0.003		10.000		<0.003	<0.003
7/25/2016				0.0005 (1)	0.004 (1)	<0.003		<0.003	0.000 (1)
7/26/2016		0.0000 (1)		0.0005 (J)	0.001 (J)				0.002 (J)
8/30/2016		0.0028 (J)	0.000						
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						

	YGWC-49	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		
-							-		

	YGWC-49	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								

		 ,		
	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				

		Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
	YGWA-3I (bg)			
5/9/2017	- (-3)			
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	0.000			
8/27/2021	<0.003			

	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	

	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				3.555
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

	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)				

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

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

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

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
/2/2016			<0.005	0.00071 (J)	<0.005	<0.00E			
/7/2016 /26/2016			<0.005	0.001 (J)	<0.005	<0.005			
/28/2016			<0.005	0.001 (3)	<0.005	<0.005			
/30/2016						<b>~0.003</b>			0.0023 (J)
/31/2016									0.0023 (3)
/14/2016			<0.005	<0.005	<0.005				
/20/2016			<b>~0.003</b>	<b>~0.003</b>	<b>~0.003</b>	<0.005			
1/2/2016			<0.005	<0.005		<b>~0.003</b>			
1/4/2016			<b>~0.003</b>	<b>~0.003</b>	<0.005				
1/8/2016					10.000	<0.005			
1/16/2016						10.000			0.0017 (J)
/12/2017				<0.005	<0.005				0.0017 (3)
13/2017			<0.005	10.003	10.000				
16/2017			-0.003			<0.005			
/10/2017 /24/2017						<0.005			
27/2017									0.002 (J)
/6/2017			<0.005						0.002 (3)
7/2017			<b>~0.003</b>	0.0012 (J)	<0.005				
/9/2017				0.0012 (3)	<b>~0.003</b>	<0.005			
/1/2017			<0.005	<0.005		10.000			
/2/2017			10.003	10.003	<0.005	<0.005			
10/2017					10.000	10.000			0.0022 (J)
27/2017				0.0019 (J)	<0.005				0.0022 (0)
/29/2017			<0.005	0.0013 (0)	10.000				
10/2017			10.003			<0.005			
/11/2017						10.000			0.003 (J)
0/11/2017	0.0009 (J)								0.003 (0)
0/11/2017	0.0003 (0)	<0.005					0.0023 (J)	0.0011 (J)	0.0031 (J)
1/20/2017	<0.005	<0.005					0.0023 (J)	0.0011(0)	0.0031 (0)
1/21/2017	-0.000	-0.000					0.0000 (0)	<0.005	
/10/2018		<0.005						-0.000	
/11/2018	<0.005	0.000						<0.005	
/12/2018	-0.000						0.001 (J)	-0.000	
19/2018		<0.005					0.001 (0)	<0.005	
/20/2018	<0.005	0.000					0.00096 (J)	0.000	
/29/2018	0.000		<0.005	0.0006 (J)	<0.005		0.0000 (0)		
/30/2018						<0.005			
/3/2018	<0.005	<0.005					0.0015 (J)	0.00072 (J)	
/4/2018							(1)	(-,	0.0023 (J)
/6/2018				0.0013 (J)					(-)
7/2018			0.00059 (J)	(-)	<0.005				
/12/2018			(,,			<0.005			
27/2018								0.00062 (J)	
/28/2018	<0.005	<0.005					0.0017 (J)	(-)	
7/2018	<0.005	<0.005					0.00072 (J)	<0.005	
/20/2018							\-,'		0.0018 (J)
/24/2018	<0.005	<0.005					0.0017 (J)	0.001 (J)	. ,
26/2018			<0.005	0.0014 (J)	<0.005		(-)	\-/	
/27/2018				,		<0.005			
/4/2019			<0.005	<0.005	<0.005				
/6/2019			-	-	-	<0.005			

	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				

		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				

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

							-		
	YGWC-49	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		0.0021	<0.005			
				<0.00E	0.0021	<0.005		<0.00E	<0.00E
6/2/2016				<0.005		-0.005		<0.005	<0.005
7/25/2016				-0.005	0.0016 (1)	<0.005		<0.005	10.005
7/26/2016		.0.005		<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						

					,				
	YGWC-49	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				2.00 (0)	0.000	3.00. (0)	<0.005	
	5.555							0.000	

	YGWC-49	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								

	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		

	YGWA-3I (bg)		
5/9/2017	(-3)		
5/26/2017			
6/27/2017			
6/28/2017	0.0011 (J)		
6/30/2017	0.0011(3)		
7/11/2017			
7/13/2017			
7/13/2017			
10/10/2017 10/11/2017			
10/11/2017			
2/19/2018			
3/27/2018			
3/28/2018	<0.005		
	<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	-0.000		
8/6/2018			
9/19/2018			
9/20/2018			
10/1/2018	<0.005		
10/2/2018	-0.000		
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			

	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	

	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				
10/0/2017		0.0014 (J)	<b>~0.003</b>				
11/21/2017							
		0.0008 (J)					
1/11/2018		0.0006 (J)					
2/20/2018		<0.005	-0.005				10.005
3/30/2018		0.0040 ( 1)	<0.005				<0.005
4/3/2018		0.0012 (J)					
6/12/2018			0.00000 ( 1)				<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	
	V-7		\-/				

Constituent: Arsenic (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

6/6/2	2016	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg) 0.028	YGWA-18S (bg) 0.019	YGWA-20S (bg)
6/7/2							0.012	0.020	0.010	0.014
	/2016						0.0126	0.0294	0.0167	0.0141
	/2016						0.0120	0.0254	0.0107	0.0141
							0.0127		0.0169	
	/2016						0.0127	0.0047	0.0168	0.0455
	/2016							0.0247		0.0155
	/2016									0.0157
	/2016						0.0128	0.0248	0.0159	
	/2017						0.0142	0.0266	0.0162	
	/2017									0.0158
3/1/2								0.0275	0.0195	
3/2/2							0.0155			
3/6/2										0.0163
	/2017							0.024	0.0182	0.0177
5/2/2							0.0138			
	/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
6/5/2	2018									
6/6/2	2018									0.015
6/7/2	2018							0.023		
6/11	/2018						0.013		0.019	
9/25	/2018						0.014	0.023	0.019	0.015
10/1	6/2018	0.048								
3/5/2	2019						0.015		0.02	0.016
3/6/2	2019							0.024		
4/2/2	2019						0.016			
4/3/2	2019							0.025	0.017	0.018
9/24	/2019									
9/25	/2019						0.015			0.014
	/2019	0.047						0.021	0.017	
2/11	/2020						0.015	0.022	0.019	
	/2020									0.014
	/2020						0.015	0.021	0.017	0.015
	/2020	0.04								
	/2020		0.0092 (J)		0.0063 (J)		0.015	0.021	0.016	
	/2020	0.028	(1)		(-)	0.057				0.015
2/9/2		0.039	0.0085 (J)		0.02	0.042		0.023	0.017	0.015
3/3/2		0.035	0.0082		0.021	0.0.2	0.017	0.023	0.017	0.015
3/4/2		0.033	0.0002		0.021	0.039	0.017	0.023	0.017	0.013
	/2021				0.0037 (J)	0.039				
	/2021				0.0037 (3)	0.036			0.015	
						0.030	0.016	0.02	0.015	0.012
9/1/2	/2021	0.075	0.0072				0.016	0.02		0.013
		0.075	0.0072				0.017	0.001	0.014	0.014
2/9/2		0.094	0.0074	0.028	0.0022 (1)	0.024	0.017	0.021	0.014	0.014
	/2022	0.084	0.0074	0.038	0.0033 (J)	0.034	0.017	0.017	0.012	
	/2022	0.085					0.017	0.017	0.012	0.011
	/2022	0.085	0.0000	0.004	0.000 ( 1)	0.004				0.011
9/1/2			0.0092	0.024	0.003 (J)	0.034				
2/7/2			0.0004		0.000 (1)	0.000	0.017	0.019	0.012	0.014
2/8/2	2023		0.0064		0.003 (J)	0.039				

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# **Time Series**

	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							

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

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

	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	0.0544			
7/28/2016						0.0511			0.0455
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)	0.0405				
11/4/2016					0.0165	0.054			
11/8/2016						0.054			0.0544
11/16/2016				0.0000 (1)	0.0100				0.0541
1/12/2017			0.0140	0.0089 (J)	0.0199				
1/13/2017			0.0146			0.0500			
1/16/2017						0.0528			
2/24/2017									0.0570
2/27/2017			0.0444						0.0573
3/6/2017			0.0141	0.000 (1)	0.0400				
3/7/2017				0.009 (J)	0.0196	0.0400			
3/9/2017			0.0140	0.0002 (1)		0.0469			
5/1/2017			0.0149	0.0083 (J)	0.0000	0.0407			
5/2/2017					0.0202	0.0427			0.0547
5/10/2017				0.0074 (1)	0.0104				0.0517
6/27/2017			0.0454	0.0074 (J)	0.0184				
6/29/2017			0.0154			0.0005			
7/10/2017						0.0395			0.0454
7/11/2017	0.0000 (1)								0.0451
10/11/2017	0.0092 (J)	0.0000					0.0000	0.0004	0.0400
10/12/2017	0.0004 (1)	0.0328					0.0269	0.0394	0.0429
11/20/2017	0.0081 (J)	0.0671					0.0255	0.000	
11/21/2017		0.0050						0.032	
1/10/2018	0.0077 (1)	0.0656						0.00	
1/11/2018	0.0077 (J)						0.0000	0.03	
1/12/2018		0.0500					0.0236	0.0000	
2/19/2018	-0.01	0.0598					0.0055	0.0308	
2/20/2018	<0.01		0.014	2.24	0.004		0.0255		
3/29/2018			0.014	<0.01	0.021	0.00			
3/30/2018	-0.01	0.045				0.03	0.000	0.00	
4/3/2018	<0.01	0.045					0.023	0.03	0.044
4/4/2018				0.000 ( 1)					0.041
6/6/2018			0.014	0.008 (J)	0.010				
6/7/2018			0.014		0.019	0.004			
6/12/2018						0.024		0.000	
6/27/2018	0.0070 (1)	0.047					0.004	0.028	
6/28/2018	0.0078 (J)	0.047					0.024	0.007	
8/7/2018	0.0078 (J)	0.048					0.023	0.027	0.000
9/20/2018	0.0074 ( ))	0.040					0.004	0.000	0.038
9/24/2018	0.0071 (J)	0.042	0.03	0.0075 (1)	0.010		0.021	0.026	
9/26/2018			0.02	0.0075 (J)	0.019	0.000			
9/27/2018			0.010	0.0077 ( "	0.010	0.022			
3/4/2019			0.016	0.0077 (J)	0.019	0.010			
3/6/2019						0.019			

	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				

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					
7/26/2010					
7/28/2010					
8/30/2010		0.0005 (1)			
8/31/201		0.0065 (J)			
9/14/2010					
9/20/2010					
11/2/2010					
11/4/2010					
11/8/2010					
11/16/20		0.0092 (J)			
1/12/201					
1/13/201	7				
1/16/201	7				
2/24/201		0.0144			
2/27/201	7				
3/6/2017					
3/7/2017					
3/9/2017					
5/1/2017					
5/2/2017					
5/10/201	7	0.0173			
6/27/201	7				
6/29/201	7				
7/10/201	7				
7/11/201		0.0183			
10/11/20					
10/12/20		0.0205			
11/20/20					
11/21/20					
1/10/2018					
1/11/201					
1/12/2018					
2/19/2018					
2/20/201					
3/29/201					
3/30/2018					
4/3/2018					
4/4/2018		0.024			
6/6/2018					
6/7/2018					
6/12/201					
6/27/201					
6/28/201					
8/7/2018					
9/20/2018		0.035			
9/24/2018					
9/26/2018					
9/27/2018					
3/4/2019					
3/4/2019					
3/0/2019					

	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	

	YGWC-49	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	0.077				0.0084 (J)	0.008 (J)			
9/14/2016						(5)	0.0037 (J)		
9/15/2016				0.0087 (J)			0.0007 (0)		0.009 (J)
9/19/2016				0.0007 (0)				0.0069 (J)	0.000 (0)
11/1/2016					0.0062 (J)			0.007 (J)	0.0079 (J)
11/2/2016				0.0082 (J)	0.0002 (0)			0.007 (0)	0.0070 (0)
11/4/2016				0.0002 (0)		0.0067 (J)	0.0059 (J)		
11/14/2016		0.0383				0.0007 (0)	0.0000 (0)		
11/15/2016	0.0772	0.0000							
11/28/2016	0.0772		0.0529						
12/15/2016			0.0020				0.0056 (J)		
1/10/2017				0.0086 (J)			0.0000 (0)		
1/11/2017				(-)	0.0069 (J)				0.0075 (J)
1/16/2017						0.0096 (J)	0.0049 (J)	0.0071 (J)	
2/21/2017							(2)	0.0077 (J)	
2/22/2017			0.0607					0.0077 (0)	
2/24/2017		0.0351	0.0007						
2/27/2017	0.0888	0.0001							
3/1/2017	0.0000								
3/2/2017					0.0071 (J)	0.0112			0.009 (J)
3/3/2017					0.0071 (0)	0.0112	0.0046 (J)		0.000 (0)
3/8/2017				0.0088 (J)			0.0040 (0)		
4/26/2017				0.0088 (J) 0.0085 (J)				0.0074 (J)	0.0078 (J)
4/20/2017				0.0000 (0)	0.0064 (J)	0.0106		0.0077 (0)	3.0070 (0)
4/28/2017					0.0007 (0)	0.0100	0.0039 (J)		
5/8/2017		0.0251	0.065				0.0000 (0)		
3/0/2017		0.0231	0.000						

					,				
	YGWC-49	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		-0.01		10.01
4/2/2018		0.022			40.01				
	0.074	0.022							
4/4/2018	0.074				0.0000 (1)				
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		0.020	0.000		0.0066 (J)	0.0091 (J)			
2/11/2020					0.0000 (3)	0.0031 (3)	0.0036 (J)		
2/12/2020				0.007 (J)			0.0030 (3)	0.0073 (J)	0.0062 (J)
		0.025	0.047	0.007 (3)				0.0073 (3)	0.0002 (3)
3/17/2020		0.035	0.047	0.0076 ( 1)		0.0084 (1)			
3/18/2020				0.0076 (J)	0.0076 ( !)	0.0084 (J)	0.0036 / 1)	0.0074 / 1)	0.0072 / IV
3/19/2020	0.071				0.0076 (J)		0.0036 (J)	0.0074 (J)	0.0072 (J)
3/25/2020	0.071								
8/26/2020		0.00=	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)	

0.405.40000	YGWC-49	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								

		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				
	0.0031 (J)			
7/26/2016				
8/30/2016				
8/31/2016				
9/1/2016				
9/13/2016	0.0007 (1)			
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				

			Flailt Tates	Client. Southern Company	Data. Flant Tates AMA-110
		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	0.01			
	4/2/2018				
	4/4/2018				
	6/5/2018				
	6/6/2018				
	6/7/2018				
	6/8/2018	0.0034 (J)			
	6/11/2018	0.000 . (0)			
	8/6/2018				
	9/19/2018				
	9/20/2018				
	10/1/2018	0.0034 (J)			
	10/2/2018	0.0004 (0)			
	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	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				

	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	

	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	

Constituent: Barium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

6	/6/2016	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg) <0.0005	YGWA-18S (bg) <0.003	YGWA-20S (bg)
	/7/2016						<0.003	<b>~0.0003</b>	<b>~0.003</b>	<0.0025
	/27/2016						<0.003	<0.0005	<0.003	<0.0025
	/28/2016						10.003	10.0003	10.003	10.0023
	/16/2016						<0.003		<0.003	
	/10/2016						<0.003	<0.0005	<0.003	<0.0025
								<0.0005		
	1/2/2016						-0.000	-0.0005	-0.000	<0.0025
	1/3/2016						<0.003	<0.0005	<0.003	
	/11/2017						<0.003	<0.0005	<0.003	10.0005
	/13/2017							-0.0005	-0.000	<0.0025
	/1/2017						05.05.41)	<0.0005	<0.003	
	/2/2017						8E-05 (J)			10.0005
	/6/2017							-0.0005	-0.000	<0.0025
	/26/2017						-0.000	<0.0005	<0.003	<0.0025
	/2/2017						<0.003	-0.0005	-0.000	
	/28/2017						<0.002	<0.0005	<0.003	<0.002E
	/29/2017						<0.003	-0.0005	-0.000	<0.0025
	/28/2018						<0.003	<0.0005	<0.003	.0.005
	/29/2018									<0.0025
	/5/2018									05.05.41)
	/6/2018							0.0005		8E-05 (J)
	/7/2018						05.05 (1)	<0.0005	5.75.05 (1)	
	/11/2018						9E-05 (J)	0.0005	5.7E-05 (J)	0.45.05.40
	/25/2018	.0.005					8.9E-05 (J)	<0.0005	8.2E-05 (J)	6.1E-05 (J)
	0/16/2018	<0.0005					0.45.05.(1)		7.05.05 (1)	0.00044 (1)
	/5/2019						9.1E-05 (J)	-0.0005	7.9E-05 (J)	0.00011 (J)
	/6/2019						05.05.41)	<0.0005		
	/2/2019						9E-05 (J)	-0.0005	7.55.05 (1)	C 4E 0E (I)
	/3/2019							<0.0005	7.5E-05 (J)	6.4E-05 (J)
	/24/2019						0.45.05 (1)			10.0005
	/25/2019	0.0005					8.1E-05 (J)	0.0005	0.45.05.410	<0.0025
	/26/2019	<0.0005				0.00017.(1)		<0.0005	8.4E-05 (J)	
	/15/2020					0.00017 (J)	7.05.05.410	0.0005	7.05.05 (1)	
	/11/2020						7.8E-05 (J)	<0.0005	7.6E-05 (J)	7.9E.0E.(1)
	/12/2020						05.05.41)	-0.0005	0.05.05.(1)	7.8E-05 (J)
	/24/2020	0.00007 (1)					8E-05 (J)	<0.0005	8.9E-05 (J)	7.6E-05 (J)
	/25/2020	0.00037 (J)	-0.0005		-0.0005		0.45.05 (1)	-0.0005	0.05.05 (1)	
	/23/2020	F 0F 0F (I)	<0.0005		<0.0005	0.05.05.(1)	8.1E-05 (J)	<0.0005	8.8E-05 (J)	0.05.05.41)
	/24/2020	5.8E-05 (J)	E 4E 0E (I)		-0.0005	8.6E-05 (J)		-0.0005	0.05.05 (1)	8.3E-05 (J)
	/9/2021	<0.0005	5.1E-05 (J)		<0.0005	0.00015 (J)	0.05.05.410	<0.0005	9.8E-05 (J)	6.8E-05 (J)
	/3/2021	<0.0005	<0.0005		<0.0005	0.00012 (1)	9.9E-05 (J)	<0.0005	0.00011 (J)	6.8E-05 (J)
	/4/2021				-0.0005	0.00013 (J)				
	/25/2021				<0.0005	0.00010 (1)			0.25.05.41)	
	/26/2021					0.00012 (J)	0.0001 (1)	<0.000E	9.3E-05 (J)	E OE OE ( I)
	/27/2021	0.55.05.(1)	6 EE 0E ( I)				0.0001 (J)	<0.0005		5.9E-05 (J)
	/1/2021	9.5E-05 (J)	6.5E-05 (J)				0.00011 (1)	-0.0005	0.05.05 (1)	7.75.05.41)
	/9/2022	0.00010 (1)	7.45.05 (1)	7.05.05.(1)	-0.0005	0.00012 (1)	0.00011 (J)	<0.0005	8.9E-05 (J)	7.7E-05 (J)
	/10/2022	0.00016 (J)	7.4E-05 (J)	7.8E-05 (J)	<0.0005	0.00013 (J)	0.000171	<0.0005	8 2E 05 / I)	
	/30/2022 /31/2022	0.0001171					0.0001 (J)	<0.0005	8.2E-05 (J)	<0.0025
	/1/2022	0.00011 (J)	5.7E.05.(1)	0.00011 (J)	<0.0005	0.00011 (J)				~U.UU2J
	/1/2022 /7/2023		5.7E-05 (J)	0.00011 (J)	~0.0005	0.00011 (J)	9.6E-05 (J)	<0.0005	7.1E-05 (J)	7.4E-05 (J)
2	1112023						J.UL-UJ (J)	-0.0000	7.1L-03 (J)	/.¬L=00 (0)

	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)							

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	0.0000
3/29/2018	<0.0005
6/5/2018	<0.0005
6/6/2018	-0.0000
6/7/2018	
6/11/2018	
9/25/2018	<0.0005
10/16/2018	<0.0003
3/5/2019	<0.0005
3/6/2019	<0.0005
4/2/2019	<0.0005
4/3/2019	<0.0003
9/24/2019	<0.0005
9/25/2019	<0.0005
9/26/2019 1/15/2020	
2/11/2020	<0.000E
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	
0/7/0000	0.0005

<0.0005

2/7/2023

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 YGWA-211 (bg)

	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	<0.003			
6/7/2016			-0.0005	-0.0005	-0.0005	<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	0.0000	
8/7/2018	<0.0005	0.00024 (J)					0.0058	0.0037	
9/20/2018	3.3300	3.00024 (0)					0.0000	3.000,	<0.0005
9/24/2018	<0.0005	0.00019 (J)					0.0051	0.0032	5.0000
9/26/2018	-0.0000	3.00013 (3)	<0.0005	<0.0005	<0.0005		0.0031	J.0002	
9/27/2018			-0.0000	-0.0000	-0.0000	9E-05 (J)			
3/4/2019			<0.0005	<0.0005	<0.0005	3L-03 (0)			
3/6/2019			<b>~</b> 0.0003	<b>\0.0003</b>	<b>\0.0003</b>	6.6E-05 (J)			
3/0/2019						0.0⊑-05 (J)			

	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				

		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					

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

	YGWC-49	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			0.000		<0.0005	<0.0025			
6/2/2016				<0.003	-0.0000	-0.0020		<0.0005	<0.0005
7/25/2016				-0.000		<0.0025		<0.0005	-0.0000
7/26/2016				0.0002 (J)	<0.0005	10.0023		10.0003	<0.0005
8/30/2016		<0.0005		0.0002 (3)	<b>~0.0003</b>				<b>10.0003</b>
8/31/2016		<0.0003	<0.0005						
	0.0001 (1)		<0.0005						
9/1/2016	0.0001 (J)				<0.000E	<0.002E			
9/13/2016					<0.0005	<0.0025	-0.0005		
9/14/2016				0.0000 (1)			<0.0005		.0.0005
9/15/2016				0.0002 (J)					<0.0005
9/19/2016					.0.005			<0.0005	.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						

						, , ,				
		YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/20	)17	0.0001 (J)								
5/26/2	2017							<0.0005		
6/27/2	2017					<0.0005	<0.0025			
6/28/2	2017							<0.0005		<0.0005
6/30/2	2017				0.0002 (J)				<0.0005	
7/11/2	2017		<0.0005							
7/13/2	2017	0.0001 (J)								
7/17/2				<0.0005						
10/10			<0.0005							
10/11		0.0001 (J)								
10/16		. ,		<0.0005						
2/19/2				<0.0005						
3/27/2				0.000	<0.003		<0.0025		<0.0005	
3/28/2					0.000		0.0020	<0.0005	0.000	<0.0005
3/29/2						<0.0005		-0.0000		-0.0000
4/2/20			<0.0005			-0.0003				
4/4/20		<0.003	<0.0003							
		<0.003		<0.0005						
8/6/20			5.75.05 ( I)	<0.0005						
9/19/2		0.00011 (1)	5.7E-05 (J)							
9/20/2		0.00011 (J)		.0.0005						
2/25/2				<0.0005						
2/26/2					0.00016 (J)				7.2E-05 (J)	
2/27/2						<0.0005	<0.0025	<0.0005		<0.0005
3/28/2						<0.0005	<0.0025			
3/29/2					0.00017 (J)			<0.0005		
4/1/20									<0.0005	<0.0005
6/12/2	2019			<0.0005						
8/19/2	2019			<0.0005						
8/20/2	2019		<0.0005							
9/24/2	2019					<0.0005	<0.0025	<0.0005		
9/25/2	2019				0.00018 (J)				<0.0005	<0.0005
9/26/2	2019	0.00013 (J)								
10/8/2	2019			<0.0005						
2/10/2	2020					<0.0005	<0.0025			
2/11/2	2020							<0.0005		
2/12/2	2020				0.00019 (J)				<0.0005	<0.0005
3/17/2	2020			<0.0005						
3/18/2	2020				0.00021 (J)		<0.0025			
3/19/2	2020					<0.0005		<0.0005	<0.0005	<0.0005
3/25/2	2020	0.00013 (J)								
8/26/2	2020			<0.0005						
8/27/2	2020		4.7E-05 (J)							
9/22/2	2020		<0.0005	<0.0005						
9/23/2	2020					<0.0005	<0.0025	<0.0005		<0.0005
9/24/2	2020	0.00013 (J)							<0.0005	
9/25/2	2020				0.00018 (J)					
2/9/20		0.00013 (J)			.,					
2/10/2		- \-/			0.00019 (J)			<0.0005		<0.0005
2/11/2					- (-)				4.7E-05 (J)	
2/12/2						<0.0005	<0.0025		\*/	
3/1/20			5.5E-05 (J)						<0.0005	
3/2/20			30 (0)	<0.0005	0.00018 (J)					
5,2,20				0.0000	0.000.0(0)					

	YGWC-49	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)								

		 ,		
	YGWA-3I (bg)			
5/1/2007	( 6)			
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	-0.000			
7/25/2016	<0.0005			
7/26/2016	-0.000			
8/30/2016				
8/31/2016				
9/1/2016				
9/13/2016				
9/14/2016	<0.0005			
9/15/2016	-0.000			
9/19/2016				
11/1/2016	<0.0005			
11/2/2016	0.0000			
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				

	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	40 000E	
9/25/2019 9/26/2019	<0.0005	
10/8/2019		
2/10/2020		
2/11/2020	<0.0005	
2/12/2020	0.0000	
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		

	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	

	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)				0.000
1/17/2017			02 00 (0)				0.0001 (J)
2/28/2017			0.0001 (J)				3.0001(0)
3/8/2017			0.0001 (3)				0.0001 (J)
5/2/2017							0.0001 (J)
5/9/2017			0.0002 (J)				0.0001(3)
			0.0002 (3)				0.0001717
7/7/2017			0.0002 (1)				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		

	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)

	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		0.00 10 (0)
6/11/2018						0.01 (J)	-0.04	0.0093 (J)	
9/25/2018						0.0096 (J)	0.0046 (J)	0.0036 (b) 0.007 (J)	<0.04
10/16/2018	0.2					0.0030 (3)	0.0040 (0)	0.007 (0)	10.04
4/2/2019	0.2					0.0066 (J)			
4/3/2019						0.0000 (3)	<0.04	0.0053 (1)	<0.04
							<0.04	0.0053 (J)	<0.04
9/24/2019						0.0001 (1)			-0.04
9/25/2019	0.000					0.0081 (J)	0.0000 (1)	0.0070 (1)	<0.04
9/26/2019	0.092	0.004 (1)			0.7		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						

	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	0.0092 (3)	
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	0.040 (1)	
9/24/2020	0.013 (J)	
3/3/2021 3/4/2021	0.0079 (J)	
8/25/2021	0.0079 (3)	
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		

6/2/2016	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	0.00			
6/7/2016			0.0047 (1)	0.0050 ( 1)	-0.04	0.99			
7/26/2016			0.0047 (J)	0.0052 (J)	<0.04	1.00			
7/28/2016						1.09			0.4.7
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									47.0
2/27/2017			.0.04						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				0.0070 (1)	.0.04				20.4
6/27/2017			.0.04	0.0079 (J)	<0.04				
6/29/2017 7/10/2017			<0.04			1.12			
7/10/2017						1.12			25.2
10/3/2017				0.0094 (J)	<0.04				20.2
10/5/2017			<0.04	0.000 (0)	0.01				
10/11/2017	0.0135 (J)					1.09			
10/12/2017	(0)	0.0401					19.3	12	20
11/20/2017	0.0251 (J)	0.156					21.8		
11/21/2017	(1)							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

	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				

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			Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
		YGWC-43			
6/2/2016					
6/7/2016					
7/26/201					
7/28/201					
8/30/201		0.400			
8/31/201		0.169			
9/14/201					
9/20/201					
11/2/201					
11/4/201					
11/8/201					
11/16/20		0.406			
1/12/201					
1/13/201	17				
1/16/201	17				
2/24/201	17	0.725			
2/27/201	17				
3/6/2017	,				
3/7/2017	7				
3/9/2017	7				
5/1/2017	,				
5/2/2017	,				
5/10/201	17	0.955			
6/27/201	17				
6/29/201					
7/10/201	17				
7/11/201		0.994			
10/3/201					
10/5/201					
10/11/20					
10/12/20		1.15			
11/20/20					
11/21/20					
1/10/201					
1/11/201					
1/12/201					
2/19/201					
2/20/201					
4/3/2018					
4/4/2018		1.2			
6/6/2018					
6/7/2018					
6/12/201					
6/27/201					
6/28/201					
8/7/2018					
		2.1			
9/20/201		2.1			
9/24/201					
9/26/201					
9/27/201					
3/26/201					
3/27/201	19				

	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	

6/1/2016	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg) <0.04	YGWA-1I (bg) <0.04	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/2/2016				<0.1	0.01	0.01		<0.04	<0.04
				<b>~0.1</b>		~0.04			<b>10.04</b>
7/25/2016				0.0477 ( 1)	0.0055 (1)	<0.04		<0.04	0.0007 (1)
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	i	0.0166 (J)							
11/15/2016	0.0074 (J)								
11/28/2016	i		0.0095 (J)						
12/15/2016	i						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						0.01	0.0 .	<0.04	
2/22/2017			<0.04					10.04	
2/24/2017		0.0145 (J)	<0.04						
	-0.04	0.0145 (3)							
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)		0.0170 (0)					
10/11/2017		0.0.2.(0)							
10/11/2017			<0.04						
2/19/2018		0.012 ( 1)	<0.04						
4/2/2018	0.0044 ( ))	0.013 (J)							
4/4/2018	0.0041 (J)								
6/5/2018					0.0052 (J)				
6/6/2018						<0.04			

6/7/2018	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg) <0.04	YGWA-30I (bg)	YGWA-3D (bg) 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)								

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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	
3/3/2010	

6/6/2018

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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

	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		17.5					0.018 (J)
6/13/2018			0.25				0.010 (0)
6/29/2018		20.6	0.20				
8/6/2018		15.9					
8/30/2018	0.04	10.0					
9/24/2018	0.0.	16.5					
9/26/2018		10.0	0.24				0.0055 (J)
10/16/2018	0.031 (J)		0.24				0.0000 (0)
4/4/2019	0.001 (0)		0.22				<0.04
9/26/2019	<0.04		0.13				0.0068 (J)
3/25/2020	0.071 (J)		0.11				3.3333 (5)
3/26/2020	0.071 (0)		0.11				0.033 (J)
9/23/2020							<0.04
9/24/2020	0.017 (J)						
9/25/2020	0.017 (0)	14.1					
10/7/2020		14.1	0.018 (J)				
3/3/2021			0.010 (0)				<0.04
3/4/2021	0.012 (J)	12.4	0.0088 (J)				V.04
8/25/2021	0.012 (3)	10.3	0.0008 (3)				
9/1/2021	0.044	10.5					<0.04
9/3/2021	0.044		0.012 (J)	1.6			NO.04
	0.054	0.5	0.012 (3)	1.0		6.0	<0.04
2/10/2022 2/11/2022	0.054	9.5	0.019 (J)	0.44	0.84	6.8	<0.04
	0.053		0.019 (3)	U. <del>44</del>	U.0 <del>4</del>		
8/31/2022	0.052	0.0	0.067	0.00	1.2	7.2	
9/1/2022		9.9	0.067	0.83	1.2	7.2	
2/8/2023	0.076	8.2	0.028 ( 1)	0.7	1.2	6.0	
2/9/2023	0.076		0.028 (J)			6.9	<0.04
2/10/2023							<0.04

		YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							.0.0005	<0.0005	<0.0005	.0.000
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	5									<0.0005
11/3/2016	5						<0.0005	<0.0005	<0.0005	
1/11/2017	7						0.0001 (J)	<0.0005	0.0001 (J)	
1/13/2017	7									<0.0005
3/1/2017								<0.0005	<0.0005	
3/2/2017							<0.0005			
3/6/2017										<0.0005
4/26/2017	7							<0.0005	<0.0005	<0.0005
5/2/2017							<0.0005			
6/28/2017	7							<0.0005	<0.0005	
6/29/2017	7						<0.0005			<0.0005
3/28/2018	3						<0.0005	<0.0005	<0.0005	
3/29/2018	3									<0.0005
6/5/2018										
6/6/2018										<0.0005
6/7/2018								<0.0005		
6/11/2018	3						<0.0005		<0.0005	
9/25/2018	3						<0.0005	<0.0005	<0.0005	<0.0005
10/16/201	18	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									
9/25/2019	9						<0.0005			<0.0005
9/26/2019	9	<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	1				<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				0.000	0.000		0.000
2/9/2022		0.00020 (0)	0.0000				<0.0005	<0.0005	<0.0005	<0.0005
2/10/2022		0.00018 (J)	<0.0005	<0.0005	<0.0005	0.00022 (J)	0.000	0.0000	0.000	3.0000
8/30/2022		3.50010(0)	-0.0000	-0.0000	-0.0000	3.00022 (0)	<0.0005	<0.0005	<0.0005	
8/31/2022		0.00015 (J)					-0.0003	-0.0003	-0.0003	<0.0005
9/1/2022		3.00010 (0)	0.00015 (J)	<0.0005	<0.0005	0.00023 (J)				0.0000
2/7/2023			0.00010 (0)	×0.0003	-0.0000	0.00023 (0)	<0.0005	<0.0005	<0.0005	<0.0005
2/1/2023			<0.0005		<0.0005	0.00046717	~0.0003	<b>\0.0003</b>	<b>~</b> 0.0003	-0.0000
21012023			-0.0003		-0.0003	0.00046 (J)				

	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							

	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	<0.0005
8/30/2022	<0.0005
8/31/2022	
9/1/2022	0.0001071
2/7/2023	0.00012 (J)
2/8/2023	

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

	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			

	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				

		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	0.0000			
9/20/2016				
11/2/2016				
11/4/2016				
11/8/2016				
11/16/2016	<0.0005			
1/12/2017	0.0000			
1/13/2017				
1/16/2017				
2/24/2017	<0.0005			
2/27/2017	-0.0000			
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				

		YGWC-43
4/3/20	019	
4/4/20	019	
8/21/2	2019	<0.0005
8/22/2	2019	
9/24/2	2019	
9/25/2	2019	
9/27/2	2019	
10/9/2	2019	<0.0005
2/12/2	2020	
3/24/2	2020	
3/25/2	2020	<0.0005
3/26/2	2020	
9/22/2	2020	
9/24/2	2020	
9/25/2	2020	<0.0005
2/8/20	021	
2/9/20	021	<0.0005
2/10/2	2021	
3/2/20	021	
3/3/20	021	
3/4/20	021	<0.0005
8/25/2	2021	
8/26/2	2021	
9/3/20	021	
9/27/2	2021	<0.0005
2/8/20	022	<0.0005
2/10/2	2022	
2/11/2	2022	
8/30/2	2022	
8/31/2	2022	
9/1/20	022	<0.0005
2/7/20	023	
2/8/20	023	<0.0005
2/9/20	023	

	YGWC-49	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	(1)
2/21/2017								<0.0005	
2/22/2017			<0.0005					0.0000	
2/24/2017		9E-05 (J)	-0.0000						
2/27/2017	7E-05 (J)	32 00 (0)							
3/1/2017	72-03 (0)								
3/2/2017					<0.0005	<0.0005			<0.0005
3/3/2017					-0.0003	-0.0003	<0.0005		30.0000
				7E 0E / I			~0.0000		
3/8/2017				7E-05 (J) <0.0005				<0.0005	<0.0005
4/26/2017				~0.0003	<0.000E	<0.000E		<0.0005	<0.0005
4/27/2017					<0.0005	<0.0005	<0.000E		
4/28/2017		0.0001 (1)	<0.000E				<0.0005		
5/8/2017		0.0001 (J)	<0.0005						

	YGWC-49	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				0.0000	0.0000	0.0000	<0.0005	0.000
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				0.000	
J. 2. 202 1			0.000	0.000					

	YGWC-49	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								

	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	<0.000E
4/26/2017	<0.0005
4/27/2017	
4/28/2017	
5/8/2017	

		Flailt Tates	Client. Southern Company	Data. Flant Tates AlviA-110
	YGWA-3I (bg)			
5/9/2017	( 3)			
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	-0.0005			
9/23/2020	<0.0005			
9/24/2020 9/25/2020				
2/9/2021				
2/10/2021	<0.0005			
2/10/2021	-0.0000			
2/11/2021				
3/1/2021				
3/2/2021				
* <del>=</del> *				

	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	

	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					
9/20/201	6						<0.0005	
11/8/201	6						<0.0005	
11/14/20	16		9E-05 (J)					
1/17/201	7						<0.0005	
2/28/201	7		0.0001 (J)					
3/8/2017							<0.0005	
5/2/2017							<0.0005	
5/9/2017			0.0002 (J)					
7/7/2017							<0.0005	
7/13/201	7		0.0002 (J)					
9/22/201	7		0.0002 (J)					
9/29/201	7		0.0002 (J)					
10/6/201	7		0.0002 (J)					
10/12/20	17	0.0002 (J)						
11/21/20	17	0.0002 (J)						
1/11/201	8	0.0004 (J)						
2/20/201		<0.001						
3/30/201	8		<0.0005				<0.0005	
4/3/2018		<0.001						
6/12/201							<0.0005	
6/13/201			0.00019 (J)					
6/29/201		0.00099 (J)	. ,					
8/6/2018		0.00063 (J)						
9/24/201		0.00069 (J)						
9/26/201		. ,	0.00018 (J)				<0.0005	
10/16/20			( )					
3/5/2019							<0.0005	
3/6/2019			0.00015 (J)					
4/4/2019			0.00019 (J)				<0.0005	
9/26/201			0.00017 (J)				<0.0005	
3/25/202			0.00019 (J)					
3/26/202			( )				<0.0005	
9/23/202							<0.0005	
9/24/202								
9/25/202		0.00039 (J)						
10/7/202			0.00012 (J)					
2/9/2021		0.00042 (J)					<0.0005	
2/10/202			<0.0005					
3/3/2021							<0.0005	
3/4/2021		0.00028 (J)	<0.0005					
8/25/202		0.00094						
9/1/2021							<0.0005	
9/3/2021			<0.0005	<0.0005				
2/10/202	2 <0.0005	0.00093				0.0019	<0.0005	
2/11/202			<0.0005	<0.0005	<0.0005			
8/31/202								
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			<0.0005			0.0018		
	- 7							

Constituent: Cadmium (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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

	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 (13)	6.2	1.4	
6/7/2016						2.2			2.3
7/27/2016						2	4.73	1.19	2.08
7/28/2016						_			2.00
9/16/2016						1.97		1.5	
9/19/2016						1.57	4.76	1.5	1.97
11/2/2016							4.70		2.13
11/3/2016						1.99	5.25	1.31	2.10
1/11/2017						2.28	4.74	1.25	
1/13/2017						2.20	4.74	1.23	2.45
3/1/2017							5.37	1.26	2.43
3/2/2017						2.15	5.57	1.20	
3/6/2017						2.15			2.48
4/26/2017							4.28	1.05	2.3
						1.05	4.20	1.05	2.3
5/2/2017						1.95	4.05	1.00	
6/28/2017						2.02	4.95	1.06	0.54
6/29/2017						2.02			2.54
10/3/2017						0.00			0.05
10/4/2017						2.03	5.00	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						

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	(0)
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	Ü
9/23/2020	
9/24/2020	7.8
3/3/2021	7.0
3/4/2021	8.7
8/25/2021	0.7
8/26/2021	
8/27/2021	
9/1/2021	0.5
	9.5
9/3/2021	0.0
2/9/2022	9.8
2/10/2022 8/30/2022	7.3
	1.3
8/31/2022	
9/1/2022	7.5
2/7/2023	7.5
2/8/2023	

2/9/2023

6/2/2016	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg) 8.8	YGWA-5D (bg)	YGWA-5I (bg) 2.4	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/7/2016			0.0	33	2.4	0.6			
			7.00	20.0	0.10	9.6			
7/26/2016			7.69	32.3	2.12	7.07			
7/28/2016						7.87			400
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	4.54	10.2						40.0	
1/11/2018	1.54						.=-	43.9	
1/12/2018							178		
2/19/2018	4 74	<25					10.4	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	40.7	
8/7/2018	1.2	6.3					176	40.7	100
9/20/2018	4.4	5.7					170	20.5	108
9/24/2018	1.1	5.7	0.5 ( 1)	25.0	2.2		172	38.5	
9/26/2018			9.5 (J)	25.8	2.3	4.1			
9/27/2018		5.0				4.1			
3/26/2019	1 5	5.6					155		100
3/27/2019	1.5						155		109

3/28/2019	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41 26	YGWC-42
4/3/2019			8.4	24.7 (J)	2.8			20	
4/4/2019			0.4	24.7 (3)	2.0	3.7			
9/24/2019				25.8	2.5	5.7			
9/25/2019			9.5	20.0	2.0				
9/27/2019			5.5			3.7			
10/9/2019	2.4	4.9				0.7	133	27.6	92
3/24/2020	2	4.8		26.1	2.5		.00	27.0	02
3/25/2020	2.7		10.5	20	2.0		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				

			Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
		YGWC-43			
6	/2/2016	14110 40			
	77/2016				
	//26/2016				
	/28/2016				
	/30/2016	2.4			
		3.4			
	/14/2016				
	/20/2016				
	1/2/2016				
	1/4/2016				
	1/8/2016				
		3.79			
	/12/2017				
	/13/2017				
	/16/2017				
		6.42			
	/27/2017				
	/6/2017				
	/7/2017				
	/9/2017				
	/1/2017				
	/2/2017				
		7.9			
	/27/2017				
	/29/2017				
	/10/2017				
		6.71			
	0/3/2017				
	0/5/2017				
	0/11/2017				
		7.05			
	1/20/2017				
	1/21/2017				
	/10/2018				
	/11/2018				
	/12/2018				
	/19/2018				
	/20/2018				
	/3/2018	9.6			
		8.6			
	6/6/2018				
	5/7/2018 5/12/2018				
	6/12/2018				
	/27/2018				
	7/2018				
	/20/2018	15.9 (J)			
	/20/2018	(0)			
	/24/2018				
	/27/2018				
	/26/2019				
	/27/2019				
3					

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

	YGWC-49	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			

6/7/2018	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg) 25	YGWA-30I (bg)	YGWA-3D (bg) 29.1
6/8/2018				1.1			20		20.1
6/11/2018								1.1	
8/6/2018			11.4 (J)						
9/19/2018		11.1 (J)	11.4 (0)						
9/20/2018	12 (J)	11.1 (0)							
10/1/2018	.2 (0)			0.99	15.1	1.8	25		26.9
10/2/2018				0.55	10.1	1.0	20	1.1	20.0
2/25/2019			12.7 (J)						
3/27/2019		10.8 (J)	12.7 (0)						
3/28/2019	11.3 (J)	10.0 (0)			13.3 (J)	2.2			
3/29/2019	11.0 (0)			1.1	10.0 (0)	2.2	23.5 (J)		
4/1/2019							20.0 (0)	1.3	30.1
6/12/2019			18.9						00.1
9/24/2019			10.0		15.8	2.3	26.4		
9/25/2019				1.1	10.0	2.0	20.4	1.1	29.5
9/26/2019	12.1								20.0
10/8/2019		9.7	28.3						
3/17/2020		14.8	24.3						
3/18/2020			20	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								

		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				
2/24/2017				
3/1/2017	18.6			
3/2/2017	16.0			
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				
2/19/2018 4/2/2018				
4/2/2018				
6/5/2018				
6/6/2018				
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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

	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

	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						٦.,	0.5	0.1	2.3
3/1/2017							6.9	6	2.0
3/2/2017						4.8	0.5	o .	
3/6/2017						4.0			1.9
4/26/2017							7	6.5	2
5/2/2017						4.6	,	0.5	2
						4.0	7	6.4	
6/28/2017 6/29/2017						4.5	7	6.4	2.6
						4.5			2.6
10/3/2017						4.7		0.0	0.0
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						

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	
0.0.000	

2/9/2023

	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

	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				

		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				
	1.5			
9/14/2016				
9/20/2016				
11/2/2016 11/4/2016				
11/8/2016				
	17			
	1.7			
1/12/2017				
1/13/2017				
1/16/2017	4.5			
	1.5			
2/27/2017				
3/6/2017				
3/7/2017				
3/9/2017				
5/1/2017				
5/2/2017	10			
	1.2			
6/27/2017				
6/29/2017				
7/10/2017	4.5			
	1.5			
10/3/2017				
10/5/2017				
10/11/2017	1.6			
	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				
	1.8			
6/6/2018	1.0			
6/7/2018				
6/12/2018				
6/27/2018				
6/28/2018				
8/7/2018				
	1.9			
9/24/2018	-			
9/26/2018				
9/27/2018				
3/26/2019				
3/27/2019				

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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

6/1/2016	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg) 1.3	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/2/2016				4.1	1.3	1.0		1.9	1.4
7/25/2016				4.1		1.4		1.7	1.4
7/26/2016				4	1.2	1.4		1.7	1.6
8/30/2016		5.2		4	1.2				1.0
8/31/2016		5.2	4						
9/1/2016	5.3		•						
9/13/2016	5.5				1.1	1.3			
9/14/2016					1.1	1.5	1.1		
9/15/2016				4.2			1.1		1.5
9/19/2016				4.2				1.6	1.0
11/1/2016					1.3			1.8	1.7
11/2/2016				4.9	1.0			1.0	1.7
11/4/2016						1.6	1.4		
11/14/2016		6.4				1.0	1		
11/15/2016	5.8	0.4							
11/28/2016	0.0		4.2						
12/15/2016			7.2				2.9		
1/10/2017				4.1			2.0		
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	0.7						
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			

6/7/2018	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg) 1.2
6/8/2018				3.4			•		1.2
6/11/2018				0.4				2	
8/6/2018			3.8					2	
9/19/2018		4	3.0						
9/20/2018	4.8	7							
10/1/2018	4.0			3.8	1.1	1.4	1.1		1.5
10/2/2018				3.0	1.1	1.4	1.1	1.8	1.5
2/25/2019			4.1					1.0	
3/27/2019		4.3	7.1						
3/28/2019	4.4	4.0			1.4	1.5			
3/29/2019	4.4			4.2		1.0	1.2		
4/1/2019				4.2			1.2	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								

		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	1.2			
10/4/2017	1.2			
10/5/2017 10/10/2017				
10/10/2017				
10/11/2017				
2/19/2018				
4/2/2018				
4/4/2018				
6/5/2018				
6/6/2018				

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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

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	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

•	1010010	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
	/6/2016							0.0012 (J)	<0.005	
	7/2016						<0.005			<0.005
	//27/2016						0.0008 (J)	0.0007 (J)	0.0006 (J)	0.0005 (J)
	//28/2016									
	/16/2016						<0.005		<0.005	
9	/19/2016							<0.005		<0.005
1	1/2/2016									<0.005
1	1/3/2016						<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
	/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)	
	/31/2022	<0.005							. ,	<0.005
	/1/2022		<0.005	<0.005	<0.005	<0.005				
	/7/2023						<0.005	<0.005	0.0016 (J)	<0.005
	/8/2023		<0.005		<0.005	<0.005			- (-)	
	/9/2023	<0.005		<0.005						
		3.000		2.000						

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

	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					0.000	0.0007 (0)			0.0006 (J)
6/27/2017				<0.005	<0.005				0.0000 (0)
6/29/2017			<0.005	-0.000	-0.000				
7/10/2017			-0.000			<0.005			
7/11/2017						-0.000			<0.005
10/11/2017	<0.005								10.000
10/11/2017	-0.003	<0.005					0.0005 (J)	<0.005	<0.005
11/20/2017	<0.005	<0.005					<0.005	10.003	10.003
11/21/2017	-0.003	10.000					10.000	<0.005	
1/10/2018		<0.005						10.003	
1/11/2018	<0.005	<b>~0.003</b>						<0.005	
1/12/2018	<b>~</b> 0.003						<0.005	<b>~0.003</b>	
2/19/2018		<0.005					<b>~0.003</b>	<0.005	
2/20/2018	<0.005	<b>~0.003</b>					<0.005	<b>~0.003</b>	
3/29/2018	<b>~</b> 0.003		<0.005	<0.005	<0.005		<b>~0.003</b>		
3/30/2018			<0.005	<0.003	<0.005	<0.00E			
4/3/2018	<0.005	<0.005				<0.005	<0.005	<0.005	
4/4/2018	<0.005	<0.005					<0.005	<0.003	<0.00E
6/27/2018								<0.005	<0.005
	<0.00E	<0.00E					<0.00E	<0.005	
6/28/2018	<0.005	<0.005					<0.005	-0.005	
8/7/2018	<0.005	<0.005					<0.005	<0.005	-0.005
9/20/2018	-0.005	10.005					10.005	10.005	<0.005
9/24/2018	<0.005	<0.005	.0.005	.0.005	.0.005		<0.005	<0.005	
3/4/2019			<0.005	<0.005	<0.005	-0.005			
3/6/2019		0.00050 ( "				<0.005			
8/21/2019	<0.005	0.00053 (J)					10.005	10.005	-0.005
8/22/2019		0.0040 ( "					<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)				

	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)				

		Plant Yates	Client: Southern Company	Data: Plant Yates AMA-Rb
	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	VO.003			
9/20/2016				
11/2/2016				
11/4/2016				
11/8/2016				
11/16/2016	<0.005			
1/12/2017	0.000			
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	0.00074 (1)			
10/9/2019	0.00074 (J)			
2/12/2020				
3/24/2020				

	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	

	YGWC-49	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			10.000		0.0035	<0.005			
6/2/2016				<0.005	0.0000	-0.000		<0.005	0.0013 (J)
7/25/2016				10.003		<0.005		<0.005	0.0013 (0)
7/26/2016				<0.005	<0.005	<b>~</b> 0.003		<b>~</b> 0.003	<0.005
8/30/2016		<0.005		<b>~0.003</b>	<b>~0.003</b>				<b>-0.003</b>
8/31/2016		<b>~0.003</b>	<0.005						
	0.0012 (1)		<0.005						
9/1/2016	0.0013 (J)				<0.00E	<0.005			
9/13/2016					<0.005	<0.005	<0.00E		
9/14/2016				-0.005			<0.005		10.005
9/15/2016				<0.005				.0.005	<0.005
9/19/2016					10.005			<0.005	10.005
11/1/2016				2.225	<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						

					,				
	YGWC-49	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			0.000	<0.005		<0.005		<0.005	
3/28/2018							<0.005		<0.005
3/29/2018					<0.005		-0.000		-0.000
4/2/2018		<0.005			10.003				
4/4/2018	<0.01	<0.005							
	<b>\0.01</b>		<0.00E						
8/6/2018		-0.005	<0.005						
9/19/2018	0.0017 (1)	<0.005							
9/20/2018	0.0017 (J)		0.005						
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			5.555	0.000	<0.005	<0.005	<0.005		<0.005
5.0/2021					0.000	0.000	0.000		5.555

	YGWC-49	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)								

	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	
	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	

		Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
	YGWA-3I (bg)			
5/9/2017	. (-3)			
5/26/2017				
6/27/2017				
6/28/2017	<0.005			
	<b>10.003</b>			
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			

	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	

	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				0.000
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

0/0/0010	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	0.00061 (J)	10.005
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					0.000	0.000	0.000	0.000
3/5/2019	0.032					<0.005		<0.005	<0.005
3/6/2019						<b>~</b> 0.003	<0.005	<b>~0.003</b>	<b>~0.003</b>
						<0.00E	<b>~0.003</b>		
4/2/2019						<0.005	-0.005	-0.005	10.005
4/3/2019							<0.005	<0.005	<0.005
9/24/2019						.0.005			0.005
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

	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						

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	(0)
9/26/2019	
1/3/2020	
2/11/2020	
2/12/2020	0.0081
3/24/2020	0.0061
3/25/2020	0.0001
9/23/2020	
9/24/2020	0.0079
2/9/2021	0.0073
3/3/2021	0.009
3/4/2021	0.0065
	0.0065
8/25/2021	
8/26/2021	
8/27/2021	0.0000
9/1/2021	0.0068
2/9/2022	0.0078
2/10/2022	
8/30/2022	0.0066
8/31/2022	
9/1/2022	

0.014

2/7/2023

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

	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			

	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				

		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	0.000			
9/20/2016				
11/2/2016				
11/4/2016				
11/8/2016				
11/16/2016	<0.005			
1/12/2017	0.000			
1/13/2017				
1/16/2017				
2/24/2017	<0.005			
2/27/2017	-0.000			
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				

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

	YGWC-49	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			0.0027		<0.005	0.00082 (J)			
6/2/2016				<0.005	10.000	0.00002 (0)		0.035	<0.005
7/25/2016				<b>~0.003</b>		0.0008 (J)		0.033	<b>-0.003</b>
				<0.00E	<0.00E	0.0008 (3)		0.0312	<0.00E
7/26/2016		0.0073 (1)		<0.005	<0.005				<0.005
8/30/2016		0.0073 (J)	0.0052 (1)						
8/31/2016	-0.005		0.0053 (J)						
9/1/2016	<0.005				-0.005	0.0000 (1)			
9/13/2016					<0.005	0.0009 (J)	.0.005		
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)						

					,				
	YGWC-49	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)	(1)						
10/11/2017	0.0006 (J)								
10/16/2017	(,		0.0034 (J)						
2/19/2018			<0.005						
3/27/2018			-0.000	<0.005		<0.005		0.023	
3/28/2018				-0.000		-0.000	<0.005	0.020	<0.005
3/29/2018					<0.005		<b>~0.003</b>		<b>~</b> 0.003
		<0.00E			<0.005				
4/2/2018	<0.00E	<0.005							
4/4/2018	<0.005				-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	<del>-</del>		0.2 (O)						
8/27/2020		0.0011 (J)	(-/						
9/22/2020		0.00097 (J)	0.16 (O)						
9/23/2020		0.00007 (0)	0.10(0)		<0.005	0.0013 (J)	<0.005		<0.005
9/24/2020	<0.005				-0.000	0.0010 (0)	-0.000	0.0064	0.000
J12712020	~0.00J							0.0004	

	YGWC-49	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								

		Flailt Tates	Client. Southern Company	Data. Flant Tates AWA-NO	
	YGWA-3I (bg)				
5/1/2007	( 3)				
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					

		, , , , , , , , , , , , , , , , , , ,	
	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	0.005		
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	-0.000		
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			

	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	

	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				0.000
3/8/2017			0.000				<0.005
5/2/2017							<0.005
5/9/2017			<0.005				
7/7/2017			0.000				<0.005
7/13/2017			<0.005				0.000
9/22/2017			<0.005				
9/29/2017			<0.005				
10/6/2017			<0.005				
10/12/2017		0.0078 (J)	10.000				
11/21/2017		0.0070 (J)					
1/11/2018		0.0131					
2/20/2018		0.0162					
3/30/2018		0.0102	<0.005				<0.005
4/3/2018		0.015	-0.000				4.000
6/12/2018		0.010					<0.005
6/13/2018			<0.005				40.000
6/29/2018		0.013	-0.000				
8/6/2018		0.0053 (J)					
9/24/2018		0.0071 (J)					
9/26/2018		0.0071 (0)	<0.005				<0.005
10/16/2018	<0.005		-0.000				4.000
3/5/2019	-0.000						<0.005
3/6/2019			<0.005				0.000
4/4/2019			<0.005				<0.005
9/26/2019	<0.005		0.00048 (J)				<0.005
3/25/2020	0.0059		0.00048 (J)				4.000
3/26/2020	0.0000		0.00000 (0)				<0.005
9/23/2020							<0.005
9/24/2020	<0.005						0.000
9/25/2020	0.000	0.0023 (J)					
10/7/2020		(,)	0.00086 (J)				
2/9/2021		0.0023 (J)	0.0000 (0)				<0.005
2/10/2021	<0.005	0.0020 (0)	0.00038 (J)				4.000
3/3/2021	-0.000		0.0000 (0)				<0.005
3/4/2021	<0.005	0.003 (J)	<0.005				4.000
8/25/2021	-0.000	0.0068	10.000				
9/1/2021	<0.005	0.0000					<0.005
9/3/2021	-0.000		<0.005	<0.005			4.000
2/10/2022	<0.005	0.0036 (J)	5.000	5.000		0.033	<0.005
2/10/2022	5.000	0.0000 (0)	<0.005	<0.005	0.0011 (J)	0.000	0.000
8/31/2022	<0.005		5.000	5.000	3.0011(0)		
9/1/2022		0.0025 (J)	<0.005	<0.005	0.0016 (J)	0.018	
2/8/2023		0.0023 (J)	3.000	<0.005	0.0016 (J)	2.0.0	
2/9/2023	<0.005	0.0022 (0)	<0.005	5.000	3.0020 (0)	0.0071	
_ 0.2020	3.000		3.000				

Constituent: Cobalt (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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

6/6/2016	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg) 0.0804 (U)	YGWA-18S (bg) 0.301 (U)	YGWA-20S (bg)
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						0.0004 (0)	0.200 (0)	0.100 (0)	0.041 (0)
9/16/2016						1.04		0.915 (U)	
9/19/2016						1.04	1.58	0.913 (0)	0.826 (U)
11/2/2016							1.56		
						0.214 (11)	0.242 (11)	0.028 (11)	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)	0.000 (11)
1/13/2017							0.205 (11)	0.000 (11)	0.296 (U)
3/1/2017						0.740 (11)	0.395 (U)	0.202 (U)	
3/2/2017						0.746 (U)			0.510 (11)
3/6/2017							0.507.(1)	0.004 (11)	0.518 (U)
4/26/2017						0.444 (11)	0.507 (U)	0.264 (U)	0.282 (U)
5/2/2017						0.111 (U)	0.000	0.000 (1.1)	
6/28/2017						0.570 (11)	0.892	0.636 (U)	1.10
6/29/2017						0.576 (U)	0.00 (11)	0.50 (1.1)	1.12
3/28/2018						0.438 (U)	0.92 (U)	0.56 (U)	4.70
3/29/2018									1.73
6/5/2018									0.004.410
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									4.42.410
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)	4.05			
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		0.0001.00		0.000 ""	0.500 ""	0.367 (U)	0.485 (U)	0.656 (U)	0.794 (U)
2/8/2023		0.0994 (U)		0.239 (U)	0.502 (U)				

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# **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

Talk rates of office countries of party bata. Fall rates rates rates rates and rates rates and r

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

	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	1.8
9/24/2020	
2/9/2021	1.24
3/3/2021	1.2
3/4/2021 8/25/2021	
8/26/2021	
8/27/2021	1.86
9/1/2021 2/9/2022	1.94
2/10/2022	1.94
8/30/2022	1.27
8/31/2022	1.4/
9/1/2022	
2/7/2023	1.53
2/8/2023	1.33
0,2020	

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

	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)			

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

	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							

0.4 (U)

0.0815 (U)

0.361 (U)

0.852 (U)

0.817

2/8/2023

2/9/2023

1.56

1.12

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	0.020 (0)			
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	1.71			
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	<del></del>			
9/26/2018				
9/27/2018				
3/4/2019				
3/6/2019				

	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	

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

6/1/2016	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg) 0.321 (U)	YGWA-1I (bg) 0.42	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/2/2016				0.329 (U)	0.02. (0)	0.12		0.0652 (U)	2.51
7/25/2016				0.323 (0)		1.83		3.01	2.01
7/26/2016				1.51	0.707 (U)	1.03		3.01	3.82
8/30/2016		1.09		1.51	0.707 (0)				3.02
		1.09	1.2						
8/31/2016	1.0		1.2						
9/1/2016	1.2				1.00	0.044			
9/13/2016					1.22	0.841	0.00 (11)		
9/14/2016				1.04 (11)			0.98 (U)		4.04
9/15/2016				1.04 (U)				0.074 (11)	4.24
9/19/2016					0.005 (11)			0.871 (U)	2.00
11/1/2016				0.400.410	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

		YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/8/2					0.218 (U)					
	/2018								0.608 (U)	
8/6/2				0.196 (U)						
9/19/			0.789 (U)							
	/2018	1.14 (U)								
	/2018				1.24	0.783 (U)	1.06 (U)	0.756 (U)		3.14
	/2018								0.97 (U)	
	/2019				0.202 (U)				0.524 (U)	
	/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)		
4/1/2	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)					
2/9/2	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)			
3/1/2	2021		1.2						0.412 (U)	
3/2/2	2021			0.948 (U)	0.71 (U)					
3/3/2	2021					0.492 (U)	0.105 (U)	0.459 (U)		3.58
3/4/2	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)		
9/1/2	2021	0.686 (U)								
2/8/2	2022	0.201 (U)	0.4 (U)	0.462 (U)						
2/9/2	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)		
	/2022	0.823 (U)	0.714 (U)		0.421 (U)		0.49 (U)	•	0.506 (U)	2.12
2/7/2			. ,	1	. ,	0.92 (U)	0.661 (U)	0.536 (U)		
2/8/2			0.375 (U)		0.83 (U)			•	0.417 (U)	2.74
2/9/2		0.667 (U)								
		. ,								

		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	0.672.(11)			
4/26/2017 4/27/2017	0.672 (U)			
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				

VOMA 21/ha)	
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	

	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)	

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)

	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	40.1	<0.1
						<b>~0.1</b>			<b>-0.1</b>
10/3/2017						-0.4		-0.1	.0.1
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	<0.1	
	-0.4	<b>~</b> 0.1		<0.1	-0.4	<0.1	<b>~0.1</b>	<b>\0.1</b>	.0.1
9/24/2020	<0.1			0.14	<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

	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)						

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	0.13 (3)
6/7/2018	
6/11/2018	0 (1)
9/25/2018	0 (J)
10/16/2018	0.00
3/5/2019	0.32
3/6/2019	0.40 (1)
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
0/04/0000	

8/31/2022

	YGWA-21I (bg)
9/1/2022	
2/7/2023	0.1
2/8/2023	
2/9/2023	

	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			

0/4/0040	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				<0.1			
3/26/2019	-0.1	<0.1					0.24 ( 1)		-0.1
3/27/2019 3/28/2019	<0.1						0.24 (J)	0.170	<0.1
4/3/2019			<0.1	0.047 (J)	<0.1			0.1 (J)	
4/4/2019			<b>~0.1</b>	0.047 (3)	<b>~0.1</b>	0.049 (J)			
8/21/2019	<0.1	<0.1				0.043 (0)			
8/22/2019	-0.1	-0.1					<0.1	<0.1	<0.1
9/24/2019				0.05 (J)	<0.1		-0.1	-0.1	-0.1
9/25/2019			<0.1	(0)					
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	0.050 (1)	-0.1						-0.1	
2/8/2022	0.052 (J)	<0.1		0.055 (1)	-0.1	-0.1	-0.1	<0.1	-0.1
2/10/2022 2/11/2022			<0.1	0.055 (J)	<0.1	<0.1	<0.1		<0.1
8/30/2022			<b>~</b> 0.1	0.085 (J)	<0.1				
8/31/2022	0.065 (J)	0.05 (J)	0.061 (J)	0.083 (3)	<b>~0.1</b>				
9/1/2022	3.000 (0)	3.00 (0)	0.001 (0)			0.057 (J)	<0.1	<0.1	0.053 (J)
2/7/2023	0.076 (J)			0.082 (J)		(2)			(-/
2/8/2023	\-/	<0.1		(-)		<0.1	<0.1	<0.1	0.08 (J)
2/9/2023			0.067 (J)		<0.1				• ,
			* *						

			Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
		YGWC-43			
6	/2/2016				
	7/2016				
	//26/2016				
	//28/2016				
	/30/2016				
	/31/2016	0.12 (J)			
	/14/2016	. ,			
	/20/2016				
	1/2/2016				
	1/4/2016				
	1/8/2016				
	1/16/2016	0.2 (J)			
	/12/2017				
	/13/2017				
	/16/2017				
2	/24/2017	0.21 (J)			
	/27/2017				
3	/6/2017				
	/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)			
1	0/3/2017				
1	0/5/2017				
1	0/11/2017				
1	0/12/2017	0.1 (J)			
1	1/20/2017				
	1/21/2017				
	/10/2018				
	/11/2018				
	/12/2018				
	/19/2018				
	/20/2018				
	/29/2018				
	/30/2018				
	/3/2018				
	/4/2018	<0.1			
	/6/2018				
	/7/2018				
	/12/2018				
	/27/2018				
	5/28/2018				
	/7/2018	-0.1			
	/20/2018	<0.1			
	/24/2018				
	/26/2018				
٤	/27/2018				

Constituent: Fluoride (mg/L) Analysis Run 4/26/2023 11:07 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWC-43
0.078 (J)
0.062 (J)
<0.1
0.073 (J)
<0.1
0.058 (J)
0.063 (J)
0.1
0.066 (J)
0.091 (J)
0.11

2/9/2023

0.11.00.10	YGWC-49	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				-0.4	0.12 (J)	<0.1		-0.1	0.00
6/2/2016				<0.1		0.06 (1)		<0.1	0.62
7/25/2016				0.03 (1)	0.08 (1)	0.06 (J)		0.06 (J)	0.40
7/26/2016 8/30/2016		0.09 (J)		0.02 (J)	0.08 (J)				0.49
8/31/2016		0.09 (3)	0.14 (J)						
9/1/2016	0.09 (J)		0.14 (3)						
9/13/2016	0.03 (0)				0.11 (J)	<0.1			
9/14/2016					0.11 (0)	40.1	0.08 (J)		
9/15/2016				<0.1			0.00 (3)		0.54
9/19/2016				· · ·				<0.1	0.01
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		<0.1					
10/10/2017	0.14 ( 1)	<0.1							
10/11/2017	0.14 (J)		0.12 ( 1)						
10/16/2017			0.12 (J) 0.17						
2/19/2018 3/27/2018			0.17	<0.1		<0.1		<0.1	
3/28/2018				-0.1		-U. I	0.31	-0.1	0.56
3/29/2018					<0.3		5.51		5.50
4/2/2018		<0.1			0.0				
		•							

	YGWC-49	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
					.,		. ,		

	YGWC-49	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								

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	
4/2/2010	

4/2/2018

		Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
	YGWA-3I (bg)			
4/4/2018	(-9)			
6/5/2018				
6/6/2018				
6/7/2018				
6/8/2018	0.2 (J)			
6/11/2018	0.2 (3)			
8/6/2018				
9/19/2018				
9/20/2018				
10/1/2018	<0.1			
10/1/2018	-0.1			
2/25/2019				
2/26/2019				
2/27/2019	0.13 (J)			
3/27/2019	0.13 (3)			
3/28/2019 3/29/2019				
	0.171)			
4/1/2019	0.1 (J)			
6/12/2019 8/19/2019				
8/20/2019				
9/24/2019				
	0.171)			
9/25/2019 9/26/2019	0.1 (J)			
10/8/2019				
2/10/2020 2/11/2020	0.004 (1)			
2/11/2020	0.094 (J)			
3/17/2020				
3/18/2020 3/19/2020	0.11 (J)			
3/25/2020	0.11 (3)			
8/26/2020				
8/27/2020				
9/22/2020				
9/23/2020	0.098 (J)			
9/24/2020	0.030 (0)			
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)			

	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	

					,		
	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		0.40	<0.1				<0.1
4/3/2018		0.31	-0.1				-0.1
6/12/2018		0.01					<0.1
6/13/2018			<0.1				-0.1
6/29/2018		<0.1	30.1				
8/6/2018		0.23 (J)					
9/24/2018		<0.1					
9/26/2018		40.1	<0.1				<0.1
10/16/2018	<0.1		<b>~0.1</b>				<b>V</b> U. 1
3/5/2019	40.1						<0.1
3/6/2019			<0.1				-0.1
4/4/2019			0.043 (J)				0.033 (J)
9/26/2019	<0.1		0.043 (J) 0.094 (J)				0.098 (J)
3/25/2020	<0.1		<0.1				0.000 (0)
3/26/2020	30.1		30.1				<0.1
9/23/2020							<0.1
9/24/2020	<0.1						·0.1
9/25/2020	<0.1	-0.1					
		<0.1	-0.1				
10/7/2020		-0.1	<0.1				40.1
2/9/2021	-0.1	<0.1	-0.4				<0.1
2/10/2021	<0.1		<0.1				
3/3/2021	.0.4	.0.4					<0.1
3/4/2021	<0.1	<0.1	<0.1				
8/25/2021	-0.4	<0.1					.0.1
9/1/2021	<0.1			0.45			<0.1
9/3/2021	-0.1	-0.1	<0.1	0.15		0.1	.0.1
2/10/2022	<0.1	<0.1		0.17	0.4	0.1	<0.1
2/11/2022			<0.1	0.17	0.1		
8/31/2022	<0.1	.0.4		0.05	0.44	0.46	
9/1/2022		<0.1	<0.1	0.35	0.11	0.13	

	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)

6/6/2016	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg) <0.001	YGWA-18S (bg) <0.001	YGWA-20S (bg)
6/7/2016						<0.001			<0.001
7/27/2016						<0.001	<0.001	<0.001	<0.001
						<b>\0.001</b>	<b>~0.001</b>	<b>\0.001</b>	<b>\0.001</b>
7/28/2016						.0.004		0.004	
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	<0.001	0.001
2/11/2020	10.001					<0.001	<0.001	<0.001	
2/12/2020						-0.001	-0.001	-0.001	<0.001
3/24/2020						6.4E-05 (J)	7.1E-05 (J)	5.4E-05 (J)	0.0001 0.00011 (J)
	<0.001					0.4L-03 (3)	7.1L-03 (3)	3.4L-03 (J)	0.00011(3)
3/25/2020	<0.001	<0.001		0.00038 (1)		4.15.05 (1)	CE OF (I)	0.75.05.(1)	
9/23/2020	.0.004	<0.001		0.00028 (J)	0.00044 (1)	4.1E-05 (J)	6E-05 (J)	9.7E-05 (J)	0.05.05.410
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						

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	.0.004
3/4/2021	<0.001
8/25/2021	
8/26/2021	
8/27/2021	<0.001
9/1/2021	<0.001
2/9/2022 2/10/2022	~U.UU1
8/30/2022	<0.001
8/31/2022	~U.UU I
9/1/2022	
2/7/2023	<0.001
2/1/2023	~U.UU I
21012023	

2/9/2023

6/	/2/2016	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg) <0.001	YGWA-5D (bg) <0.001	YGWA-5I (bg) <0.001	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
	7/2016			-0.00 i	V0.001	10.001	0.00044 (J)			
	/26/2016			<0.001	<0.001	<0.001	0.00044 (3)			
				<0.001	<0.001	<0.001	<0.001			
	/28/2016						<0.001			<b>-0.001</b>
	/30/2016									<0.001
	/31/2016			0.004	.0.004	0.004				
	/14/2016			<0.001	<0.001	<0.001				
	/20/2016						<0.001			
	1/2/2016			<0.001	<0.001	0.004				
	1/4/2016					<0.001	.0.004			
	1/8/2016						<0.001			0.0000 (1)
	1/16/2016				.0.004	0.004				0.0002 (J)
	/12/2017			0.004	<0.001	<0.001				
	/13/2017			<0.001			0.004			
	/16/2017						<0.001			
	/24/2017									10.001
	27/2017			0.004						<0.001
	6/2017			<0.001	0.0004 (1)	75.05 (1)				
	7/2017				0.0001 (J)	7E-05 (J)	-0.001			
	9/2017			-0.001	-0.001		<0.001			
	/1/2017			<0.001	<0.001	-0.001	-0.001			
	/2/2017					<0.001	<0.001			05.05 ( 1)
	/10/2017				<0.001	-0.001				9E-05 (J)
	/27/2017 /29/2017			<0.001	<0.001	<0.001				
	/10/2017			<b>~0.001</b>			<0.001			
	/11/2017						-0.001			<0.001
	0/11/2017	0.0001 (J)								
	0/12/2017		9E-05 (J)					0.0001 (J)	<0.001	<0.001
	1/20/2017	<0.001	<0.001					0.0001 (J)		
	1/21/2017							, ,	<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
	/24/2018	<0.001	<0.001					<0.001	<0.001	
	4/2019			<0.001	<0.001	<0.001				
	6/2019						<0.001			
	/3/2019			<0.001	<0.001	<0.001	0.004			
	/4/2019	-0.001	-0.001				<0.001			
	/21/2019	<0.001	<0.001					<0.001	6.7E-05 (J)	<0.001
	/22/2019 /24/2019				<0.001	9E-05 (J)		<0.001	0.7E-03 (J)	<0.001
31	2-120 IJ				-0.001	o⊏-00 (0)				

	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				

		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				

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

	YGWC-49	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			<b>10.001</b>		0.00056 (J)	<0.001			
6/2/2016				<0.001	0.00030 (0)	10.001		<0.001	0.00056 (J)
7/25/2016				40.001		<0.001		<0.001	0.00000 (0)
7/26/2016				<0.001	<0.001	<b>\0.001</b>		<b>~0.001</b>	0.0001 (J)
8/30/2016		<0.001		<b>~0.001</b>	<b>\0.001</b>				0.0001 (3)
8/31/2016		<b>~0.001</b>	<0.001						
	~0.001		<0.001						
9/1/2016	<0.001				0.0001 (1)	-0.001			
9/13/2016					0.0001 (J)	<0.001	<0.001		
9/14/2016				-0.001			<0.001		0.0000 (1)
9/15/2016				<0.001				10.001	0.0002 (J)
9/19/2016					<b>-0.001</b>			<0.001	-0.001
11/1/2016				<0.001	<0.001			<0.001	<0.001
11/2/2016				<0.001		-0.001	-0.001		
11/4/2016		.0.004				<0.001	<0.001		
11/14/2016	-0.001	<0.001							
11/15/2016	<0.001		-0.001						
11/28/2016			<0.001				-0.001		
12/15/2016				<0.001			<0.001		
1/10/2017				<0.001	<0.001				<0.001
1/11/2017					<0.001	-0.001	-0.001	10.001	<0.001
1/16/2017						<0.001	<0.001	<0.001	
2/21/2017			-0.001					<0.001	
2/22/2017		-0.001	<0.001						
2/24/2017	.0.004	<0.001							
2/27/2017	<0.001								
3/1/2017					0.000171	-0.001			0.0002 ( 1)
3/2/2017					0.0001 (J)	<0.001	-0.001		0.0002 (J)
3/3/2017				0.0001 (1)			<0.001		
3/8/2017				0.0001 (J)				-0.001	-0.004
4/26/2017				<0.001	10.001	-0.004		<0.001	<0.001
4/27/2017					<0.001	<0.001			
4/28/2017		.0.004	0.004				<0.001		
5/8/2017		<0.001	<0.001						

					,				
	YGWC-49	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		<0.001	
3/28/2018				0.001		0.001	<0.001	0.001	<0.001
3/29/2018					<0.001		-0.001		-0.001
4/2/2018		<0.001			<b>~0.001</b>				
	~0.001	<0.001							
4/4/2018	<0.001		-0.001						
8/6/2018		.0.001	<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)		4.02 00 (0)	
3/1/2021		<0.001			35 (5)	0.00000 (0)		<0.001	
3/2/2021		30.001	<0.001	<0.001				-0.00 i	
			~U.UU I	~U.UU I	E SE OF (I)	<0.001	~0.001		<0.001
3/3/2021	<0.001				5.6E-05 (J)	<0.001	<0.001		<0.001
3/4/2021	<0.001	<0.001		<0.001	<0.001	<0.001		<0.001	<0.001
8/19/2021		<0.001	10.001	<0.001	<0.001	<0.001		<0.001	<0.001
8/20/2021			<0.001				-0.001		
8/27/2021							<0.001		

	YGWC-49	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								

		 ,		
	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	z0.001			
3/1/2017	<0.001			
3/2/2017				
3/3/2017				
3/8/2017 4/26/2017	<0.001			
4/26/2017	-0.001			
4/27/2017				
5/8/2017				
0.0.2017				

		Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
	YGWA-3I (bg)			
5/9/2017	(-9)			
5/26/2017				
6/27/2017				
6/28/2017	<0.001			
6/30/2017	<b>10.001</b>			
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			

	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	

	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)	0.0002 (0)				
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

	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)		0.00
6/11/2018						<0.03	0.0002 (0)	0.0014 (J)	
9/25/2018						<0.03	0.0036 (J)	0.0014 (J)	<0.03
10/16/2018	0.0052 (J)					-0.00	0.0000 (0)	0.0010 (0)	-0.00
3/5/2019	0.0032 (3)					<0.03		0.0031 (J)	<0.03
3/6/2019						<0.03	0.0033 (J)	0.0031 (3)	<b>\0.03</b>
4/2/2019						<0.03	0.0033 (3)		
						<0.03	0.0035 (1)	0.0028 / 1)	<b>-0.0</b> 2
4/3/2019							0.0035 (J)	0.0028 (J)	<0.03
9/24/2019						-0.03			<b>-0.0</b> 2
9/25/2019	-0.00					<0.03	0.0020 (1)	0.0000 (1)	<0.03
9/26/2019	<0.03						0.0032 (J)	0.0029 (J)	
2/11/2020						<0.03	0.0033 (J)	0.005 (J)	0.00
2/12/2020						0.000470	0.0000 (1)	0.0005 (1)	<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

	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							

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	

0.0059 (J)

2/7/2023

Constituent: Lithium (mg/L) Analysis Run 4/26/2023 11:07 AM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

2/8/2023 2/9/2023 YGWA-21I (bg)

	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 6/7/2016			0.013	0.0049 (J)	<0.05	<0.005			
7/26/2016			0.0123 (J)	0.0063 (J)	0.0027 (J)				
7/28/2016			0.0.20 (0)	0.0000 (0)	0.0027 (0)	0.0019 (J)			
8/30/2016						0.0010 (0)			0.0257 (J)
8/31/2016									0.0207 (0)
9/14/2016			0.0137 (J)	0.0058 (J)	0.0029 (J)				
9/20/2016			0.0107 (0)	0.0000 (0)	0.0020 (0)	0.0021 (J)			
11/2/2016			0.0136 (J)	0.0053 (J)		0.0021 (0)			
11/4/2016			0.0130 (3)	0.0033 (3)	<0.05				
11/8/2016					10.00	0.0024 (J)			
11/16/2016						0.0024 (0)			0.0221 (J)
1/12/2017				0.0054 (J)	0.0032 (J)				0.0221 (0)
1/13/2017			0.0121 (J)	0.0004 (0)	0.0002 (0)				
1/16/2017			0.0121 (0)			0.0022 (J)			
2/24/2017						0.0022 (0)			
2/27/2017									0.0208 (J)
3/6/2017			0.0143 (J)						0.0200 (3)
3/7/2017			0.0143 (3)	0.0056 (J)	0.0035 (J)				
3/9/2017				0.0030 (3)	0.0033 (3)	0.0025 (J)			
5/1/2017			0.0132 (J)	0.0031 (J)		0.0023 (3)			
5/2/2017			0.0132 (3)	0.0031 (3)	0.0031 (J)	0.0019 (J)			
5/10/2017					0.0031 (3)	0.0019 (3)			0.0316 (J)
6/27/2017				0.0018 (J)	0.0029 (J)				0.0310 (3)
6/29/2017			0.0145 (J)	0.0010 (0)	0.0020 (0)				
7/10/2017			0.0140 (0)			0.0018 (J)			
7/11/2017						0.00.0 (0)			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)			

	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)				

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	2.24			
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				

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

6/1/2016	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg) 0.015	YGWA-1I (bg) <0.15	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/2/2016				<0.03	0.013	<b>~</b> 0.13		<0.05	0.018
7/25/2016				10.00		0.002 (J)		<0.05	0.010
7/26/2016				<0.03	0.0135 (J)	0.002 (0)		-0.00	0.0221 (J)
8/30/2016		0.0061 (J)		-0.00	0.0100 (0)				0.0221 (0)
8/31/2016		0.0001 (0)	<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)						0.0000 (1)		
5/26/2017					0.000471	0.0004 (1)	0.0038 (J)		
6/27/2017					0.0094 (J)	0.0024 (J)	0.0000 (1)		0.0470 / I)
6/28/2017				<0.02			0.0026 (J)	<0.0E	0.0173 (J)
6/30/2017 7/11/2017		0.0051 (J)		<0.03				<0.05	
7/13/2017	0.0036 (J)	0.0031 (3)							
7/17/2017	0.0030 (3)		<0.25						
10/10/2017		0.0043 (J)	10.20						
10/11/2017	0.0036 (J)	0.0040 (0)							
10/16/2017	0.0000 (0)		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)			

6/7/2018	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg) 0.0017 (J)	YGWA-30I (bg)	YGWA-3D (bg) 0.02 (J)
6/8/2018				<0.03			(-)		(0)
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)

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## **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)

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	0.010 (1)			
9/14/2016	0.012 (J)			
9/15/2016				
9/19/2016	224543			
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				

		Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
	YGWA-3I (bg)			
6/7/2018	(-3)			
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	0.045 (1)			
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	0.017 (3)			
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)			

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

			Flailt Tate	55 Ciletit. Souther	T Company Data.	Fiant Tates AWA-ING	
	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			0.0007 (0)				<0.03
7/13/2017			0.007 (J)				0.00
9/22/2017			0.0067 (J)				
9/29/2017			0.0064 (J)				
10/6/2017			0.0064 (J)				
10/0/2017		0.0271 (J)	0.0003 (3)				
11/21/2017		0.0271 (J) 0.0255 (J)					
1/11/2018		0.0271 (J)					
2/20/2018		<0.25	0.0001 (1)				10.00
3/30/2018		0.007 (1)	0.0061 (J)				<0.03
4/3/2018		0.027 (J)					0.00
6/12/2018			0.0005 (1)				<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)	

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							<0.0002	<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						

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

	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				

	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				

		Plant Yate	s 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							

	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)
9/27/2021 2/8/2022	9E-05 (JB) <0.0002
*	` ,
2/8/2022	` ,
2/8/2022 2/10/2022	` ,
2/8/2022 2/10/2022 2/11/2022	` ,
2/8/2022 2/10/2022 2/11/2022 8/30/2022	` ,
2/8/2022 2/10/2022 2/11/2022 8/30/2022 8/31/2022	<0.0002
2/8/2022 2/10/2022 2/11/2022 8/30/2022 8/31/2022 9/1/2022	<0.0002

	YGWC-49	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)						
			1.30E-03 (3)		<b>~</b> 0.0000	<0.0002			
6/1/2016				-0.0000	<0.0002	<0.0002		-0.0000	-0.0000
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	0.0002								
3/2/2017					<0.0002	<0.0002			<0.0002
3/3/2017					10.0002	-0.0002	<0.0002		-0.000 <u>L</u>
3/8/2017				<0.0002			-0.0002		
4/26/2017				<0.0002				<0.0002	<0.0002
4/27/2017				~U.UUUZ	<0.0002	<0.0002		-U.UUUZ	~0.0UUZ
					~U.UUUZ	~U.UUUZ	<0.0002		
4/28/2017		<0.0002	<0.0002				<0.0002		
5/8/2017		<0.0002	<0.0002						

	YGWC-49	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			-0.000 <u>2</u>	<0.0002		<0.0002		<0.0002	
3/28/2018				10.000Z		10.0002	<0.0002	-0.000 <u>2</u>	<0.0002
					<0.0002		<0.000 <u>2</u>		<b>\0.0002</b>
3/29/2018		<0.0002			<0.0002				
4/2/2018	<0.0002	<0.0002							
4/4/2018	<0.0002		-0.0000						
8/6/2018		5.05.05.41	<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	
								•	

	YGWC-49	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								

	YGWA-3I (bg)
5/1/2007	<b>, U</b>
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	V0.0002
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	

	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		
	<0.0002	
2/10/2021	<0.0002	
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		

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

	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

6/6/2016	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg) <0.01	YGWA-18S (bg) <0.01	YGWA-20S (bg)
6/7/2016						<0.01	<0.01	<0.01	<0.01
7/27/2016						<0.01	<0.01	<0.01	<0.01
						<0.01	<0.01	<0.01	<0.01
7/28/2016						-0.01		<0.01	
9/16/2016 9/19/2016						<0.01	<0.01	<0.01	<0.01
							<0.01		<0.01
11/2/2016						10.01	-0.01	-0.01	<0.01
11/3/2016						<0.01	<0.01	<0.01	
1/11/2017						<0.01	<0.01	<0.01	10.01
1/13/2017								.0.04	<0.01
3/1/2017							<0.01	<0.01	
3/2/2017						<0.01			.0.04
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)						

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

		YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6	6/2/2016			<0.01	0.0035 (J)	<0.01				
6	6/7/2016						<0.01			
7	//26/2016			<0.01	0.0042 (J)	<0.01				
7	//28/2016						<0.01			
8	3/30/2016									0.0019 (J)
8	3/31/2016									
g	)/14/2016			<0.01	0.0041 (J)	<0.01				
g	9/20/2016						<0.01			
1	1/2/2016			<0.01	0.0039 (J)					
1	1/4/2016					<0.01				
1	1/8/2016						<0.01			
1	1/16/2016									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				(4)		<0.01			
	5/1/2017			<0.01	0.0045 (J)					
	5/2/2017			0.01	0.00 10 (0)	<0.01	<0.01			
	5/10/2017					-0.01	-0.01			0.0017 (J)
	5/27/2017				0.004 (J)	<0.01				0.0017 (0)
	5/29/2017			<0.01	0.004 (0)	10.01				
	7/10/2017			40.01			<0.01			
	7/10/2017						<b>~0.01</b>			0.0014 (J)
	0/11/2017	0.0094 (J)								0.0014 (3)
	0/11/2017	0.0094 (3)	<0.01					<0.01	<0.01	<0.01
		0.0001 (1)							<0.01	<b>V</b> 0.01
	1/20/2017 1/21/2017	0.0081 (J)	<0.01					<0.01	<0.01	
			-0.01						<0.01	
	/10/2018	0.007471	<0.01						z0.01	
	/11/2018	0.0074 (J)						<b>-0.01</b>	<0.01	
	/12/2018		<0.01					<0.01	<0.01	
	2/19/2018	-0.01	<0.01					<b>-0.01</b>	<0.01	
	2/20/2018	<0.01		<b>-0.01</b>	<0.01	z0.01		<0.01		
	3/29/2018 3/30/2018			<0.01	<0.01	<0.01	z0.01			
		0.000 (1)	-0.01				<0.01	-0.01	10.01	
	/3/2018	0.006 (J)	<0.01					<0.01	<0.01	.0.04
	/4/2018								.0.04	<0.01
	5/27/2018	0.005 (1)	.0.04					.0.04	<0.01	
	5/28/2018	0.005 (J)	<0.01					<0.01		
	3/7/2018	0.0045 (J)	<0.01					<0.01	<0.01	
	0/20/2018									<0.01
	0/24/2018	0.0035 (J)	<0.01					<0.01	<0.01	
	8/4/2019			<0.01	<0.01	<0.01				
	3/6/2019						<0.01			
	3/21/2019	0.0021 (J)	<0.01							
	3/22/2019							<0.01	<0.01	<0.01
	0/9/2019	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	3/24/2020		<0.01		0.0011 (J)	<0.01				

		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	5/2020	0.002 (J)		<0.01				<0.01	<0.01	<0.01
3/26	6/2020						<0.01			
9/22	2/2020			<0.01	0.00099 (J)	<0.01				
9/24	4/2020	0.0016 (J)	<0.01				<0.01			0.00091 (J)
9/25	5/2020							<0.01	<0.01	
2/8/	/2021				0.0011 (J)	<0.01				
2/9/	/2021			<0.01			<0.01	<0.01		
2/10	0/2021	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	5/2021						<0.01			0.00078 (J)
8/26	6/2021	0.0027 (J)		<0.01	0.001 (J)	<0.01		<0.01	<0.01	
9/3/	/2021		<0.01							
9/27	7/2021									
2/8/	/2022	0.0035 (J)	<0.01						<0.01	
2/10	0/2022				0.00096 (J)	<0.01	<0.01	<0.01		0.0008 (J)
2/1	1/2022			<0.01						
8/30	0/2022				0.00089 (J)	<0.01				
8/3	1/2022	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				

		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	0.0022 (0)			
9/20/2016				
11/2/2016				
11/4/2016				
11/8/2016				
11/16/2016	<0.01			
1/12/2017	40.01			
1/13/2017				
1/16/2017				
2/24/2017	<0.01			
2/27/2017	<b>10.01</b>			
3/6/2017 3/7/2017				
3/9/2017				
5/1/2017				
5/2/2017				
5/10/2017	<0.01			
6/27/2017	<0.01			
6/29/2017				
7/10/2017 7/11/2017	<0.01			
	<0.01			
10/11/2017	-0.01			
10/12/2017	<0.01			
11/20/2017				
11/21/2017 1/10/2018				
1/11/2018				
1/11/2018				
2/19/2018				
2/20/2018				
3/29/2018				
3/30/2018				
4/3/2018				
4/4/2018	<0.01			
6/27/2018	<b>10.01</b>			
6/28/2018				
8/7/2018				
9/20/2018	<0.01			
	<0.01			
9/24/2018 3/4/2019				
3/6/2019	0.0012 ( 1)			
8/21/2019	0.0012 (J)			
8/22/2019	0.0012 ( 1)			
10/9/2019	0.0012 (J)			
2/12/2020 3/24/2020				
J12412UZU				

	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	

6/1/2016	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg) 0.014 (J)	YGWA-1I (bg) 0.012 (J)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/2/2016				<0.01	0.014 (3)	0.012 (3)		<0.01	0.0093 (J)
7/25/2016 7/26/2016				<0.01	0.0132	0.0098 (J)		<0.01	0.0113
8/30/2016		<0.01		40.01	0.0132				0.0113
8/31/2016		40.01	<0.01						
9/1/2016	<0.01		<b>10.01</b>						
9/13/2016	<b>~0.01</b>				0.0127	0.01 (J)			
9/14/2016					0.0127	0.01 (3)	0.0039 (J)		
9/15/2016				<0.01			0.0039 (3)		0.0112
9/19/2016				<b>~0.01</b>				<0.01	0.0112
11/1/2016					0.0092 (J)			<0.01	0.0099 (J)
11/2/2016				<0.01	0.0092 (3)			<b>~0.01</b>	0.0099 (3)
				<b>~0.01</b>		0.01	0.0077 (J)		
11/4/2016		<0.01				0.01	0.0077 (3)		
11/14/2016	-0.01	<0.01							
11/15/2016 11/28/2016	<0.01		<0.01						
			<0.01				0.0066 (1)		
12/15/2016 1/10/2017				<0.01			0.0066 (J)		
1/10/2017				<0.01	0.0093 (J)				0.0093 (J)
1/16/2017					0.0093 (3)	0.0096 (1)	0.0056 (1)	<0.01	0.0093 (0)
2/21/2017						0.0086 (J)	0.0056 (J)	<0.01	
2/22/2017			<0.01					<b>\0.01</b>	
2/24/2017		<0.01	<0.01						
2/27/2017	0.0007 (J)	<b>~0.01</b>							
3/1/2017	0.0007 (3)								
3/2/2017					0.0099 (J)	0.01			0.0103
3/3/2017					0.0000 (0)	0.01	0.0049 (J)		0.0100
3/8/2017				<0.01			0.00 10 (0)		
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)			

					,				
6/7/2018	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg) 0.004 (J)	YGWA-30I (bg)	YGWA-3D (bg) 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					(,,	(1)	(-)	<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	(5)	(1)	0.0041 (J)		
4/1/2019							(3)	<0.01	0.012
8/19/2019			<0.01						
8/20/2019		<0.01							
9/24/2019		0.01			0.0072 (J)	0.0074 (J)	0.0054 (J)		
9/25/2019				<0.01	0.0072 (0)	0.0074 (0)	0.0004 (0)	<0.01	0.012
10/8/2019		<0.01		0.01				0.01	0.012
2/10/2020		-0.01			0.0087 (J)	0.0062 (J)			
2/11/2020					0.0007 (3)	0.0002 (3)	0.0057 (J)		
2/12/2020				<0.01			0.0007 (0)	<0.01	0.013
3/17/2020		<0.01		40.01				40.01	0.013
3/18/2020		40.01		<0.01		0.0056 (J)			
3/19/2020				<b>~0.01</b>	0.0088 (J)	0.0030 (3)	0.0046 (J)	<0.01	0.013
3/25/2020	<0.01				0.0000 (3)		0.0040 (0)	40.01	0.013
8/26/2020	<b>~0.01</b>		<0.01						
8/27/2020		<0.01	<b>~0.01</b>						
9/22/2020		<0.01							
9/23/2020		40.01			0.008 (J)	0.0059 (J)	0.0071 (J)		0.012
9/24/2020	<0.01				0.008 (3)	0.0039 (3)	0.0071 (3)	<0.01	0.012
9/25/2020	<b>~0.01</b>			<0.01				<b>\0.01</b>	
2/9/2021	<0.01			40.01					
2/10/2021	<b>40.01</b>			<0.01			0.0041 (J)		0.014
2/11/2021				<b>~0.01</b>			0.0041 (3)	<0.01	0.014
2/11/2021					0.008 (J)	0.0056 (J)		<b>~0.01</b>	
3/1/2021		<0.01			0.000 (3)	0.0000 (0)		<0.01	
3/2/2021		<b>~0.01</b>		<0.01				<b>\0.01</b>	
3/3/2021				<b>~0.01</b>	0.0088 (J)	0.0049 (J)	0.0074 (J)		0.013
3/4/2021	<0.01				0.0000 (3)	0.0043 (3)	0.0074 (3)		0.013
8/19/2021	<b>40.01</b>	<0.01		<0.01	0.0083 (J)	0.005 (J)		<0.01	0.013
8/20/2021		<b>~0.01</b>	<0.01	<b>~0.01</b>	0.0083 (3)	0.003 (3)		<b>~0.01</b>	0.013
8/27/2021			<b>~0.01</b>				0.0048 (J)		
9/1/2021	<0.01						0.0040 (0)		
2/8/2022	<0.01	<0.01	<0.01						
2/9/2022	<b>\0.01</b>	<0.01	<0.01		0.0093 (J)	0.0055 (J)	0.0057 (J)		0.013
2/10/2022				<0.01	3.0033 (3)	J.0005 (J)	3.0037 (3)		0.010
2/11/2022				<b>~0.01</b>				<0.01	
8/30/2022			<0.01		0.0094 (J)		0.0068 (J)	~U.U I	
8/31/2022	<0.01	<0.01	<b>~</b> 0.01	<0.01	0.0034 (0)	0.0055 (J)	0.0000 (0)	<0.01	0.011
2/7/2023	~0.01	~U.U1	<0.01	-0.01	<0.01	<0.01	0.0061 (J)	-0.01	V.V11
2/8/2023		<0.01	<b>~</b> 0.01	<0.01	-U.U1	<b>~U.U1</b>	0.0001 (0)	<0.01	0.012
2/9/2023	<0.01	<b>~</b> 0.01		<b>~</b> 0.01				~U.U I	0.012
21312023	<b>\U.U1</b>								

		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	0.0033 (3)			
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				

			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	0/1/2018	0.0037 (J)				
10	0/2/2018					
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					
	/24/2019					
	/25/2019	0.0087 (J)				
	0/8/2019					
	/10/2020					
	/11/2020	0.003 (J)				
	/12/2020					
	/17/2020					
	/18/2020	0.0040 (1)				
	/19/2020	0.0043 (J)				
	/25/2020					
	/26/2020 /27/2020					
	/22/2020					
	/23/2020	0.01				
	24/2020	0.01				
	25/2020					
	9/2021					
	10/2021	0.0038 (J)				
	11/2021	. ,				
	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					
	/8/2022					
	9/2022	0.0087 (J)				
	10/2022					
	11/2022					
	/30/2022					
	/31/2022	0.0068 (J)				
	7/2023					
	/8/2023	0.0065 (J)				
2/	/9/2023					

					. ,		
	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				224
3/3/2021	.0.04	0.000470	0.04				<0.01
3/4/2021	<0.01	0.0024 (J)	<0.01				
8/25/2021	-0.01	0.0011 (J)					-0.01
9/1/2021 9/3/2021	<0.01		<b>-0.01</b>	0.0018 (J)			<0.01
	-0.01	<0.01	<0.01	0.0018 (3)		<0.01	<0.01
2/10/2022 2/11/2022	<0.01	<0.01	<0.01	0.0027 ( 1)	0.011	<0.01	<0.01
8/31/2022	<0.01		<0.01	0.0037 (J)	0.011		
9/1/2022	50.0 I	<0.01	<0.01	0.0059 (J)	0.0084 (J)	<0.01	
2/8/2023		<0.01	-0.01	0.0039 (J) 0.0024 (J)	0.0084 (3) 0.005 (J)	-0.01	
2/9/2023	<0.01	5.01	<0.01	5.502 · (0)	3.300 (0)	<0.01	
2/10/2023	0.01		0.01			0.01	<0.01
_, 10/2020							0.01

		YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/20	16							6.17	5.71	
6/7/20	16						5.62			5.77
7/27/20	016						5.59	6.14	5.46	5.79
7/28/20	016									
9/16/20	016						5.58			
9/19/20	016							6.04	5.59	5.73
11/2/20										5.67
11/3/20							5.59	5.97	5.39	
1/11/20							5.59	6.05	5.48	
1/13/20										5.79
3/1/20								5.94	5.41	
3/2/20							5.54			
3/6/20							0.01			5.63
4/26/20								5.99	5.4	5.66
5/2/20							5.47	3.33	5.4	5.00
6/28/20							5.47	6	5.36	
6/29/20							5.56	0	5.30	5.85
10/3/20							5.50			5.65
							F F7		F 20	F 00
10/4/20							5.57	0.14	5.32	5.83
10/5/20								6.11		
3/28/20							5.59	6.1	5.34	
3/29/20										5.93
6/5/20										
6/6/20										5.86
6/7/20								5.98		
6/11/20							5.58		5.28	
9/25/20	018						5.59	5.81	4.86	5.84
3/5/20	19						5.48		5.26	6.07
3/6/20	19							5.99		
4/2/20	19						5.74			
4/3/20	19							6.29	5.47	5.71
9/24/20	019									
9/25/20	019						5.49			5.86
9/26/20	019							6.04	5.2	
1/3/202	20	5.78								
1/15/20	020		6.25			5.64				
1/16/20	020			6.67	6.47					
2/11/20	020			6.62		5.37	5.58	6.07	5.3	
2/12/20	020									6
3/24/20	020						5.57	5.98	5.33	5.86
3/25/20	020	6.13								
9/23/20	020		5.66		5.89		5.58 (D)	6.01 (D)	5.29 (D)	
9/24/20	020	6				5.38				5.8 (D)
2/9/202	21	6.42	5.81		6.96	5.34		6.12	5.43	5.86
3/3/202		6.54	5.67		6.8		5.52	5.89	5.31	5.89
3/4/202						5.32				
8/25/20					6.79					
8/26/20					-	5.35			4.4	
8/27/20							5.27	5.4	•	5.57
9/1/202		5.97	6.67							
9/3/202		5.0.	J.J.	5.74						
2/9/202				5.74			5.53	5.98	5.28	5.91
2131202							0.00	0.00	0.20	0.01

	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						

		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	1/2/2016	
11	1/3/2016	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	0/3/2017	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	
	16/2020	
	11/2020	
	12/2020	7.13
-	24/2020	6.35
	25/2020	
	23/2020	
	24/2020	6.7 (D)
_	9/2021	6.95
	3/2021	
	4/2021	6.8
	25/2021	
	26/2021	
	27/2021	0.05
	1/2021	6.65
	3/2021	6.94
2/	9/2022	6.84

	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	

		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			6.36	7.67	5.75				
6/7/2016	6						5.57			
7/26/20	16			6.22	7.66	5.72				
7/28/20	16						5.6			
8/30/20	16									5.64
8/31/20	16									
9/14/20	16			6.23	7.6	5.74				
9/20/20	16						5.53			
11/2/20	16			6.08	7.35					
11/4/20	16					5.61				
11/8/20	16						5.53			
11/16/20	016									6.21
1/12/20	17				7.49	5.71				
1/13/20	17			6.19						
1/16/20	17						5.59			
2/24/20	17									
2/27/20	17									6.09
3/6/2017	7			6.2						
3/7/2017	7				7.43	5.66				
3/9/2017	7						5.56			
5/1/2017	7			6.21	7.22					
5/2/2017	7					5.65	5.61			
5/10/20										5.79
6/27/20					7.32	5.7				
6/29/20				6.21						
7/10/20							5.68			
7/11/20										5.45
10/3/20					7.48	5.79				
10/5/20				6.16						
10/11/20		6.4					5.46			
10/12/20			5.43					4.85	4.94	5.48
11/20/20		6.33	5.1					4.87		
11/21/20									4.69	
1/10/20			4.97							
1/11/20		6.29							4.73	
1/12/20								4.78		
2/19/20			5.6						4.96	
2/20/20		7.22						5.1		
3/29/20				6.09	7.02	5.63				
3/30/20							5.73			
4/3/2018		6.87	5.84					4.76	5.31	
4/4/2018		0.07	0.0 .						0.0 .	5.93
6/6/2018					7.43					
6/7/2018				6.12	7.1.0	5.63				
6/12/20				0.12		0.00	5.63			
6/27/20									4.78	
6/28/20		6.18	5.24					4.75		
8/7/2018		6.08	5.18					4.72	4.77	
9/20/20		3.00	5.10					7.74		5.63
9/24/20		5.81	5.14					4.67	4.78	0.00
9/26/20		5.01	J. 14	5.84	7.13	5.63		4.07	7.70	
9/27/20				0.04	7.10	0.00	5.47			
5/2//20							J.77			

	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				

		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	1.21			
9/20/2016				
11/2/2016				
11/4/2016				
11/8/2016	0.70			
11/16/2016	6.79			
1/12/2017				
1/13/2017				
1/16/2017	0.00			
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	6.41			
4/4/2018	6.41			
6/6/2018				
6/7/2018				
6/12/2018				
6/27/2018				
6/28/2018				
8/7/2018	E 60			
9/20/2018	5.69			
9/24/2018				
9/26/2018				
9/27/2018				

	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	

	YGWC-49	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 8/12/2013			7.56						
			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	0.10							
3/1/2017	0.00								
3/2/2017					7.23	6.28			7.68
3/3/2017					7.25	0.20	7.22		7.00
				E 44			7.22		
3/8/2017				5.41				F FC	7.45
4/26/2017				5.02	0.00	0.00		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								

	YGWC-49	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					0.00	
9/19/2018		5.48	0.01						
9/20/2018	5.67	3.40							
10/1/2018	3.07			5.39	6.8	5.9	7.07		7.39
				5.59	0.6	5.9	7.07	F 20	7.39
10/2/2018			0.51					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			<del></del>					
5/2021	55								

2/10/2021	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg) 5.35	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg) 7.29	YGWA-30I (bg)	YGWA-3D (bg) 7.81
2/11/2021				5.55			7.29	E 72	7.01
								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								

		Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
	YGWA-3I (bg)			
8/27/2008	. (-3/			
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	7.72			
7/25/2016	7.74			
7/26/2016	7.74			
8/30/2016				
9/1/2016				
9/13/2016				
9/14/2016	7.65			
9/15/2016	7.00			
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				

		Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
	YGWA-3I (bg)			
7/17/2017	. (3)			
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	7.74			
4/2/2018				
4/4/2018				
6/5/2018				
6/6/2018				
6/7/2018				
6/8/2018	7.64			
6/11/2018	7.04			
8/6/2018				
9/19/2018				
9/20/2018				
10/1/2018	7.47			
10/1/2018	7.47			
2/25/2019				
2/26/2019				
2/27/2019	7.54			
3/27/2019	7.54			
3/28/2019				
3/29/2019				
4/1/2019	7.74			
6/12/2019	7.74			
8/19/2019				
8/20/2019				
9/24/2019				
9/25/2019	7.47			
9/26/2019	7.47			
10/8/2019				
2/10/2020				
2/11/2020	7.09			
2/12/2020	7.00			
3/17/2020				
3/18/2020				
3/19/2020	7.31			
3/25/2020	7.01			
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				

	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	

	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		

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# **Time Series**

		PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB
2	2/9/2023	5.5		5.67			5.14	
2	2/10/2023							5.67

	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	<0.005	-0.005
9/25/2018	0.0010 (1)					<0.005	<0.005	<0.005	<0.005
10/16/2018 3/5/2019	0.0019 (J)					<0.005		<0.005	<0.005
3/6/2019						<0.005	<0.005	<0.005	<0.005
4/2/2019						<0.005	10.003		
4/3/2019						-0.003	<0.005	<0.005	<0.005
9/24/2019							-0.000	10.000	-0.000
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				

	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						

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

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)

<0.005

2/7/2023

2/8/2023 2/9/2023

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

6/2/2016	YGWA-39	(bg) YGWA-	40 (bg) YGWA-4I (bg	y) YGWA-5D (bg) <0.005	YGWA-5I (bg) <0.005	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/7/2016			40.003	10.003	10.000	0.037			
7/26/20			0.0009 (J)	<0.005	0.0009 (J)	0.037			
7/28/20			0.0009 (3)	<b>~0.003</b>	0.0009 (3)	0.0385			
						0.0363			0.0711
8/30/20									0.0711
8/31/20			10.005	-0.005	-0.005				
9/14/20			<0.005	<0.005	<0.005	0.0404			
9/20/20						0.0464			
11/2/20			<0.005	<0.005					
11/4/20					<0.005				
11/8/20						0.0521			
11/16/20									0.0313
1/12/20				<0.005	<0.005				
1/13/20			<0.005						
1/16/20						0.0469			
2/24/20									
2/27/20									0.0316
3/6/2017			<0.005						
3/7/2017	7			<0.005	<0.005				
3/9/2017	7					0.0437			
5/1/2017	7		<0.005	<0.005					
5/2/2017	7				<0.005	0.0395			
5/10/20	17								0.053
6/27/20	17			<0.005	<0.005				
6/29/20	17		<0.005						
7/10/20	17					0.0386			
7/11/20	17								0.0697
10/11/20	017 <0.005								
10/12/20	017	<0.005					0.265	0.0191	0.0594
11/20/20	017 <0.005	0.0042 (	(J)				0.246		
11/21/20	017							0.0687	
1/10/20	18	0.0043 (	(J)						
1/11/20	18 <0.005							0.069	
1/12/20	18						0.249		
2/19/20	18	<0.005						0.071	
2/20/20	18 <0.005						0.253		
3/29/20	18		<0.005	<0.005	<0.005				
3/30/20	18					0.028			
4/3/2018	3 <0.005	<0.005					0.23	0.067	
4/4/2018	3								0.055
6/6/2018	3			<0.005					
6/7/2018			<0.005		<0.005				
6/12/20	18					0.026			
6/27/20								0.066	
6/28/20		0.0032 (	(J)				0.23		
8/7/2018		0.0031 (					0.2	0.061	
9/20/20		,							0.041
9/24/20		0.0026 (	(J)				0.2	0.061	
9/26/20			<0.005	<0.005	<0.005				
9/27/20						0.023			
3/4/2019			<0.005	<0.005	<0.005				
3/6/2019					<del>-</del>	0.019			
						-			

	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				

		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	0.000			
9/20/2016				
11/2/2016				
11/4/2016				
11/8/2016				
11/16/2016	<0.005			
1/12/2017	-0.000			
1/13/2017				
1/16/2017				
2/24/2017	<0.005			
2/27/2017	-0.000			
3/6/2017				
3/7/2017				
3/9/2017				
5/1/2017				
5/2/2017				
5/10/2017	<0.005			
6/27/2017	-0.000			
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				

	YGWC-43	
4/3/2019		
4/4/2019		
8/21/2019	9 <0.005	
8/22/2019	9	
9/24/2019	9	
9/25/2019	9	
9/27/2019	9	
10/9/2019	9 <0.005	
2/12/2020	0	
3/24/2020	0	
3/25/2020	0 <0.005	
3/26/2020	0	
9/22/2020	0	
9/24/2020	0	
9/25/2020	0 <0.005	
2/8/2021		
2/9/2021	<0.005	
2/10/2021	1	
3/2/2021		
3/3/2021		
3/4/2021	<0.005	
8/25/2021	1	
8/26/2021	1	
9/3/2021		
9/27/2021	1 <0.005	
2/8/2022	<0.005	
2/10/2022	2	
2/11/2022	2	
8/30/2022	2	
8/31/2022	2	
9/1/2022	<0.005	
2/7/2023		
2/8/2023	<0.005	
2/9/2023		

	YGWC-49	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	0.0000 (0)				<0.005	<0.005			
9/14/2016							<0.005		
9/15/2016				0.0014 (J)			0.000		<0.005
9/19/2016				0.0011(0)				<0.005	0.000
11/1/2016					<0.005			<0.005	<0.005
11/2/2016				<0.005	0.000			0.000	0.000
11/4/2016				0.000		<0.005	<0.005		
11/14/2016		<0.005				10.000	-0.000		
11/15/2016	0.0056 (J)	-0.000							
11/28/2016	0.0000 (0)		<0.005						
12/15/2016			0.000				<0.005		
1/10/2017				0.0012 (J)			-0.000		
1/11/2017				0.0012 (0)	<0.005				<0.005
1/16/2017					-0.000	<0.005	<0.005	<0.005	-0.000
2/21/2017						10.000	-0.000	<0.005	
2/22/2017			<0.005					10.003	
2/24/2017		0.0011 (J)	10.003						
2/27/2017	0.0098 (J)	0.0011 (0)							
3/1/2017	0.0030 (3)								
3/2/2017					<0.005	<0.005			<0.005
3/3/2017					-0.000	10.000	<0.005		-0.000
3/8/2017				<0.005			3.300		
4/26/2017				<0.005				<0.005	<0.005
4/27/2017				5.555	<0.005	<0.005		0.000	
4/28/2017					0.000	0.000	<0.005		
5/8/2017		<0.005	<0.005				5.555		
5.5.2017		0.000	0.000						

	YGWC-49	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	<0.005
3/17/2020			<0.005	10.005		10.005			
3/18/2020				<0.005	10.005	<0.005	-0.005	10.005	10.005
3/19/2020	0.0005 (1)				<0.005		<0.005	<0.005	<0.005
3/25/2020	0.0085 (J)		0.005						
8/26/2020		-0.005	<0.005						
8/27/2020		<0.005	10.005						
9/22/2020			<0.005		.0.005	.0.005	.0.005		.0.005
9/23/2020	0.000173				<0.005	<0.005	<0.005	<0.00E	<0.005
9/24/2020	0.0091 (J)			<0.00E				<0.005	
9/25/2020	0.0070 ( !)			<0.005					
2/9/2021	0.0079 (J)			<0.00E			-0.00E		<0.00E
2/10/2021 2/11/2021				<0.005			<0.005	<0.005	<0.005
2/11/2021					<0.005	<0.005		~U.UUU	
3/1/2021					~0.005	~0.000		<0.005	
3/1/2021			<0.005	<0.005				~0.005	
JIZIZUZ I			~0.005	<0.005					

	YGWC-49	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								

	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				

		Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
	YGWA-3I (bg)			
5/9/2017	(59)			
5/26/2017				
6/27/2017				
6/28/2017	<0.005			
6/30/2017	10.000			
7/11/2017				
7/13/2017				
7/17/2017				
10/10/2017				
10/11/2017				
10/16/2017				
2/19/2018				
3/27/2018	.0.005			
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	.0.005			
2/27/2019	<0.005			
3/28/2019				
3/29/2019	.0.005			
4/1/2019	<0.005			
6/12/2019				
8/19/2019				
8/20/2019				
9/24/2019	-0.00F			
9/25/2019	<0.005			
9/26/2019				
10/8/2019				
2/10/2020 2/11/2020	<0.005			
2/11/2020	<0.005			
3/17/2020				
3/17/2020				
3/19/2020	<0.005			
3/25/2020	<0.003			
8/26/2020				
8/27/2020				
9/22/2020				
9/23/2020	<0.005			
9/24/2020	<0.003			
9/25/2020				
2/9/2021				
2/9/2021	<0.005			
2/10/2021	-0.000			
2/11/2021				
3/1/2021				
3/1/2021				
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	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	

					,		·	
	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)				0.000	
6/29/2018		0.26	0.002 (0)					
8/6/2018		0.21						
9/24/2018		0.33						
9/26/2018		0.00	0.0037 (J)				<0.005	
10/16/2018	<0.005		0.0007 (0)				0.000	
3/5/2019	-0.000						<0.005	
3/6/2019			0.0033 (J)				0.000	
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)				3.000	
3/26/2020	0.000		0.002 (0)				<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	(1)		<0.005	<0.005				
2/10/2022	0.003 (J)	0.2	2.300	2.200		0.029	<0.005	
2/11/2022			<0.005	<0.005	0.0025 (J)	020	·····	
8/31/2022	0.0033 (J)		0.000	3.000	0020 (0)			
9/1/2022		0.17	<0.005	<0.005	0.0041 (J)	0.026		
2/8/2023		0.16	0.000	<0.005	0.0047 (3)	020		
2/9/2023	0.0041 (J)	0.10	0.0027 (J)	3.000	3.0007	0.028		
_,0,2020	3.3041 (0)		J.0027 (U)			0.020		

Constituent: Selenium (mg/L) Analysis Run 4/26/2023 11:08 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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

	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						

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

	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						0,			980
8/31/2016									000
9/14/2016			7.5	19	1.8				
9/20/2016			7.5	13	1.0	68			
11/2/2016			8.2	20		00			
11/4/2016			0.2	20	2				
11/8/2016					2	79			
						79			940
11/16/2016				10	1.0				940
1/12/2017			0.1	19	1.9				
1/13/2017			8.1			70			
1/16/2017						72			
2/24/2017									040
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

2/0/	0/0010	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
	8/2019 /2019			8.5	7	2.1			258	
				6.5	/	2.1	27.0			
	/2019 4/2019				5.5	2.4	27.9			
	5/2019 5/2019			8.5	5.5	2.4				
	7/2019			6.5			30.3			
	9/2019	15	27.9				30.3	708	263	725
	4/2020	15	25.2		5.9	2.1		706	203	725
	5/2020	14.3	25.2	8.8	5.9	2.1		483	214	642
	6/2020	14.5		0.0			36.5	403	214	042
	2/2020			8.2	5.5	2.1	30.5			
	4/2020 4/2020	11.7	22.9	6.2	5.5	2.1	52.5			579
	5/2020	11.7	22.9				52.5	414	175	579
	/2021				2.6	2.3		414	173	
	/2021			7.8	2.0	2.5				
	/2021	12	21.5	7.0			61.7 (M1)	356	117	537
	5/2021	12	21.5				68	330	117	500
	6/2021	19.2		8.5	6	2.4	00	328	117	300
	/2021	13.2	21.3	0.5	0	2.4		320	117	
	7/2021		21.5							
	/2022	14.6	17.9						109	
	0/2022				4.9	2.4	78.7	290	.00	485
	1/2022			7.7			70.7	200		.00
	0/2022				5.7	2.4				
	1/2022	10.9	17.9	8						
	/2022						79	282	117	502
	/2023	9.7			5.2		-			
	/2023		17.5				78	251	119	494
	/2023		-	8.9		2.9				
						-				

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	34			
9/20/2016				
11/2/2016				
11/4/2016				
11/8/2016	240			
11/16/2016 1/12/2017	240			
1/13/2017				
1/16/2017	00			
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	100			
6/29/2017				
7/10/2017				
7/10/2017	110			
10/3/2017	110			
10/5/2017				
10/11/2017				
10/11/2017	120			
11/20/2017	120			
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				

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

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0/1/0010	YGWC-49	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				0.4	5.4	3.7		1.2	0.7
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				0.0	3.7				4.5
1/16/2017					0.7	7.9	11	<1.5	
2/21/2017						7.5		1.4	
2/22/2017			43					1.4	
2/24/2017		120	43						
	0.4	120							
2/27/2017	84								
3/1/2017					4.0	7.4			
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			

6/7/2018	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg) 8.8	YGWA-30I (bg)	YGWA-3D (bg) 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							(4)	
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								

		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	· <del>-</del>			
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				

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

	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				3:23 (4)	
7/7/2017							0.37 (J)	
7/13/2017			140				3.37 (0)	
9/22/2017			160					
9/29/2017			160					
10/5/2017			100				<1	
10/6/2017			160					
10/11/2017			150					
10/11/2017		650	130					
11/21/2017		700						
1/11/2018		590						
2/20/2018		677						
4/3/2018		615					0.25 (1)	
6/12/2018			444				0.35 (J)	
6/13/2018		604	144					
6/29/2018		634						
8/6/2018		623						
9/24/2018		674	100				0.00 (1)	
9/26/2018	24.0		160				0.28 (J)	
10/16/2018	34.2		440				0.00 (1)	
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)	

	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						

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

	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				

	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				

		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				
7/10/2017	<0.001			
10/11/2017	-0.001			
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	<0.001			
9/20/2018 9/24/2018	<0.001			
3/4/2019				
3/6/2019				
4/3/2019				
4/4/2019				
8/21/2019	<0.001			
8/22/2019				
9/24/2019				

	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	

	YGWC-49	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		-0.001	-0.001			
6/1/2016				10.001	<0.001	<0.001		-0.001	-0.004
6/2/2016				<0.001		.0.004		<0.001	<0.001
7/25/2016				.0.004	.0.004	<0.001		<0.001	0.0004 (1)
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								

5/26/	/2017	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg) <0.001	YGWA-30I (bg)	YGWA-3D (bg)
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)						
	0/2017		<0.001							
10/1	1/2017	<0.001								
	6/2017			7E-05 (J)						
2/19/	/2018			<0.001						
	/2018				<0.001		<0.001		<0.001	
	/2018							<0.001		<0.001
3/29/	/2018					<0.001				
4/2/2			<0.001							
4/4/2		<0.001								
8/6/2				<0.001						
	/2018		<0.001							
9/20/	/2018	<0.001								
	/2019			<0.001						
	/2019				<0.001				<0.001	
	/2019					<0.001	<0.001	<0.001		<0.001
	/2019			<0.001						
	/2019			5.5E-05 (J)						
	/2019		5.8E-05 (J)	.,						
	/2019	<0.001	.,							
	/2019		8.4E-05 (J)	<0.001						
	/2020					<0.001	5.5E-05 (J)			
	/2020							<0.001		
	/2020				8.9E-05 (J)				<0.001	<0.001
	/2020		<0.001	<0.001	. ,					
	/2020				<0.001		<0.001			
3/19/	/2020					<0.001		<0.001	<0.001	<0.001
	/2020	<0.001								
	/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					
2/9/2	2021	<0.001								
2/10/	/2021				<0.001			<0.001		<0.001
2/11/	/2021								<0.001	
2/12/	/2021					<0.001	<0.001			
3/2/2	2021			<0.001						
8/19/	/2021		<0.001							
	/2021			<0.001						
2/8/2		<0.001	<0.001	<0.001						
2/9/2						<0.001	<0.001	<0.001		<0.001
	/2022				<0.001					
2/11/	/2022								<0.001	
8/30/	/2022			<0.001		<0.001		<0.001		

	YGWC-49	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								

		YGWA-3I (bg)		
5/1/200	07	( 6,		
9/11/20				
3/20/20				
8/27/20				
3/3/200				
11/18/2				
3/3/201				
9/8/20				
3/10/20				
9/8/201				
3/5/201				
9/10/20				
2/6/201				
8/12/20				
2/5/201				
8/5/201				
2/4/201				
2/16/20				
6/1/201		<0.001		
6/2/201				
7/25/20		<0.001		
7/26/20				
8/30/20				
8/31/20				
9/1/201				
9/13/20	016			
9/14/20	016	<0.001		
9/15/20	016			
9/19/20	016			
11/1/20	016	<0.001		
11/2/20	016			
11/4/20	016			
11/14/2	2016			
11/15/2	2016			
11/28/2	2016			
12/15/2	2016			
1/10/20	017			
1/11/20		<0.001		
1/16/20				
2/21/20				
2/22/20				
2/24/20				
2/27/20				
3/1/201		<0.001		
3/2/201				
3/3/201				
3/8/201				
4/26/20		<0.001		
4/27/20				
4/28/20				
5/8/201				
5/9/201	17			

		Tidili Tales
	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		

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

	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

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (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	200					72			
4/3/2019						-	89	63	57
9/24/2019									
9/25/2019						81			75
9/26/2019							126	72	70
3/24/2020						71	91	59	76
3/25/2020	139								
9/23/2020	100	62		329		99	103	81	
9/24/2020	106	02		020	788		100		69
3/3/2021	121	40		245	,,,,	57	95	37	53
3/4/2021				2.0	604	·		0,	
8/25/2021				332	004				
8/26/2021				002	570			31	
8/27/2021					370	93	112	31	67
9/1/2021	219	60				33	112		07
2/9/2022	219	00				81	103	60	72
2/10/2022	281	48	606	346	499	01	103	00	72
8/30/2022	201	40	000	340	499	01	100	E2	
8/30/2022	336					81	100	52	62
9/1/2022	550	52	632	358	662				UZ
		JZ.	UJZ	550	002	79	96	55	80
2/7/2023		100		402	660	78	96	55	89
2/8/2023	247	190	727	402	660				
2/9/2023	347		727						

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

		YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
	/2016			96	160	66				
6/7/	/2016						130			
7/26	6/2016			92	177	78				
7/28	8/2016						119			
8/30	0/2016									1650
8/31	1/2016									
9/14	4/2016			102	187	73				
9/20	0/2016						132			
11/2	2/2016			115	181					
11/4	4/2016					75				
11/8	8/2016						146			
11/1	16/2016									1420
1/12	2/2017				202	86				
1/13	3/2017			67						
1/16	6/2017						194			
2/24	4/2017									
2/27	7/2017									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	0/2017									1630
6/27	7/2017				189	73				
6/29	9/2017			79						
7/10	0/2017						123			
7/11	1/2017									1800
10/3	3/2017				170	89				
10/5	5/2017			95						
10/1	11/2017	68					100			
	12/2017		74					1360	636	1600
	20/2017		179					1390		
	21/2017								706	
	0/2018		140							
	1/2018	153							701	
	2/2018							1400		
	9/2018		119						630	
	0/2018	87						1300		
	/2018		106					1390	660	
	/2018									1520
	/2018				151					
	/2018			90		142				
	2/2018						115			
	7/2018								575	
	8/2018	88	112					1310	•	
	/2018		103					1340	574	
	0/2018	- =						<del></del>		1240
	4/2018	82	107					1400	588	
	6/2018	<u>-</u>		116	144	86		00	330	
	7/2018						105			
	6/2019		90				.00			
	7/2019	75	50					1190		1100
3121	,,2013	, ,						1150		1100

3/28/2019	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41 372	YGWC-42
4/3/2019			111	142	83			372	
4/4/2019			111	142	65	85			
9/24/2019				129	79	65			
9/25/2019			117	129	79				
9/23/2019			117			96			
10/9/2019	119	98				30	1100	440	1170
3/24/2020	119	84		139	68		1100	440	1170
3/25/2020	158	04	146	133	00		883	428	1200
3/26/2020	130		140			110	003	420	1200
9/22/2020			83	104	75	110			
9/24/2020	170	77	00	104	73	129			1060
9/25/2020	170	,,				125	664	307	1000
3/2/2021				52	67		004	007	
3/3/2021			80	<b>02</b>	07				
3/4/2021	168	57				96	600	224	501
8/25/2021		0.				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				

		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	207			
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				

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

	YGWC-49	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	200							
11/28/2016	211		102						
			102				101		
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	102		185						
10/3/2017			100		119	58	153		
10/4/2017					113	30	100	31	141
				40				31	141
10/5/2017		175		40					
10/10/2017	177	175							
10/11/2017	177		010						
10/16/2017			218						
2/19/2018		100	173						
4/2/2018		192							
4/4/2018	174								
6/5/2018					127				
6/6/2018						96			

6/7/2018	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg) 146	YGWA-30I (bg)	YGWA-3D (bg)
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								

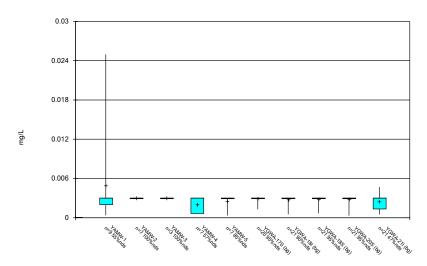
	YGWA-3I (bg)
6/1/2016	150
6/2/2016	
7/25/2016	135
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	127
9/15/2016	
9/19/2016	
11/1/2016	75
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	148
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
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	100
6/28/2017	126
6/30/2017	
7/11/2017 7/13/2017	
7/13/2017	
10/3/2017	
10/3/2017	147
10/4/2017	147
10/3/2017	
10/10/2017	
10/11/2017	
2/19/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	
3/3/2010	

	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	445	
2/9/2022	145	
2/10/2022		
2/11/2022		
8/30/2022	127	
8/31/2022	137	
2/7/2023 2/8/2023	145	
2/8/2023	IHJ	
2/9/2023		

	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

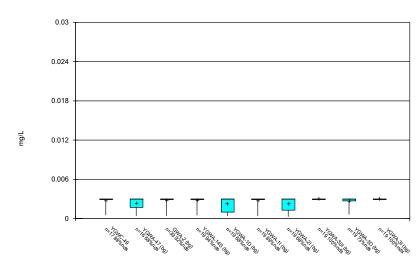


Constituent: Antimony Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

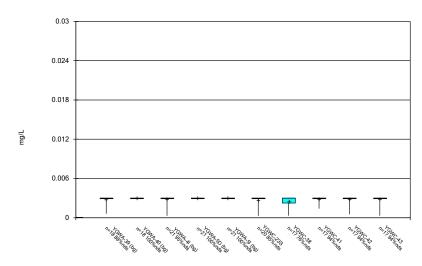
Box & Whiskers Plot



Constituent: Antimony Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

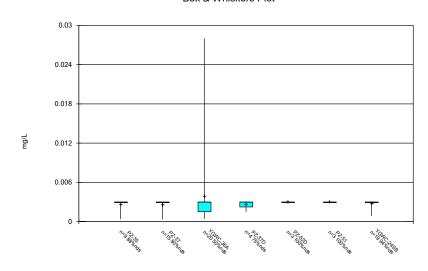


Constituent: Antimony Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

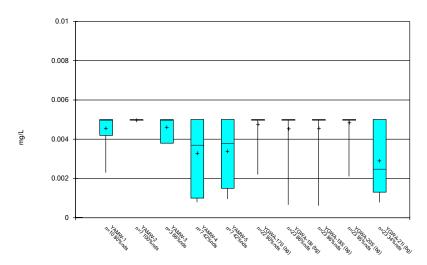
Box & Whiskers Plot



Constituent: Antimony Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

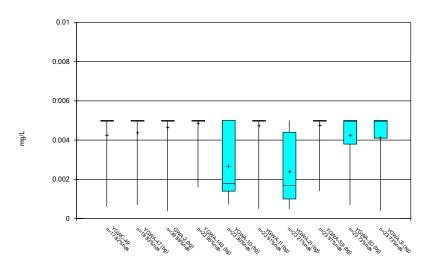


Constituent: Arsenic Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

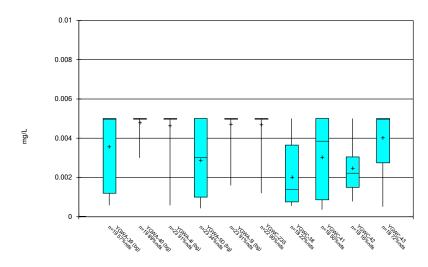
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

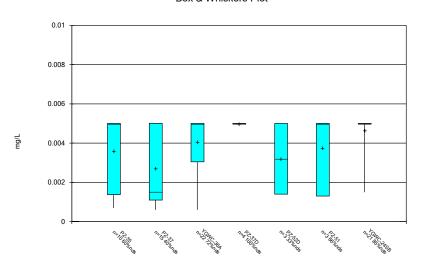
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 4/26/2023 11:08 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

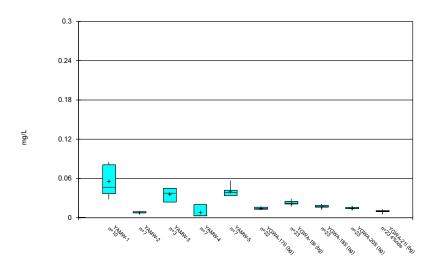
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

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

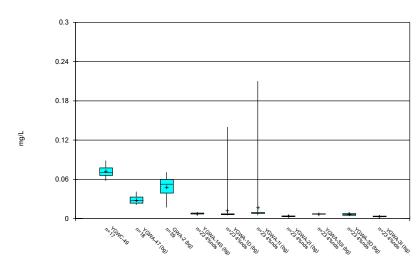


Constituent: Barium Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

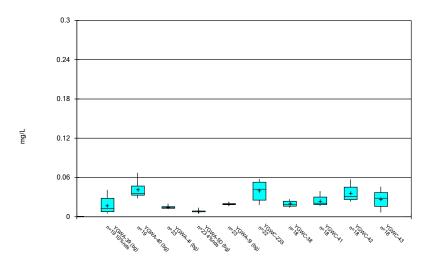
Box & Whiskers Plot



Constituent: Barium Analysis Run 4/26/2023 11:08 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

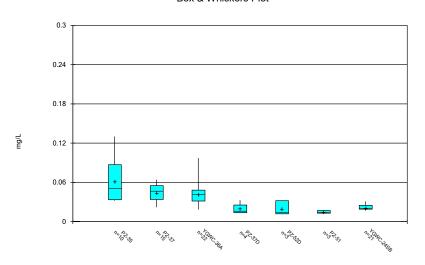
Box & Whiskers Plot



Constituent: Barium Analysis Run 4/26/2023 11:08 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

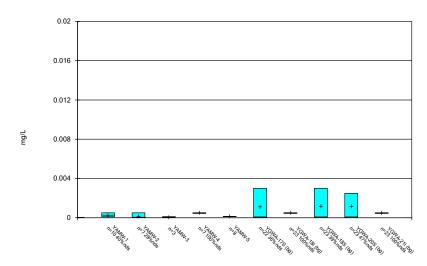
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Barium Analysis Run 4/26/2023 11:08 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

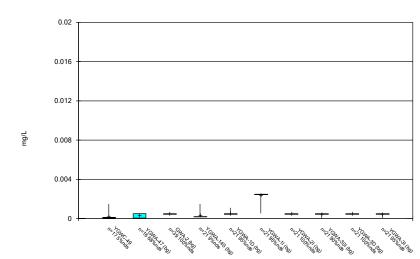




Constituent: Beryllium Analysis Run 4/26/2023 11:08 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

#### Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

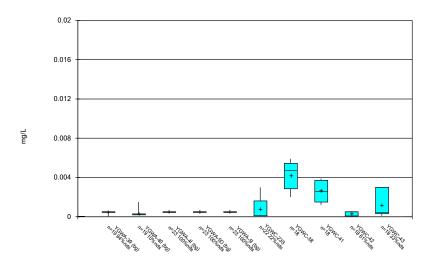
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

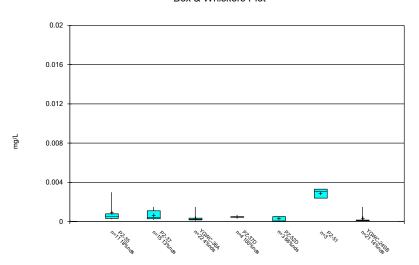
Box & Whiskers Plot



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

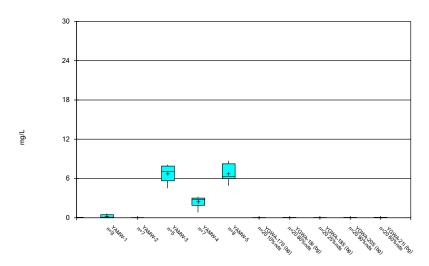
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

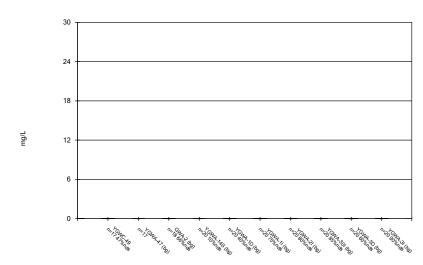


Constituent: Boron Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.37 Groundwater Stats Consulting. UG

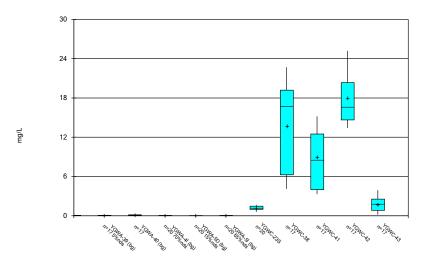
Box & Whiskers Plot



Constituent: Boron Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

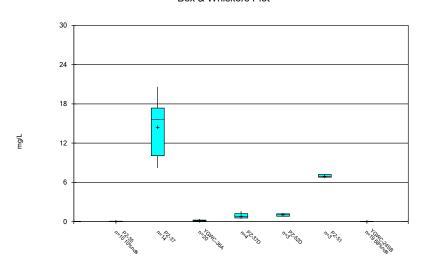
Box & Whiskers Plot



Constituent: Boron Analysis Run 4/26/2023 11:09 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

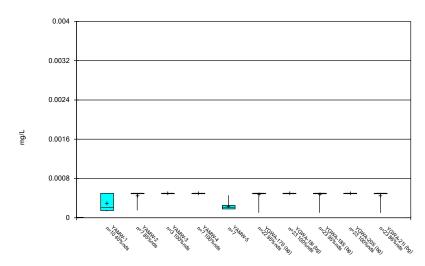
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

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

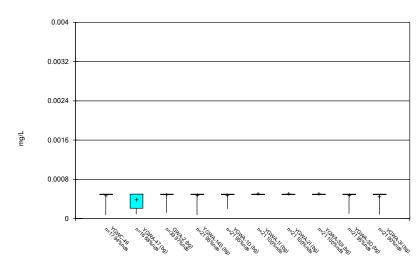


Constituent: Cadmium Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

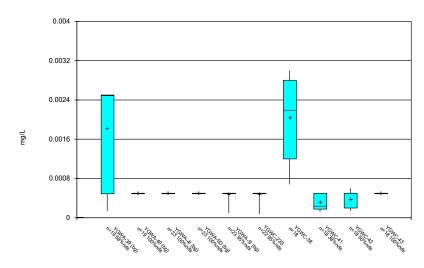
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

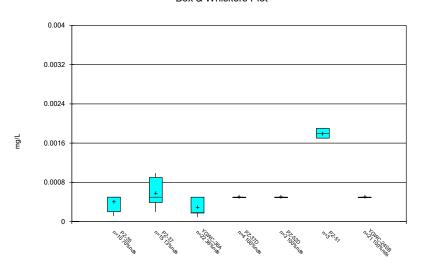
Box & Whiskers Plot



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

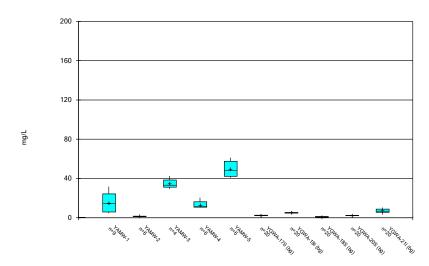
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

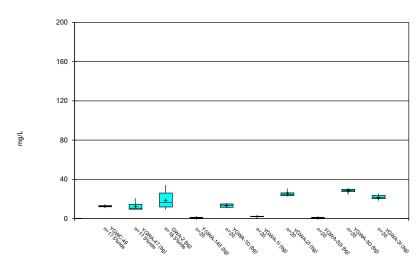


Constituent: Calcium Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

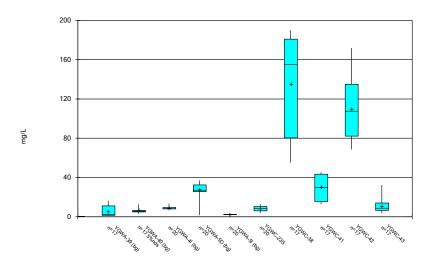
Box & Whiskers Plot



Constituent: Calcium Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

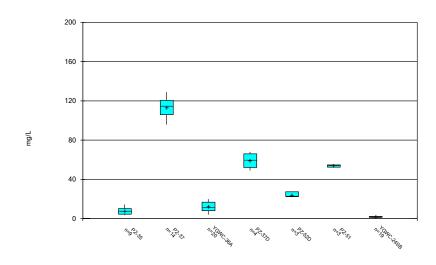
Box & Whiskers Plot



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

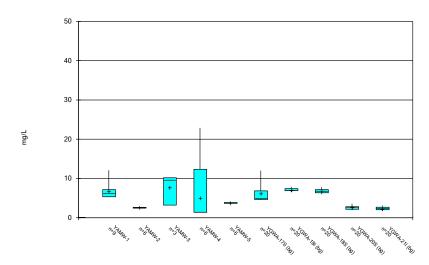
Box & Whiskers Plot



Constituent: Calcium Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

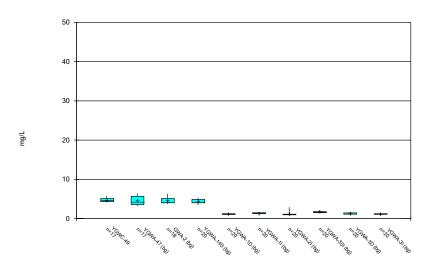


Constituent: Chloride Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

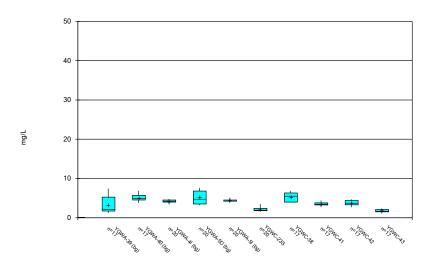
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

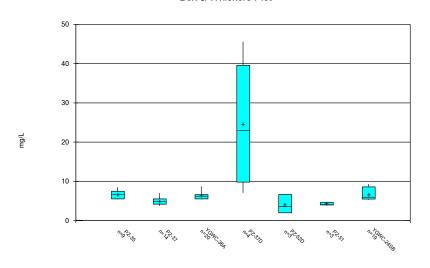
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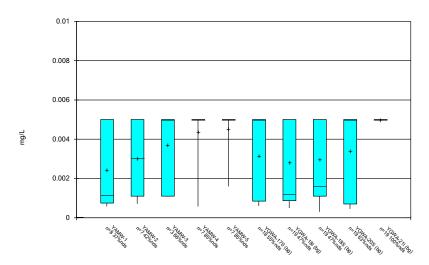
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Box & Whiskers Plot



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Box & Whiskers Plot

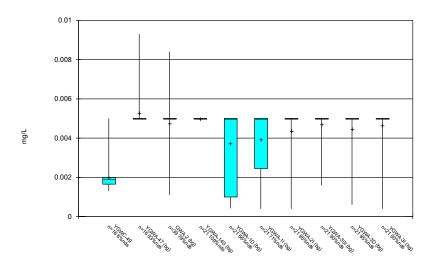


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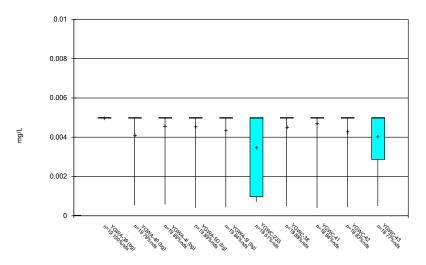
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Box & Whiskers Plot



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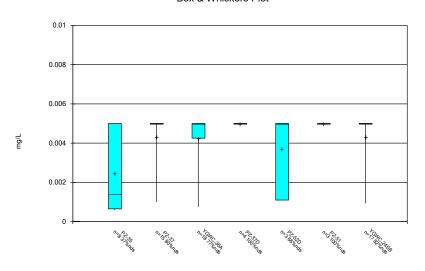
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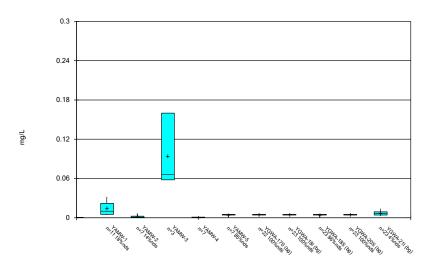
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Box & Whiskers Plot



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Box & Whiskers Plot

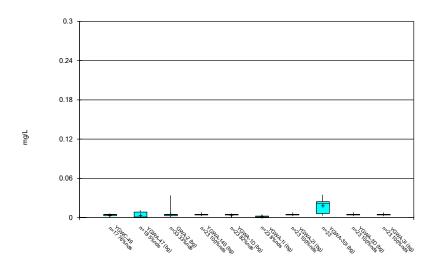


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 $Sanitas^{\text{\tiny{TM}}} \ v.9.6.37 \ Groundwater \ Stats \ Consulting. \ UG$ 

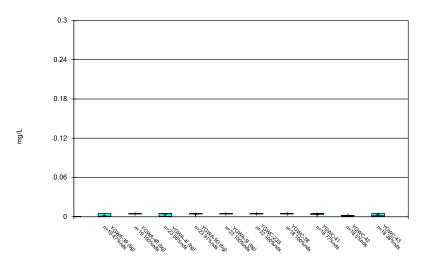
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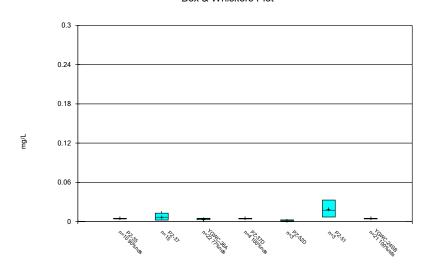
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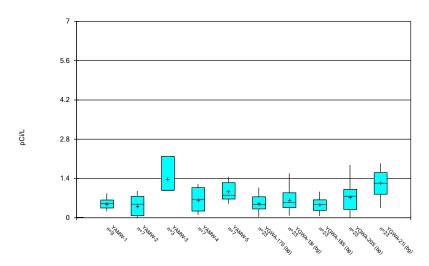
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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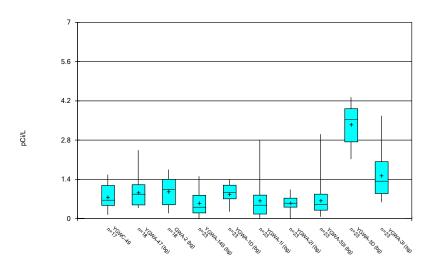
Box & Whiskers Plot



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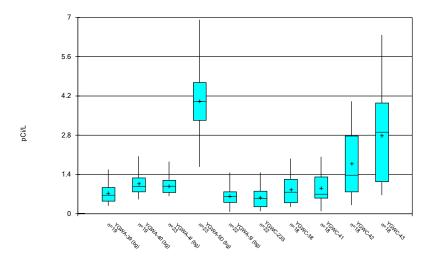
Sanitas<sup>™</sup> v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 4/26/2023 11:09 AM
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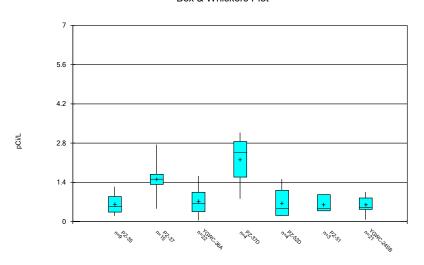
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 4/26/2023 11:09 AM
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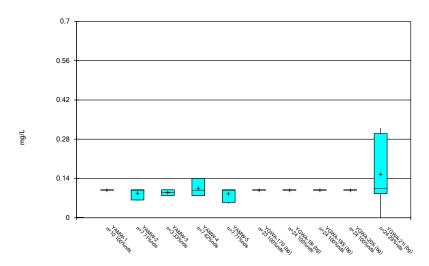
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 4/26/2023 11:09 AM
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Box & Whiskers Plot

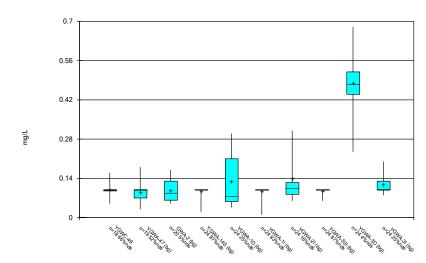


Constituent: Fluoride Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.37 Groundwater Stats Consulting. UG

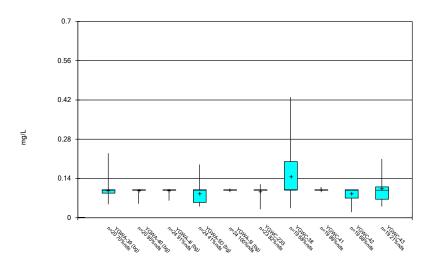
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

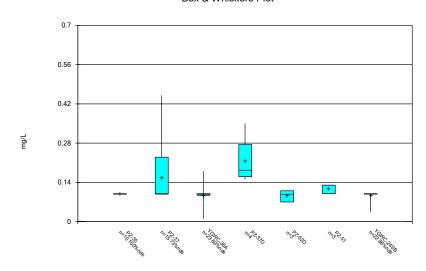


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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

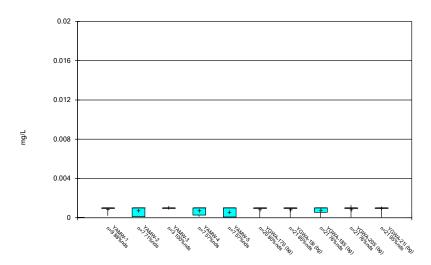
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

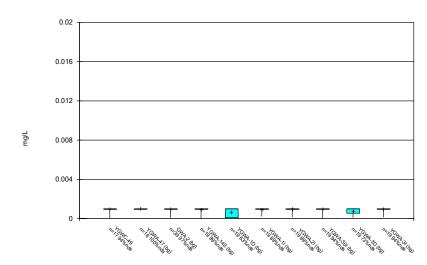


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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

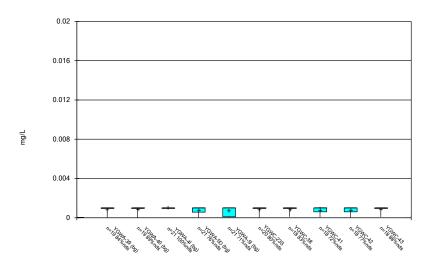
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

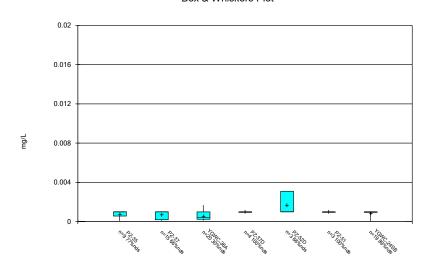
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

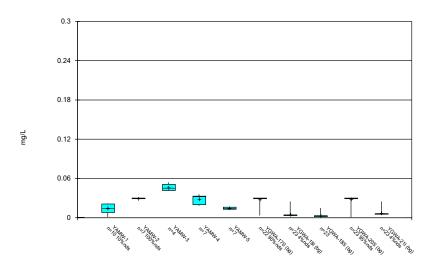
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

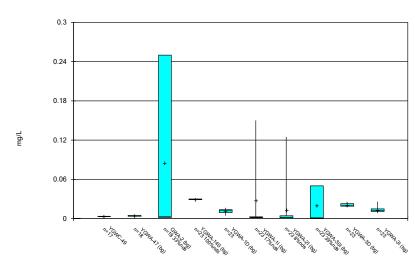


Constituent: Lithium Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas<sup>™</sup> v.9.6.37 Groundwater Stats Consulting. UG

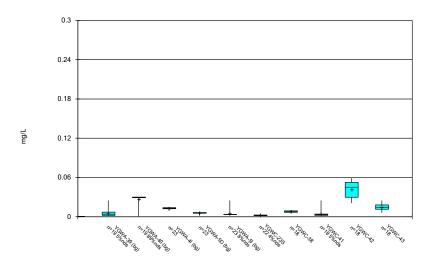
Box & Whiskers Plot



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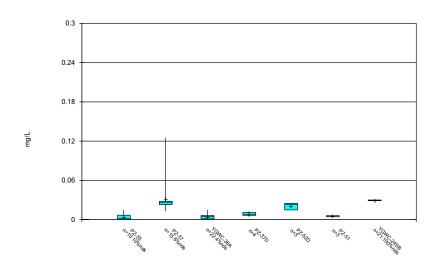
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

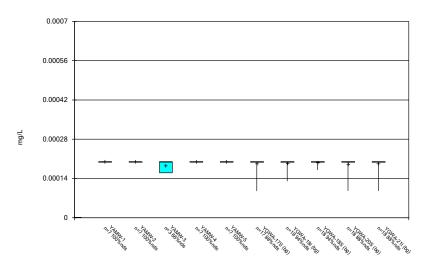
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Lithium Analysis Run 4/26/2023 11:09 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

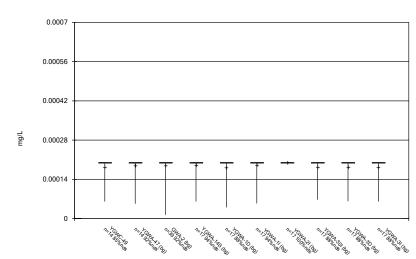


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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

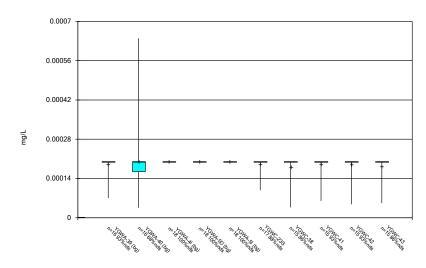
Box & Whiskers Plot



Constituent: Mercury Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

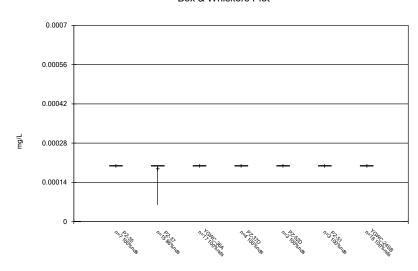


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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

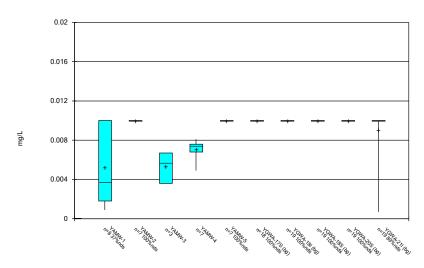
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

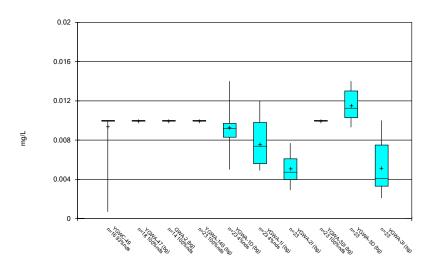
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 4/26/2023 11:09 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

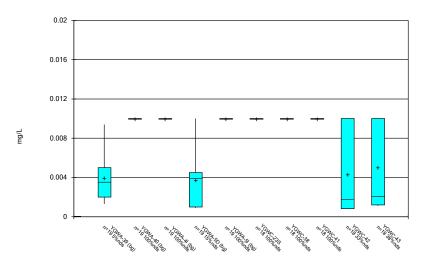
Sanitas<sup>™</sup> v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 4/26/2023 11:09 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

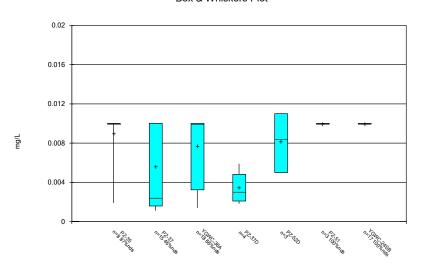
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 4/26/2023 11:09 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

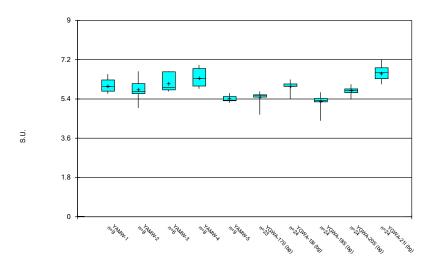
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 4/26/2023 11:09 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

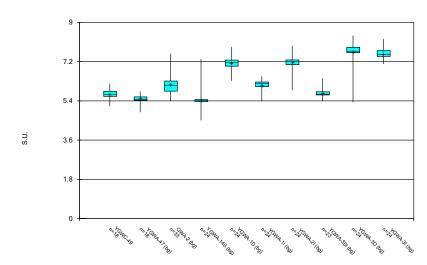


Constituent: pH Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

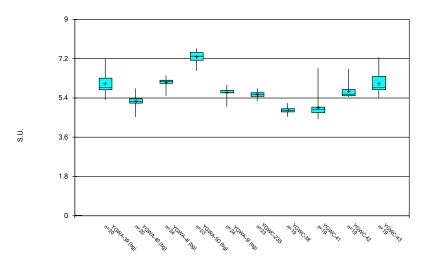
Box & Whiskers Plot



Constituent: pH Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

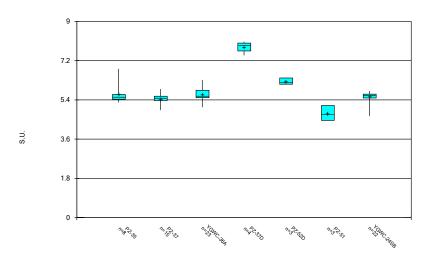


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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

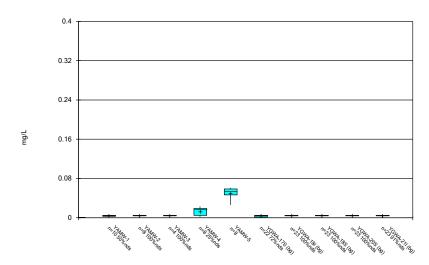
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: pH Analysis Run 4/26/2023 11:09 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

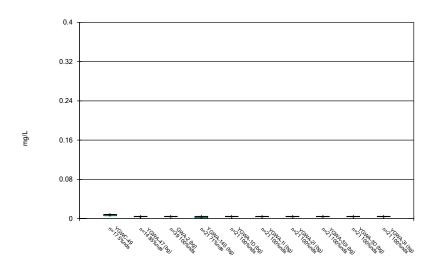


Constituent: Selenium Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

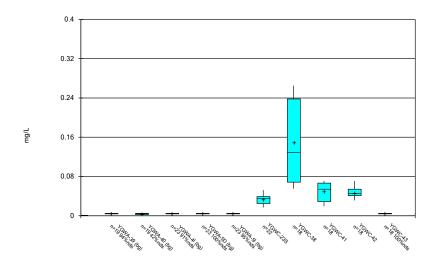
Box & Whiskers Plot



Constituent: Selenium Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

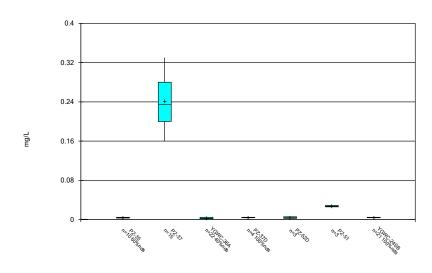
Box & Whiskers Plot



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

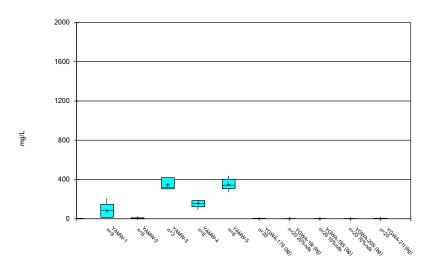
Box & Whiskers Plot



Constituent: Selenium Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

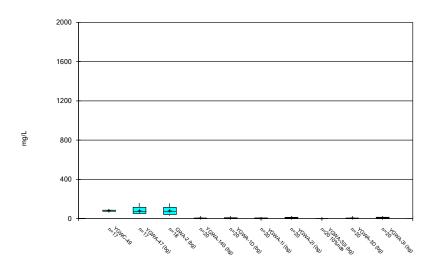




Constituent: Sulfate Analysis Run 4/26/2023 11:09 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

#### Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

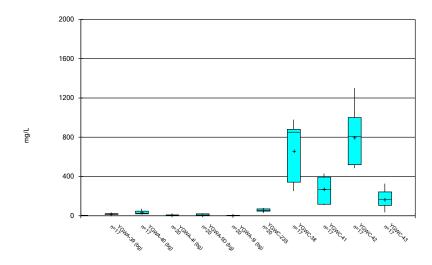
Box & Whiskers Plot



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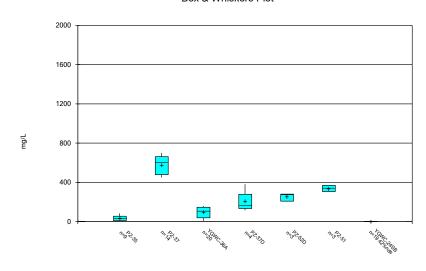
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

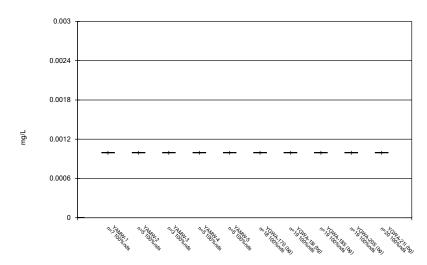
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Box & Whiskers Plot



Constituent: Sulfate Analysis Run 4/26/2023 11:09 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

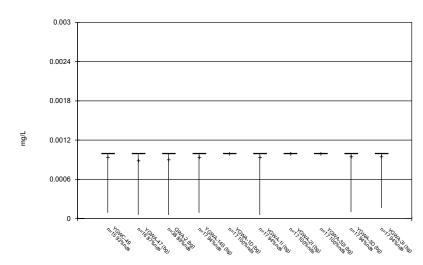


Constituent: Thallium Analysis Run 4/26/2023 11:09 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

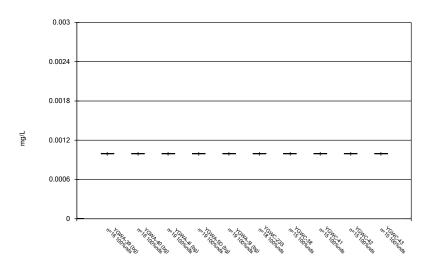
Box & Whiskers Plot



Constituent: Thallium Analysis Run 4/26/2023 11:10 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

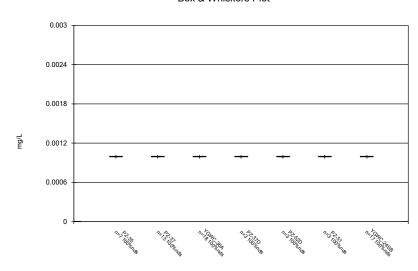


Constituent: Thallium Analysis Run 4/26/2023 11:10 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

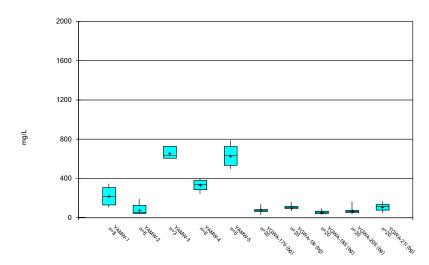
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

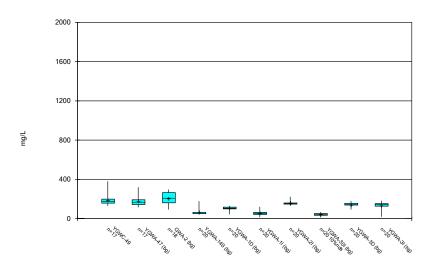
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:10 AM Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

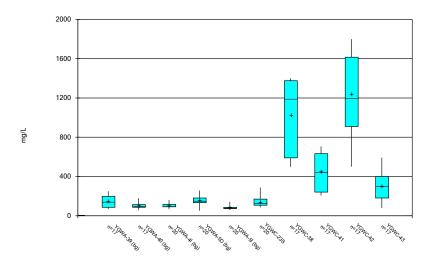
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

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

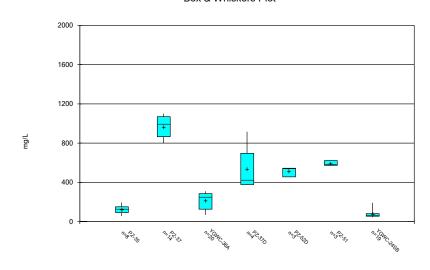
Box & Whiskers Plot



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



# FIGURE C.

### **Outlier Summary**

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/26/2023, 11:11 AM

	0	10
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

	Р	lant Yates	Client: Sou	thern Compan	y Data: P	lant Yates A	AMA-R6 Pr	rinted 4/26/202	3, 11:21	AM			
Constituent	Well	Upper Lim.	Lower Lim.	<u>Date</u>	Observ.	Sig. Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	<u>Alpha</u>	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

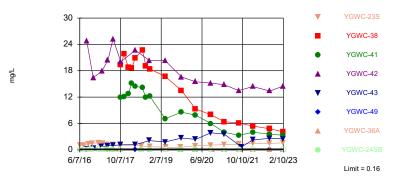
## Appendix III Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/26/2023, 11:21 AM

Constituent	<u>Well</u>	Upper Lin	n. Lower Lim	ı. Date	Observ.	Sia.	Ba N	<u>l Bg Mean</u>	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	YGWC-23S	0.16	n/a	2/8/2023	1.6	Yes			n/a	49.86	n/a	n/a		NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-38	0.16	n/a	2/8/2023	4.1	Yes			n/a	49.86	n/a	n/a		NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-41	0.16	n/a	2/8/2023	3.3	Yes			n/a	49.86	n/a	n/a		NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-42	0.16	n/a	2/8/2023	14.5	Yes			n/a	49.86	n/a	n/a		NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-43	0.16	n/a	2/8/2023	2.5	Yes			n/a	49.86	n/a	n/a		NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-49	0.16	n/a	2/9/2023	0.014J	No			n/a	49.86	n/a	n/a		NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-36A	0.16	n/a	2/9/2023	0.028J	No			n/a	49.86	n/a	n/a		NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-24SB	0.16	n/a	2/10/2023	0.04ND	No			n/a	49.86	n/a	n/a		NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-23S	37	n/a	2/8/2023	10.9	No			n/a	0.813	n/a	n/a		NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-38	37	n/a	2/8/2023	55.3	Yes			n/a	0.813	n/a	n/a		NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-41	37	n/a	2/8/2023	14.4	No			n/a	0.813	n/a	n/a		NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-42	37	n/a	2/8/2023	74.6	Yes			n/a	0.813	n/a	n/a		NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-43	37	n/a	2/8/2023	11	No			n/a	0.813	n/a	n/a		NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-49	37	n/a	2/9/2023	11.8		369		n/a	0.813	n/a	n/a		NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-36A	37	n/a	2/9/2023	9.2		369		n/a	0.813	n/a	n/a		NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-24SB	37	n/a	2/10/2023	2.4		369		n/a	0.813	n/a	n/a		NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-23S	12	n/a	2/8/2023	2		369		n/a	0.013	n/a	n/a		NP Inter (normality) 1 of 2
	YGWC-38	12	n/a	2/8/2023	3.9		369		n/a	0		n/a		NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-41	12	n/a	2/8/2023	4		369		n/a	0	n/a n/a	n/a		NP Inter (normality) 1 of 2
Chloride (mg/L) Chloride (mg/L)	YGWC-42	12		2/8/2023	3.4		369			0		n/a		NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-42	12	n/a n/a	2/8/2023	2.4		369		n/a n/a	0	n/a n/a	n/a		NP Inter (normality) 1 of 2
										0				, ,,
Chloride (mg/L)	YGWC-49	12	n/a	2/9/2023	4.4 5.9		369		n/a	0	n/a	n/a		NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-36A	12	n/a	2/9/2023			369		n/a		n/a	n/a		NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-24SB	12	n/a	2/10/2023	9.1		369		n/a	0	n/a	n/a		NP Inter (normality) 1 of 2
Fluoride (mg/L)	YGWC-23S	0.68	n/a	2/8/2023	0.1ND		438		n/a	64.16	n/a	n/a		NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-38	0.68	n/a	2/8/2023	0.1ND		438		n/a	64.16	n/a	n/a		NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-41	0.68	n/a	2/8/2023	0.1ND		438		n/a	64.16	n/a	n/a		NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-42	0.68	n/a	2/8/2023	0.08J		438		n/a	64.16	n/a	n/a		NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-43	0.68	n/a	2/8/2023	0.11 0.1ND		438		n/a	64.16	n/a	n/a		NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-49	0.68	n/a	2/9/2023	0.1ND		438		n/a	64.16	n/a	n/a		NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-36A	0.68	n/a	2/9/2023	0.1ND	No			n/a	64.16	n/a	n/a		NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-24SB	0.68	n/a	2/10/2023	0.051J		438		n/a	64.16	n/a	n/a		NP Inter (NDs) 1 of 2
pH (S.U.)	YGWC-23S YGWC-38	8.39	4.4	2/8/2023 2/8/2023	5.33		448		n/a n/a	0	n/a	n/a		NP Inter (normality) 1 of 2
pH (S.U.)		8.39	4.4		5.16		448				n/a	n/a		NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-41	8.39	4.4	2/8/2023	4.69		448		n/a	0	n/a	n/a		NP Inter (normality) 1 of 2  NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-42 YGWC-43	8.39	4.4	2/8/2023 2/8/2023	5.48		448		n/a	0	n/a	n/a		, ,,,
pH (S.U.)		8.39	4.4		5.4	No			n/a		n/a	n/a		NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-49	8.39	4.4	2/9/2023	5.61	No			n/a	0	n/a	n/a		NP Inter (normality) 1 of 2  NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-36A YGWC-24SB	8.39 8.39	4.4	2/9/2023 2/10/2023	5.67 5.67	No No			n/a	0	n/a	n/a		NP Inter (normality) 1 of 2  NP Inter (normality) 1 of 2
pH (S.U.)			4.4						n/a		n/a	n/a		, ,,
Sulfate (mg/L)	YGWC-23S	160	n/a	2/8/2023	78	No			n/a	5.962	n/a	n/a		NP Inter (normality) 1 of 2
Sulfate (mg/L) Sulfate (mg/L)	YGWC-38 YGWC-41	<b>160</b> 160	n/a	<b>2/8/2023</b> 2/8/2023	<b>251</b> 119	Yes No			n/a	5.962	n/a	n/a		NP Inter (normality) 1 of 2  NP Inter (normality) 1 of 2
, ,			n/a						n/a	5.962	n/a	n/a		, ,,
Sulfate (mg/L)	YGWC-42	160	n/a	2/8/2023	494	Yes			n/a	5.962	n/a	n/a		NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-43	160	n/a	2/8/2023	164	Yes			n/a	5.962	n/a	n/a		NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-49 YGWC-36A	160	n/a	2/9/2023	71.1	No			n/a	5.962	n/a	n/a		NP Inter (normality) 1 of 2  NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-36A YGWC-24SB	160	n/a	2/9/2023	50.8		369		n/a	5.962	n/a	n/a		, ,,,
Sulfate (mg/L)		160	n/a	2/10/2023	0.5J		369		n/a	5.962	n/a	n/a		NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-23S	225	n/a	2/8/2023	158 <b>579</b>			10.11	2.582	0.542	None	sqrt(x)		Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-38	225	n/a	2/8/2023	579 257			10.11	2.582	0.542	None	sqrt(x)		Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-41	225	n/a	2/8/2023	257			10.11	2.582	0.542	None	sqrt(x)		Param Inter 1 of 2
Total Dissolved Solids (mg/L)  Total Dissolved Solids (mg/L)	YGWC-42 YGWC-43	225 225	n/a n/a	2/8/2023 2/8/2023	853 333			10.11 10.11	2.582 2.582	0.542 0.542	None None	sqrt(x)		Param Inter 1 of 2 Param Inter 1 of 2
Total Dissolved Solids (mg/L)  Total Dissolved Solids (mg/L)	YGWC-43	225	n/a n/a	2/9/2023	145			10.11	2.582	0.542	None	sqrt(x)		Param Inter 1 of 2 Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-36A	225		2/9/2023	116			10.11	2.582	0.542	None			Param Inter 1 of 2
Total Dissolved Solids (mg/L)  Total Dissolved Solids (mg/L)	YGWC-36A YGWC-24SB	225	n/a n/a	2/10/2023	66			10.11	2.582	0.542	None	sqrt(x)		Param Inter 1 of 2
Total Dissolved Collds (Hig/L)	10110-2400	223	11/0	211012023	00	140	508	10.11	2.002	0.542	140116	sqrt(x)	0.0003400	Tarantinto 1012

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

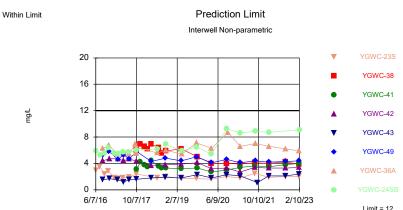


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 369 background values. 49.86% NDs. Annual perconstituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 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

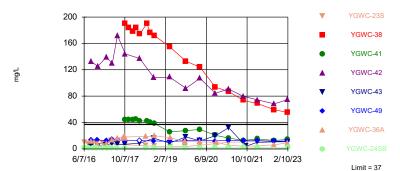
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG



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.

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

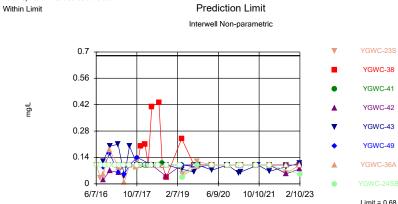


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 369 background values. 0.813% NDs. Annual perconstituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 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

 ${\it Sanitas^{\rm TM}}~v.9.6.37~{\it Groundwater}~{\it Stats}~{\it Consulting}.~{\it UG}~{\it Hollow}~{\it symbols}~{\it indicate}~{\it censored}~{\it values}.$ 

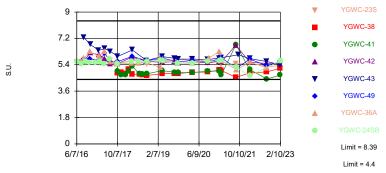


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 438 background values. 64.16% NDs. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

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 perconstituent 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

Prediction Limit Exceeds Limit: YGWC-38, YGWC-41, YGWC-42, YGWC-43 Interwell Parametric 2000 YGWC-38 1600 YGWC-41 1200 YGWC-42 YGWC-43 800 YGWC-49 400 YGWC-36A 6/9/20 6/7/16 10/7/17 2/7/19 10/10/21 2/10/23 I imit = 225

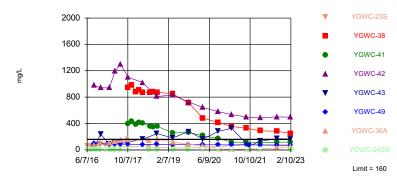
Background Data Summary (based on square root transformation): Mean=10.11, Std. Dev.=2.582, n=369, 0.542% NDs. Normality test: Chi Squared @alpha = 0.01, calculated = 12.71, critical = 14.07. Kappa = 1.894 (c=7, w=8, 1 of 2, event alpha = 0.05132). N exceeds UG tables; Kappa based on n=150. Report alpha = 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

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

Exceeds Limit: YGWC-38, YGWC-42, Prediction Limit
YGWC-43 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 perconstituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

	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)	<0.04		<0.04		<0.04	
11/3/2016				0.01		0.01		0.0.	
11/4/2016		<0.04					<0.04		
11/8/2016		-0.0-1					-0.04		
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016						0.0108 / 1)			
1/10/2017	-0.04		0.0074 (1)			0.0198 (J)			-0.04
1/11/2017	<0.04		0.0074 (J)	0.0070 (1)			.0.04		<0.04
1/12/2017				0.0076 (J)			<0.04		
1/13/2017		.0.04			.0.04			<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	

		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	0/2017									
5/26	6/2017									
6/27	7/2017		0.006 (J)	0.0087 (J)	0.0079 (J)			<0.04		
	8/2017	<0.04	. ,	. ,	. ,					<0.04
	9/2017								<0.04	
	0/2017					<0.04	0.0173 (J)		0.01	
	2017					-0.04	0.0170 (0)			
	0/2017									
	1/2017									
	3/2017									
	7/2017									
	2/2017									
	9/2017									
	3/2017		0.0071 (J)	0.0072 (J)	0.0094 (J)			<0.04		
	4/2017	<0.04				<0.04				<0.04
10/5	5/2017						0.0173 (J)		<0.04	
10/6	6/2017									
10/1	10/2017									
10/1	11/2017									
10/1	12/2017									
10/1	16/2017									
11/2	20/2017									
11/2	21/2017									
1/10	0/2018									
1/11	1/2018									
1/12	2/2018									
2/19	9/2018									
	0/2018									
	2018									
	2018									
	2018									
	2018			0.0052 (J)						
	2018		<0.04	0.0002 (0)	0.0098 (J)					
	2018				3.0000 (0)			<0.04	0.0045 (J)	0.004 (J)
	2018	<0.04					0.013 (J)	10.04	0.0043 (3)	0.004 (0)
	1/2018	<b>\0.04</b>				0.014 ( 1)	0.013 (3)			
	2/2018					0.014 (J)				
	3/2018									
	7/2018									
	8/2018									
	2018									
	2018									
	9/2018									
	0/2018									
	4/2018									
	5/2018									
	6/2018				0.01 (J)			0.0057 (J)	0.005 (J)	
9/27	7/2018									
10/1	1/2018	<0.04	0.0049 (J)	0.021 (J)			0.015 (J)			<0.04

					,				
10/2/2018	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-30I (bg) <0.04	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-3D (bg)
2/25/2019					-0.0-1				
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	0.0033 (3)	0.0004 (0)	0.01 (3)	<0.04	0.018 (J)	0.0043 (0)	<0.04	0.0054 (J)
	<b>~0.04</b>				<b>~0.04</b>	0.018 (3)		<b>\0.04</b>	0.0034 (3)
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	0.0075 (0)			0.0000 (0)	-0.04	0.012 (J)
	0.0073 (3)	<b>\0.04</b>	<b>\0.04</b>		0.0075 (1)				0.012 (3)
9/24/2020					0.0075 (J)	0.00 (1)			
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	0.01								
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									

		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	5/1/2016									
6	5/2/2016									
6	6/6/2016	<0.04	<0.04							
	6/7/2016			<0.04	<0.04	<0.04	0.99			
	6/8/2016							<0.04		
	//25/2016									
	//26/2016									
	//27/2016	0.0059 (J)	<0.04	0.008 (J)	<0.04					
	//28/2016	(-,		(,,		<0.04	1.09			
	3/1/2016							<0.04		
	3/30/2016								24.7	0.0166 (J)
	3/31/2016									
	0/1/2016									
	0/2/2016									
	)/13/2016									
	)/14/2016									
	)/15/2016									
	)/16/2016	0.0079 (J)		0.0086 (J)						
	)/19/2016	(-,	<0.04	(-,	<0.04	<0.04				
	0/20/2016						1.35	<0.04		
	1/1/2016									
	1/2/2016				<0.04					
	1/3/2016	0.0082 (J)	<0.04	0.0077 (J)		<0.04				
	1/4/2016	(0)								
	1/8/2016						1.5	<0.04		
	1/14/2016									0.0166 (J)
	1/15/2016									(-)
	1/16/2016								16.4	
	1/28/2016									
	2/15/2016									
	/10/2017									
	/11/2017	0.0096 (J)	<0.04	0.0092 (J)						
	/12/2017									
1	/13/2017				<0.04	<0.04				
1	/16/2017						1.67			
1	/17/2017							<0.04		
	2/21/2017									
2	2/22/2017									
2	2/24/2017									0.0145 (J)
2	2/27/2017								17.9	
	2/28/2017									
	3/1/2017	<0.04	<0.04							
3	3/2/2017			0.0095 (J)						
3	3/3/2017									
	3/6/2017				<0.04	<0.04				
3	3/7/2017									
	3/8/2017							<0.04		
3	3/9/2017						1.44			
4	/26/2017	0.0091 (J)	<0.04		<0.04	<0.04				
4	/27/2017									
4	/28/2017									
5	5/1/2017									

	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)		0.0444 (1)
5/8/2017									0.0141 (J)
5/9/2017								00.4	
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									

	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	0.0.2 (0)
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	0.01 (0)	0.0004 (0)	0.0002 (0)	-0.0-1	0.010 (0)			15.5	
3/26/2020						0.94	0.033 (J)	10.0	
9/22/2020						0.54	0.000 (0)		0.0076 (J)
9/23/2020	0.006 (J)	0.021 (J)	0.0066 (J)				<0.04		0.0070 (3)
9/24/2020	0.000 (3)	0.021 (3)	0.0000 (3)	0.0094 (J)	0.013 (J)	1.1	<b>\0.04</b>	15.2	
9/25/2020				0.0094 (3)	0.013 (3)	1.1		15.2	
10/7/2020									
3/1/2021									0.013 (J)
									0.013 (3)
3/2/2021 3/3/2021	0.0094 (J)	<0.04	0.01 (J)	<0.04			<0.04		
3/4/2021	0.0094 (3)	<0.04	0.01 (3)	<b>\0.04</b>	0.0079 (J)	1.2	<0.04	14.8	
8/19/2021					0.0079 (3)	1.2		14.0	0.011 ( 1)
8/20/2021									0.011 (J)
8/25/2021						1.3		13.5	
	<0.04					1.3		13.3	
8/26/2021 8/27/2021	<0.04	<0.04	0.011 (J)	<0.04					
		<0.04	0.011 (3)	<0.04	<0.04		<0.04		
9/1/2021					<0.04		<0.04		
9/3/2021									
9/27/2021									0.045 ( 1)
2/8/2022	-0.04	10.04	0.0000 (1)	-0.04	10.04				0.015 (J)
2/9/2022	<0.04	<0.04	0.0098 (J)	<0.04	<0.04	1 5	-0.04	14.4	
2/10/2022						1.5	<0.04	14.4	
2/11/2022	0.014 ( !)	-0.04	0.012 / 13		0.012 / 15				
8/30/2022	0.014 (J)	<0.04	0.013 (J)	-0.04	0.012 (J)				0.0004 (1)
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		

	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					(0)				
1/11/2017									
1/12/2017									
1/13/2017									
1/16/2017					<0.04				
1/17/2017					<b>~0.04</b>				
2/21/2017	-0.04								
2/22/2017	<0.04	0.705							
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									

	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	0.01	0.2.10		0.0.00 (0)	12	19.3	0.0401
10/16/2017	<0.04	1.10					12	10.0	0.0401
11/20/2017	-0.04					0.0251 (J)		21.8	0.156
11/21/2017						0.0201 (0)	12.1	21.0	0.100
1/10/2018							12.1		0.15
1/11/2018						0.0255 (J)	12.8		0.13
1/12/2018						0.0233 (3)	12.0	18.7	
2/19/2018	<0.04						15.2	10.7	0.146
2/20/2018	<b>10.04</b>					<0.04	13.2	18.6	0.140
4/2/2018						-0.04		10.0	
4/3/2018						0.033 (J)	14.5	20.9	0.12
4/4/2018		1.2	0.0041 (J)			0.033 (3)	14.5	20.3	0.12
6/5/2018		1.2	0.0041 (3)						
6/6/2018									
6/7/2018					<0.04				
6/8/2018					10.04				
6/11/2018									
6/12/2018									
6/13/2018				0.25					
6/27/2018				0.23			14.1		
6/28/2018						0.053	17.1	22.7	0.16
8/6/2018	<0.04					0.000			0.10
8/7/2018	-U.U <del>4</del>					0.024 (J)	11.9	19.1	0.12
9/19/2018						J.UZT (J)	. 1.0	10.1	V. 12
9/20/2018		2.1	0.0042 (J)						
9/24/2018		۷. ا	0.0042 (0)			0.028 (J)	12.2	18.4	0.099
9/25/2018						0.020 (0)	14.4	10.4	0.003
9/26/2018				0.24					
9/27/2018				0.24					
10/1/2018					<0.04				
10/1/2010					-0.07				

			Tidit	rates Cherit. Couti	nem company bac	a. I lant Tates AWA-	110		
	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					0.0000 (0)				
4/2/2019									
4/3/2019				0.00					
4/4/2019	.0.04			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)		0.01	0.037 (J)			0.087 (J)
9/25/2020		3.9	0.002 (0)			0.007 (0)	6	8	0.007 (0)
10/7/2020		3.5		0.018 (J)			0	Ü	
				0.018 (3)					
3/1/2021	.0.04								
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)		0.0 .	0.14			0.062
9/1/2022		2.6	0.011(0)	0.067		U. 1 <del>4</del>	3.6	4.8	0.002
	<0.04	۷.0		0.007	<0.04	0.12	5.0	4.0	
2/7/2023	<0.04	2.5			<0.04	0.13	2.2	4.1	0.057
2/8/2023		2.5	0.041.75	0.000 ( "			3.3	4.1	0.057
2/9/2023			0.014 (J)	0.028 (J)					
2/10/2023									

	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	

F/0/0017	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 ( 1)						
		0.0	15.2 (J)	00.0					
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				25.8			2.2	0.5 (1)	
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

	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	2.5	13.0	23.0	1.1	1.1	2.5	9.5	29.5
	22.4				1.1	1.1		9.5	29.0
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				2.0	7.7	29.8
3/4/2021	20.0	1.0	1-1.1					7.7	20.0
8/19/2021		2	14.2		1.2	1.2			28.1
		2	14.2		1.2	1.2			20.1
8/20/2021									
8/25/2021				05.0			0.5	7.0	
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									

	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 10	4.73	2	2.08					
	1.19	4.73	2	2.06	2.15	7.07			
7/28/2016					3.15	7.87	1.00		
8/1/2016							1.83	100	00.0
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	1.77		
4/26/2017	1.05	4.28		2.3	6.65	0.4			
4/27/2017	1.00	7.20		2.0	5.55				
4/28/2017									
5/1/2017									

		YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
5/2/2				1.95			12.9	1.57		
5/8/2	2017									14.6
5/9/2	2017									
5/10/	/2017								130	
5/26	/2017									
6/27	//2017									
	3/2017	1.06	4.95							
	/2017			2.02	2.54	6.04				
	/2017									
7/7/2								1.8		
	/2017						8.09	1.0		
							6.09		170	14.0
	/2017								172	14.3
	3/2017									
	//2017									
	2/2017									
	/2017									
10/3	3/2017					8.28				
10/4	/2017	1.1		2.03	2.25					
10/5	/2017		5.28					1.7		
10/6	5/2017									
10/1	0/2017									12.1
10/1	1/2017						6.36			
10/1	2/2017								144	
10/1	6/2017									
	0/2017									
	1/2017									
	/2018									
	/2018									
	/2018									
	/2018									
	/2018									
										<b>-</b> 0E
4/2/2										<25
4/3/2										
4/4/2									137	
6/5/2						9.1				
6/6/2					2.3					
6/7/2			4.8							
6/8/2										
	/2018	1.4		2.1						
	/2018						4.7	1.8		
6/13	3/2018									
6/27	//2018									
6/28	3/2018									
8/6/2	2018									
8/7/2										
	/2018									11.1 (J)
	/2018								108	
	/2018									
	/2018	1	4.6	2.1	2.3	10.4 (J)				
	/2018		-		-	- \-/		1.7		
	//2018						4.1			
	/2018									
10/1/	0.0									

	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									. 0.0 (0)
3/29/2019									
4/1/2019									
			2.5		0.0				
4/2/2019	1.0	F 0	2.5	2.0	8.8				
4/3/2019	1.2	5.3		2.9		0.7	4.0		
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									0.0
8/25/2021						10.6		79.9	
8/26/2021	0.98 (J)					10.0		70.0	
8/27/2021	0.98 (3)	5.1	2.7	2.4					
9/1/2021		5.1	2.7	2.4	0.5		2.2		
9/3/2021					9.5		2.3		
9/3/2021									
									0.4
2/8/2022	0.07 (1)	F 4	0.0	2.2	0.0				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		

	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	0.01	0.4	13.9						
9/2/2016			10.0	11.2					
9/13/2016				11.2					
9/14/2016					23.5				
9/15/2016					23.3				
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/2/2016									
11/3/2016					22.7				
11/4/2016					23.7				
11/8/2016				7.70					
11/14/2016			10.5	7.79					
11/15/2016		2.70	13.5						
11/16/2016	0.47 (D)	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					00.0				
1/16/2017					23.3				
1/17/2017									
2/21/2017	10.4								
2/22/2017	10.4	C 40							
2/24/2017		6.42	10.5						
2/27/2017			12.5	0.07					
2/28/2017				8.37					
3/1/2017									
3/2/2017					05.4				
3/3/2017					25.1				
3/6/2017									
3/7/2017									
3/8/2017									
3/9/2017									
4/26/2017									
4/27/2017					00.7				
4/28/2017					30.7				
5/1/2017									

	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	( 0,				( 0,	( 0,			( 0,
5/8/2017	14.2								
5/9/2017			14.4	13.9					
5/10/2017		7.9							
5/26/2017		7.0			26.2				
6/27/2017					20.2				
6/28/2017					26.1				
6/29/2017					20.1				
6/30/2017									
7/7/2017									
7/10/2017		0.74							
7/11/2017		6.71	44.4	10.0					
7/13/2017	44.4		14.1	16.6					
7/17/2017	14.1			10.1					
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				

	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					20				
9/26/2019			12.1	11.7					
9/27/2019			12.1						
10/8/2019	28.3								
10/9/2019	20.5	18.2				2.4	27.6	133	4.9
	24.2	10.2				2.4	27.0	133	4.9
3/17/2020	24.3								
3/18/2020					07.4				
3/19/2020					27.4				4.0
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									

		YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-30I (bg)	VC)M/A 148 (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-3D (bg)
,	6/1/2016	1.3	1.6	1.3	rGWA-5D (bg)	r GWA-301 (bg)	YGWA-14S (bg)	rGWA-51 (bg)	YGVVA-41 (bg)	rGWA-3D (bg)
	6/2/2016	1.5	1.0	1.5	7.2	1.9	4.1	4.3	3.7	1.4
	6/6/2016				7.2	1.9	4.1	4.5	3.7	1.4
	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	7/28/2016									
8	8/1/2016									
8	3/30/2016									
8	3/31/2016									
9	9/1/2016									
9	9/2/2016									
ç	9/13/2016		1.3	1.1						
ç	9/14/2016	1.3			6.6			3.8	3.4	
9	9/15/2016						4.2			1.5
ç	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			
	1/10/2017	1.1		1.1			4.1			1.2
		1.1		1.1	6.9			2.0		1.2
	1/12/2017				6.8			3.8	4.0	
	1/13/2017		4.4			1.7			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	4/27/2017		1.3	1						
	4/28/2017									
į	5/1/2017				7.2				4.3	

		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)
5/2/201	17							4.6		
5/8/201	17									
5/9/201										
5/10/20										
5/26/20										
6/27/20			1.4	1.1	7			4.3		
		1.0	1.4	1.1	,			4.5		1.2
6/28/20		1.2								1.3
6/29/20									4.2	
6/30/20						1.8	3.7			
7/7/201										
7/10/20										
7/11/20	017									
7/13/20	017									
7/17/20	017									
9/22/20	017									
9/29/20	017									
10/3/20	017		1.7	1.1	6.5			4.2		
10/4/20	017	1.2				1.8				1.5
10/5/20							3.8		4.7	
10/6/20										
10/10/2										
10/11/2										
10/12/2										
10/16/2										
11/20/2										
11/21/2										
1/10/20										
1/11/20										
1/12/20										
2/19/20										
2/20/20										
4/2/201										
4/3/201										
4/4/201										
6/5/201				1.1						
6/6/201	18		1.4		4.7					
6/7/201	18							4.5	4.4	1.2
6/8/201	18	1.2					3.4			
6/11/20	018					2				
6/12/20	018									
6/13/20	018									
6/27/20	018									
6/28/20	018									
8/6/201										
8/7/201										
9/19/20										
9/20/20										
9/24/20										
9/25/20										
9/26/20					4.8			5.1	4.8	
9/27/20								5.1		
10/1/20		1.2	1.4	1.1			3.8			1.5
10/1/20	010	1.4	1.4	1.1			5.0			1.0

	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	11	1.1		1.8	0.2			1.2
3/24/2020	***		***	3.5	1.0		4.3		1.2
3/25/2020				3.3			4.5	3.9	
								3.9	
3/26/2020				2.0			4.0	4.5	
9/22/2020			0.00 ( 1)	3.6			4.2	4.5	
9/23/2020	1	1.2	0.99 (J)						1.1
9/24/2020					1.5	5.0			
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									

	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		,		1.0	2.7	2.4	5.5		
11/1/2016						2.7	0.0		
11/2/2016				2.6					
11/3/2016	7.4	7.5	5.4	2.0	2.9				
11/4/2016	7.4	7.5	5.4		2.5				
11/8/2016						2.8	6.4		
11/14/2016						2.0	0.4		6.4
11/15/2016									0.4
11/16/2016								4.7	
11/28/2016								4.7	
12/15/2016									
1/10/2017									
1/11/2017	6.1	6.5	4.7						
1/11/2017	0.1	0.5	4.7						
1/13/2017				2.3	2.5				
1/16/2017				2.3	2.5	1.8			
1/17/2017						1.0	5.5		
2/21/2017							5.5		
2/22/2017									
2/24/2017									5.5
2/27/2017								4.7	0.0
2/28/2017								7.7	
3/1/2017	6	6.9							
3/2/2017	O	0.9	4.8						
3/3/2017			4.0						
3/6/2017				1.9	2.1				
3/7/2017				1.0	2.1				
3/8/2017							5.4		
						1.7	J. <del>4</del>		
3/9/2017 4/26/2017	6.5	7		2	2.1	1.7			
4/27/2017	0.5	,		_	2.1				
4/28/2017 5/1/2017									
J: 1/201/									

= 10.100		YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
5/2/20				4.6			1.8	5.7		5.0
5/8/20										5.8
5/9/20										
5/10/20									4.4	
5/26/20										
6/27/20	017									
6/28/20	017	6.4	7							
6/29/20	017			4.5	2.6	2.8				
6/30/20	017									
7/7/20	17							5.7		
7/10/20	017						1.9			
7/11/20	017								4.7	5.8
7/13/20										
7/17/20										
9/22/20										
9/29/20										
10/3/20						2.2				
10/4/20		6.8		4.7	2.6	2.2				
		0.0	7	4.7	2.0			6		
10/5/20			7					6		
10/6/20										5.0
10/10/2										5.9
10/11/2							2.4			
10/12/2									4.3	
10/16/2										
11/20/2										
11/21/2	2017									
1/10/20	018									
1/11/20	018									
1/12/20	018									
2/19/20	018									
2/20/20	018									
4/2/20	18									4.8
4/3/20	18									
4/4/20	18								3.7	
6/5/20						1.7				
6/6/20					2.7					
6/7/20			6.8							
6/8/20										
6/11/20		6.8		4.9						
6/12/20		0					1.8	6.2		
6/13/20							1.0	V. <u>L</u>		
6/27/20										
6/28/20										
8/6/20										
8/7/20										
9/19/20										4
9/20/20									3.8	
9/24/20										
9/25/20		7.8	7.9	5.6	3.6	2.2				
9/26/20								6.9		
9/27/20							2			
10/1/20	018									

	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				
	6.2	6.0	4.0	2.1	2.5				
4/3/2019	6.3	6.9		3.1		4.7	5.0		
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									5.7
3/3/2021	7.2	7	7.1	2.7			8.6		
	7.2	,	7.1	2.7	1.0	1.0	6.0	2.7	
3/4/2021					1.8	1.8		2.7	2.5
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		

	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	•	1.0	5.3						
9/2/2016			0.0	6.3					
9/13/2016				0.0					
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					0.0.				

	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	(-3)				(-3)	(*3)			1 (13)
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	0.0			6.9					
9/29/2017				5.5					
10/3/2017				3.3	1.2				
10/4/2017					1.2				
10/5/2017									
10/6/2017				5.5					
10/10/2017				3.3					
10/11/2017			5.8	6.4		2.4			
10/11/2017		1.6	5.6	0.4		2.4	3.1	6	3.8
10/12/2017	4.2	1.0					3.1	O	3.0
11/20/2017	4.2					1.8		6.9	4.4
11/21/2017						1.0	4.2	0.9	4.4
1/10/2018							4.2		4.6
						1.6	2.0		4.0
1/11/2018						1.6	3.8		
1/12/2018	4.2						2.5	6.6	4.0
2/19/2018	4.3					2	3.5	6.2	4.6
2/20/2018						2		6.2	
4/2/2018						3.3	4.4	6.0	5.9
4/3/2018		1.8	4.3			3.3	4.4	6.9	5.9
4/4/2018 6/5/2018		1.0	4.3						
6/6/2018 6/7/2018					1				
6/8/2018					1				
6/11/2018									
6/12/2018									
6/13/2018				5.6					
6/27/2018				3.0			3.6		
6/28/2018						2.1	5.0	6.4	5
8/6/2018	3.8					2.1		0.4	J
8/7/2018	5.0					1.2	3.3	5.5	4.3
9/19/2018						1.4	0.0	0.0	
9/20/2018		1.9	4.8						
9/24/2018		1.5	7.0			1.3	3.3	5.9	4.9
9/25/2018						1.5	5.5	5.5	T. <b>V</b>
9/26/2018				6					
9/27/2018				U					
10/1/2018					1.1				
10/1/2016					1.1				

	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				0.0			2.7	•	
9/22/2020	4.2								
9/23/2020	7.2				0.88 (J)				
9/24/2020			4.6		0.00 (0)	2.7			5
9/25/2020		2.3	4.0			2.7	3	4	J
10/7/2020		2.3		8.7			3	4	
				6.7					
3/1/2021	4.1								
3/2/2021	4.1				0.86 (1)				
3/3/2021		0.1	4.4	0.0	0.86 (J)	4.0	2.4	2.0	4.0
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									

		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)	1GWA-143 (bg)	r GVVA-51 (bg)	TGVVA-3D (bg)	TGWA-41 (bg)	1 GVVA-301 (bg)	ravva-sb (bg)
	2/2016	0.15 (3)	<b>~</b> 0.1	0.12 (3)	<0.1	<0.1	0.11 (1)	<0.1	<0.1	0.62
					<0.1	<0.1	0.11 (J)	<0.1	<0.1	0.02
	6/2016									
	7/2016									
	8/2016									
	25/2016	0.14 (J)	0.06 (J)						0.06 (J)	
	26/2016			0.08 (J)	0.02 (J)	<0.1	0.05 (J)	<0.1		0.49
	27/2016									
	28/2016									
	1/2016									
	30/2016									
	31/2016									
9/	1/2016									
9/2	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	
9/2	20/2016									
11	1/1/2016	<0.1		<0.1					<0.1	0.68
11	1/2/2016				<0.1		<0.1	<0.1		
11	1/3/2016									
11	1/4/2016		<0.1			<0.1				
	1/8/2016									
	1/14/2016									
	1/15/2016									
	1/16/2016									
	1/28/2016									
	2/15/2016									
	10/2017				<0.1					
	11/2017	0.09 (J)		0.05 (J)						0.49
	12/2017	(1)		(-)		<0.1	0.04 (J)			
	13/2017						(0)	<0.1		
	16/2017		<0.1						<0.1	
	17/2017								· · ·	
	21/2017								<0.1	
	22/2017								-0.1	
	24/2017									
	27/2017									
	28/2017									
	1/2017	<0.1								
	2/2017	<b>~</b> 0.1	<0.1	<0.1						0.48
			<0.1	<b>~</b> 0.1						0.46
	3/2017 6/2017							<0.1		
	7/2017 7/2017					-0.1	-0.1	<0.1		
					-0.4	<0.1	<0.1			
	8/2017				<0.1					
	9/2017	0.00 (1)			-0.1				-0.1	0.40
	26/2017	0.08 (J)	0.04 ( ))	0.04 ( ))	<0.1				<0.1	0.48
	27/2017		0.01 (J)	0.04 (J)						
	28/2017						.0.4	.0.4		
5/	1/2017						<0.1	<0.1		

	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		.0.4			.0.4				
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	<b>~0.1</b>	<b>~0.1</b>		<b>~0.1</b>	<b>~</b> 0.1		-0.1	~0.1
	<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									
		.0.4		.0.4				.0.4	
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									

					,				
	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	311 (3)								
4/3/2019					<0.1	0.047 (J)	<0.1		
4/4/2019					-0.1	0.047 (0)	-0.1		
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	

	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									

	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				-0.1			-0.1	0.18 (J)	
11/15/2016								0.10 (0)	
11/16/2016									0.07 (J)
11/28/2016									0.07 (0)
12/15/2016									
1/10/2017									
1/11/2017	<0.1	<0.1				<0.1			
1/12/2017	30.1	30.1				40.1			
1/13/2017			<0.1		<0.1				
1/16/2017			<b>~0.1</b>	<0.1	<b>~0.1</b>				
1/17/2017				30.1			<0.1		
2/21/2017							40.1		
2/22/2017									
2/24/2017								0.05 (J)	
2/27/2017								0.03 (0)	0.06 (J)
2/28/2017									0.00 (0)
3/1/2017	<0.1	<0.1							
3/2/2017	-0.1	<b>50.1</b>				<0.1			
3/3/2017						-0.1			
3/6/2017			<0.1		<0.1				
3/7/2017			J. 1		·				
3/8/2017							<0.1		
3/9/2017				<0.1			<b>U.</b> 1		
4/26/2017	<0.1	<0.1	<0.1	.0.1	0.04 (J)				
4/27/2017	J.1	J. 1	J. 1		J.04 (0)				
4/28/2017									
5/1/2017									
S. 1/201/									

		YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWC-23S	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-24SB	YGWA-47 (bg)	YGWC-42
	2017				<0.1		<0.1	<0.1		
	2017								0.03 (J)	
5/9/2	2017									
5/10	)/2017									<0.1
5/26	5/2017									
6/27	7/2017									
6/28	3/2017	<0.1	<0.1							
6/29	9/2017			<0.1		<0.1	<0.1			
6/30	)/2017									
7/7/2	2017							<0.1		
7/10	)/2017				<0.1					
7/11	/2017								0.07 (J)	<0.1
7/13	3/2017									
	7/2017									
	2/2017									
	9/2017									
	3/2017					<0.1				
	/2017		<0.1	<0.1			<0.1			
	5/2017	<0.1	-0.1	-0.1			-0.1	<0.1		
	6/2017	<b>~0.1</b>						<b>~0.1</b>		
									<0.1	
	0/2017				-0.1				<0.1	
	1/2017				<0.1					.0.4
	2/2017									<0.1
	6/2017									
	20/2017									
	21/2017									
	)/2018									
	/2018									
1/12	2/2018									
2/19	9/2018									
2/20	)/2018									
3/27	7/2018									
3/28	3/2018	<0.1	<0.1				<0.1			
3/29	9/2018			<0.1		<0.1				
3/30	)/2018				<0.1			<0.1		
4/2/2	2018								<0.1	
4/3/2	2018									
4/4/2	2018									<0.1
6/5/2	2018					0.13 (J)				
6/6/2	2018			<0.1						
6/7/2	2018	<0.1								
	2018									
	/2018		<0.1				<0.1			
	2/2018				<0.1			<0.1		
	3/2018									
	7/2018									
	3/2018									
	2018									
	2018									
	9/2018								<0.1	
	)/2018 )/2018								-0.1	0.041 (J)
	1/2018									0.0 <del>1</del> 1 (0)
3124										

March   Marc					YGWC-23S			YGWC-24SB	YGWA-47 (bg)	YGWC-42
1001-0018		<0.1	<0.1	<0.1		0 (J)	<0.1			
1002015   1002	9/26/2018							<0.1		
1000   1000	9/27/2018				<0.1					
282019	10/1/2018									
28/2019	10/2/2018									
28/2019	2/25/2019									
Section   Sect										
302019										
1968										
1962   1962   1963   1964   1965			<0.1	<0.1		0.32	<0.1	<0.1		
3272019		-0.1	-0.1	30.1	-0.1	0.32	30.1	<b>40.</b> I		
3072/2019		<0.1			<0.1					
3/28/2019									0.004 ( 1)	.0.4
A									0.081 (J)	<0.1
A12019										
402019										
4/3/2019	4/1/2019									
Automotion	4/2/2019					0.12 (J)	<0.1			
611/2019	4/3/2019	<0.1	<0.1	<0.1						
8/19/2019	4/4/2019				0.049 (J)			0.033 (J)		
8202019	6/12/2019									
8202019	8/19/2019									
821/2019									<0.1	
8222019										
9/24/2019										<0.1
9252019						0.15 (1)				•
91262019				-0.1		0.13 (3)	-0 1			
9/27/2019		-0.1	-0.1	<0.1			<0.1	0.008 / 1)		
1082019		<0.1	<b>~</b> 0.1		0.10 ( 1)			0.098 (3)		
10/9/2019					0.12 (J)					
2/10/2020									0.034 (J)	
2/11/2020										<0.1
2/12/2020										
3/17/2020	2/11/2020	<0.1	<0.1				<0.1			
3/18/2020 3/19/2020 3/24/2020 40.1 40.1 40.1 40.1 40.1 40.1 40.1 40.	2/12/2020			<0.1		0.1 (J)				
3/19/2020	3/17/2020								<0.1	
3/24/2020	3/18/2020									
3/25/2020	3/19/2020									
\$\frac{3}{2}6/2020	3/24/2020	<0.1	<0.1	<0.1		0.081 (J)	<0.1			
8/26/2020 8/27/2020 9/22/2020 9/23/2020 9/23/2020 9/24/2020 9/25/2020 10/7/2020 2/8/2021 2/10/2021 2/11/2021 2/12/2021	3/25/2020									<0.1
8/27/2020	3/26/2020				<0.1			<0.1		
8/27/2020										
9/22/2020   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1   < 0.1									<0.1	
9/23/2020 < 0.1 < 0.1 < 0.1 < 0.1 0.079 (J) < 0.1										
9/24/2020		<0.1	<0.1				<0.1	<0.1		
9/25/2020 10/7/2020 2/8/2021 2/9/2021 <0.1 <0.1 <0.1 0.092 (J) <0.1 2/10/2021		-0.1	-0.1	<0.1	<0.1	0.079 ( 1)	-0.1	-0.1		<0.1
10/7/2020 2/8/2021 2/9/2021 <0.1 <0.1 <0.1 0.092 (J) <0.1 2/10/2021 <0.1 2/11/2021 2/12/2021				-0.1	·U. I	3.073 (3)				-V. 1
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										
2/9/2021 < 0.1 < 0.1 < 0.1 0.092 (J) < 0.1 2/10/2021 < 0.1 2/11/2021 2/12/2021										
2/10/2021     <0.1										
2/11/2021 2/12/2021		<0.1	<0.1	<0.1	<0.1	0.092 (J)		<0.1		
2/12/2021										<0.1
3/1/2021 <0.1										
	3/1/2021								<0.1	

	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)		

		YGWC-43	C)MA 2 (bg)	YGWC-49	YGWC-36A	VC)M/A 21 (bg)	VC/MA 20 (bg)	VCWC 39	YGWC-41	VCWA 40 (bg)
	6/1/2016	1GWC-43	GWA-2 (bg)	1GWC-49	TGWC-30A	YGWA-2I (bg)	rGWA-39 (bg)	YGWC-38	TGWC-41	YGWA-40 (bg)
March   Marc										
692016 6 682016 7 7000000 7 70000000 7 700000000 7 7000000										
Page   Page										
73262018										
7282016										
1/20/2016										
81/2016   81/2016   0.12 (J)										
8012016 0.12 (J) 0.14 (J) 0.09										
8112016 0 0.12 (J) 0.14 (J) 0.09 (J) 1.00 (J) 1.										
\$192016   0.05 (J)										
902016		0.12 (J)	0.14 (J)							
911/32016 911/52017 911/52										
911-2016   918-2016					0.05 (J)					
9152016 9162016 91792016 91792016 91792016 91792016 91792016 91792016 91792016 91792016 91792016 91792016 91792016 91792016 91792016 91792016 91792016 91792017 91792										
9162016 9192016 9192016 111/2016 111/2016 111/2016 111/2016 111/2016 111/2016 111/2016 111/2016 111/2016 111/2016 111/2016 111/2017 111/2017 111/2017 111/2017 111/2017 111/2017 111/2017 111/2017 111/2017 111/2017 111/2017 111/2017 111/2017 111/2017 1132017 1132017 2222017 0.09 (J) 2222017 0.09 (J) 33/2017						0.08 (J)				
9192016 9202016 111/2016 111/2016 111/2016 111/2016 111/2016 111/2016 111/2016 111/2016 111/2016 111/2016 111/2016 111/2016 111/2017 111/2										
90/2016 11/1/2016 11/1/2016 11/1/2016 11/1/2016 11/1/2016 11/1/2016 11/1/2016 11/1/2016 11/1/2016 11/1/2016 11/1/2016 0.16 (J) 11/1/2016 0.2 (J) 11/1/2016 0.2 (J) 11/1/2016 11/1/2017 11/	9/16/2016									
11/1/2016 11/2/2016 11/2/2016 11/2/2016 11/2/2016 11/2/2016 11/1/2/2016 11/1/2/2016 11/1/2/2016 11/1/2/2016 11/2/2016 11/2/2016 11/2/2017 1/2/2017 2/2/2017 2/2/2017 3/2/2017 3/2/2017 3/3/2017										
11/2/2016 11/4/2016 11/4/2016 11/4/2016 11/4/2016 11/4/2016 11/4/2016 11/4/2016 0.16 (J) 11/4/2016 0.2 (J) 11/28/2016 0.2 (J) 11/28/2016 0.12 (J) 11/28/2016 0.12 (J) 11/2017 11/2017 11/2017 11/2017 11/2017 2/21/2017 2/21/2017 0.09 (J) 2/24/2017 0.09 (J) 3/2/2017 4/2/2/2017										
11/3/2016 11/4/2016 11/4/2016 11/14/2016 0.16 (J) 11/15/2016 0.16 (J) 11/15/2016 0.12 (J) 11/28/2016 0.12 (J) 11/28/2017 0.09 (J) 2/24/2017 3/2/2017 4/2/2017 4/2/2017	11/1/2016									
11/4/2016 11/4/2016 11/14/2016 0.16 (J) 11/15/2016 0.16 (J) 11/16/2016 0.2 (J) 11/28/2016 0.12 (J) 11/28/2016 0.12 (J) 11/28/2017 11/12/2017 11/12/2017 11/12/2017 11/12/2017 11/12/2017 11/12/2017 11/12/2017 11/12/2017 11/12/2017 11/12/2017 11/12/2017 11/12/2017 11/12/2017 11/12/2017 11/12/2017 11/12/2017 11/12/2017 12/12/2017 12/12/2017 12/12/2017 13/12/2017 13/12/2017 13/12/2017 13/12/2017 13/12/2017 13/12/2017 13/12/2017 13/12/2017 13/12/2017 13/12/2017 13/12/2017 13/12/2017 13/12/2017 13/12/2017 13/12/2017 13/12/2017 13/12/2017 13/12/2017 14/26/2017 14/26/2017 14/26/2017 14/26/2017	11/2/2016									
11/8/2016 11/14/2016 11/15/2016 0.16 (J) 11/15/2016 0.2 (J) 11/28/2016 0.12 (J) 11/28/2016 0.12 (J) 11/2017 11/12/2017 11										
11/14/2016 0.16 (J) 11/16/2016 0.2 (J) 11/26/2016 0.12 (J) 11/26/2016 0.12 (J) 11/2017 1/11/2017 1/11/2017 0.16 (J) 11/2017 1/11/2017 0.21 (J) 11/2017 1/11/2017 0.21 (J) 11/2017 1/11/2017 0.09 (J) 2/22/2017 0.09 (J) 2/22/2017 0.09 (J) 3/2/2017 0.01 (J) 3/2/2017 0.01 (J) 3/2/2017 0.006 (J)	11/4/2016					<0.1				
11/16/2016	11/8/2016									
11/16/2016 0.2 (J) 11/28/2016 0.12 (J) 12/15/2016 0.12 (J) 11/10/2017 11/12/2017 11/12/2017 11/13/2017 11/13/2017 11/15/2017 2/21/2017 2/21/2017 2/22/2017 0.21 (J) 2/24/2017 0.21 (J) 2/24/2017 3/2/2017 4/2/2/2017	11/14/2016				0.18 (J)					
11/28/2016 0.12 (J)  12/15/2018 0.08 (J)  11/10/2017 1/10/2017  11/13/2017  11/13/2017  11/13/2017  11/13/2017  11/13/2017  12/21/2017  2/21/2017  2/21/2017  2/21/2017  2/21/2017  3/2/2017  3/2/2017  3/3/2017  3/2/2017  3/2/2017	11/15/2016			0.16 (J)						
12/15/2016 1/10/2017 1/11/2017 1/11/2017 1/13/2017 1/16/2017 1/16/2017 1/17/2017 2/21/2017 2/21/2017 2/22/2017 0.09 (J) 2/24/2017 0.21 (J) 3/2/2017	11/16/2016	0.2 (J)								
1/10/2017 1/11/2017 1/12/2017 1/13/2017 1/13/2017 1/13/2017 1/17/2017	11/28/2016		0.12 (J)							
1/11/2017 1/13/2017 1/13/2017 1/16/2017 1/16/2017 1/17/2017	12/15/2016					0.06 (J)				
1/12/2017 1/13/2017 1/16/2017 1/17/2017 1/17/2017 1/17/2017 1/2/2017	1/10/2017									
1/13/2017 1/16/2017 2/21/2017 2/21/2017 2/22/2017 0.09 (J) 2/24/2017 0.21 (J) 2/27/2017 0.06 (J) 2/28/2017 3/1/2017 3/3/2017 4/28/2017 4/28/2017	1/11/2017									
1/16/2017 1/17/2017 2/21/2017 2/22/2017 0.09 (J) 2/24/2017 0.21 (J) 2/27/2017 0.06 (J) 3/1/2017 3/3/2017 3/3/2017 3/3/2017 3/3/2017 3/3/2017 3/3/2017 3/3/2017 3/3/2017 3/3/2017 3/3/2017 3/3/2017 3/3/2017 3/3/2017 3/3/2017 3/3/2017 3/3/2017 3/3/2017 4/2/2017 4/2/2017 4/28/2017 0.06 (J)	1/12/2017									
1/17/2017 2/21/2017 2/22/2017 0.09 (J) 2/24/2017 0.21 (J) 2/27/2017 0.06 (J) 3/1/2017 3/2/2017 3/3/2017 3/6/2017 3/6/2017 3/8/2017 3/8/2017 4/26/2017 4/28/2017 4/28/2017	1/13/2017									
2/21/2017 2/22/2017 0.21 (J) 2/24/2017 0.21 (J) 2/28/2017 0.09 (J) 3/1/2017 3/2/2017 3/3/2017 3/3/2017 3/3/2017 3/3/2017 3/3/2017 3/3/2017 3/3/2017 3/3/2017 3/3/2017 3/3/2017 3/3/2017 3/3/2017 3/3/2017 3/3/2017 3/3/2017 3/3/2017 4/26/2017 4/28/2017 0.06 (J)	1/16/2017					0.1 (J)				
2/22/2017 0.21 (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 3/3/2017 3/6/2017 3/8/2017 3/9/2017 4/26/2017 4/28/2017 6.06 (J)	1/17/2017									
2/24/2017	2/21/2017									
2/27/2017 2/28/2017 3/1/2017 3/2/2017 3/3/2017 3/6/2017 3/7/2017 3/8/2017 3/8/2017 4/26/2017 4/28/2017 4/28/2017 0.06 (J)	2/22/2017		0.09 (J)							
2/28/2017 3/1/2017 3/2/2017 3/3/2017 3/6/2017 3/7/2017 3/8/2017 3/8/2017 4/26/2017 4/28/2017 4/28/2017	2/24/2017	0.21 (J)								
3/1/2017 3/3/2017 3/3/2017 3/6/2017 3/7/2017 3/8/2017 3/9/2017 4/26/2017 4/27/2017 4/28/2017 4/28/2017 6 O .06 (J)	2/27/2017			0.06 (J)						
3/2/2017 3/3/2017 3/6/2017 3/7/2017 3/8/2017 3/9/2017 4/26/2017 4/27/2017 4/28/2017 0.06 (J)	2/28/2017				0.09 (J)					
3/3/2017 3/6/2017 3/7/2017 3/8/2017 3/9/2017 4/26/2017 4/27/2017 4/28/2017 0.06 (J)	3/1/2017									
3/6/2017 3/7/2017 3/8/2017 3/9/2017 4/26/2017 4/27/2017 4/28/2017 0.06 (J)	3/2/2017									
3/7/2017 3/8/2017 3/9/2017 4/26/2017 4/27/2017	3/3/2017					<0.1				
3/8/2017 3/9/2017 4/26/2017 4/27/2017 4/28/2017 0.06 (J)	3/6/2017									
3/9/2017 4/26/2017 4/27/2017 4/28/2017 0.06 (J)	3/7/2017									
4/26/2017 4/27/2017 4/28/2017 0.06 (J)	3/8/2017									
4/27/2017 4/28/2017 0.06 (J)	3/9/2017									
4/28/2017 0.06 (J)	4/26/2017									
	4/27/2017									
5/1/2017						0.06 (J)				
	5/1/2017									

	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			
10/11/2017	0.1 (J)		0.14 (0)	-0.1		-0.1	<0.1	<0.1	<0.1
10/16/2017	0.1 (3)	0.12 (J)					-0.1	40.1	-0.1
11/20/2017		0.12 (0)				<0.1	0.2 (J)		<0.1
11/20/2017						<b>~</b> 0.1	0.2 (3)	<0.1	<b>~0.1</b>
1/10/2018								<0.1	<0.1
						-0.1		-0.1	<b>V</b> 0.1
1/11/2018						<0.1	0.21 ( 1)	<0.1	
1/12/2018		0.17					0.21 (J)	-0.1	-0.4
2/19/2018		0.17				0.00	-0.1	<0.1	<0.1
2/20/2018						0.23	<0.1		
3/27/2018					0.04				
3/28/2018					0.31				
3/29/2018				-0.4					
3/30/2018				<0.1					
4/2/2018						.0.4	0.44		0.4
4/3/2018	.0.4					<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

					, ,				
	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)		0.0.10 (0)					
8/19/2019		<0.1							
8/20/2019		-0.1							
8/21/2019	0.062 (J)					<0.1			<0.1
8/22/2019	0.002 (3)					<b>~0.1</b>	<0.1	<0.1	<b>~0.1</b>
9/24/2019					0.081 (J)		<0.1	<0.1	
					0.061 (3)				
9/25/2019			0.00 (1)	0.004 ( 1)					
9/26/2019			0.09 (J)	0.094 (J)					
9/27/2019		0.050 (1)							
10/8/2019	.0.4	0.052 (J)				.0.4		.0.4	
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									

	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									

	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						0.40			
9/19/2016					5.78 (D)				
9/20/2016					3.70 (D)				
		7.7	7.24		F 60				
11/1/2016		7.7	7.24		5.62	E 41		7.25	6.00
11/2/2016						5.41		7.35	6.08
11/3/2016				0.00			F.04		
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									

	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	7								
2/28/2017	7								
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	7.42	0.2
						E 41	3.00	7.43	
3/8/2017						5.41			
3/9/2017		7.4			5.50	5.00			
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									
5/9/2017									
5/10/2017	7								
5/26/2017	7								
6/27/2017	7		6.87	6.21			5.7	7.32	
6/28/2017	7	7.5							
6/29/2017	7								6.21
6/30/2017	7				5.72	5.39			
7/7/2017									
7/10/2017	7								
7/11/2017	7								
7/13/2017	7								
7/17/2017	7 6.03								
9/22/2017	7								
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									
10/10/20									
10/11/20									
10/12/20									
10/16/20									
11/20/20									
11/21/20									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018				6.25	E 92	E 47			
3/27/2018		774		6.25	5.83	5.47			
3/28/2018		7.74	7.00				5.00	7.00	0.00
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						

	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							5.00	7.10	5.04
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							0.00	7.11	0.40
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									

	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									

	YGWA-3D (bg)	YGWA-18S (bg)	VGWA 181 (bg)	YGWC-23S	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWC-24SB	YGWC-42
8/27/2008	r GVVA-3D (bg)	1GWA-165 (bg)	YGWA-18I (bg)	1GWC-233	rGWA-211 (bg)	1GWA-173 (bg)	1GWA-203 (bg)	1GWC-243B	TGWC-42
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	7.01	5.71	6.17						
6/7/2016		5.71	0.17	5.57	6.1	5.62	5.77		
6/8/2016				5.57	0.1	5.02	3.77	5.65	
								5.05	
7/25/2016	7.00								
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	7.70						5.67		
11/3/2016		5.39	5.97		6.07	5.59	0.07		
11/4/2016		3.39	5.57		0.07	3.33			
				E E2				E EE	
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									

2	/27/2017	YGWA-3D (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWC-23S	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWC-24SB	YGWC-42 6.09
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	
	9/2017				5.56					
	/26/2017	7.45	5.4	5.99		6.32		5.66		
	27/2017									
	/28/2017									
	/1/2017									
	/2/2017				5.61		5.47		5.46	
	/8/2017									
	9/2017									
	10/2017									5.79
	/26/2017									0.70
	27/2017									
	28/2017	7.65	5.36	6						
	29/2017	7.00	0.00	Ü		6.47	5.56	5.85		
	30/2017					0.47	5.50	3.00		
	7/2017								5.81	
	/10/2017				5.68				5.61	
	/11/2017				5.06					5.45
										5.45
	/13/2017 /17/2017									
	/22/2017									
	/29/2017					0.50				
	0/3/2017	7.40	F 22			6.56	F F7	5.00		
	0/4/2017	7.49	5.32	0.11			5.57	5.83	5.45	
	0/5/2017			6.11					5.45	
	0/6/2017									
	0/10/2017				5.40					
	0/11/2017				5.46					
	0/12/2017									5.48
	0/16/2017									
	1/20/2017									
	1/21/2017									
	/10/2018									
	/11/2018									
	/12/2018									
	/19/2018									
	/20/2018									
	/27/2018	7.04	5.04	0.4			5.50			
	/28/2018	7.91	5.34	6.1		0.75	5.59	5.00		
	/29/2018					6.75		5.93		
	/30/2018				5.73				5.64	
	/2/2018									
	/3/2018									
	4/2018									5.93
6	/5/2018					6.09				

0/0/0010	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	7.00		5.00				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	y. <del>-</del>			7.13	y.==	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		5.55	3.00		5.00	5.07	2.50		5.53
3/26/2020				5.69				5.51	5.50
0,20,2020				5.00				5.01	

F (0)0000	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	7.57	F 00 (D)	C 01 (D)			5 50 (D)		5.04	
9/23/2020	7.57	5.29 (D)	6.01 (D)	F. F. 1	C 7 (D)	5.58 (D)	F 0 (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		5.43	6.12	5.61	6.95		5.86	5.69	
2/9/2021	7 01	5.45	0.12	5.01	0.93		5.60	5.09	5.65
2/10/2021	7.81								5.05
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	0.39	5.51	5.69	5.44	6.8	5.52	5.69	5.7	5.59
8/19/2021	5.34			5.44	0.0				3.39
8/20/2021	3.34								
8/25/2021				5.46					6.73
8/26/2021		4.4		3.40					0.73
8/27/2021		7.7	5.4			5.27	5.57		
9/1/2021			5.4		6.65	5.27	3.37	5.22	
9/3/2021					0.03			5.22	
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	

	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			3.70	5.84					
				5.64	7.41				
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									
2/21/2017									
2/24/2017	5.49	6.39							
212412011	J. <del>4</del> 3	0.03							

2/27/2017	YGWA-47 (bg)	YGWC-43	YGWC-49 5.68	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWA-40 (bg)	YGWC-41
			3.00	F 00					
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								
	3.36		C 10	6.2					
5/9/2017		0.5	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				0.00	6.99				
10/4/2017					0.55				
10/5/2017				E 54					
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			5.57	1.70	5.04	0.01
6/5/2018		J 1	0.00						
0/3/2010									

	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		0.00	0.07			5.81	4.67	5.14	4.78
9/25/2018						0.01	4.07	0.14	4.70
9/26/2018				5.53					
9/27/2018				3.33					
10/1/2018					7.07				
					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		==							<del>-</del> :
3.23.2020									

	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									

	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									
		F 0	2.0						
9/13/2016	0.0	5.2	2.9	10			4.0	7.5	
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				10			1.5	8.1	
1/16/2017		7.9			<1			0.1	
1/17/2017		7.9			~1				
					1.4				
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	

5/2/2017	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-5I (bg) 2	YGWA-4I (bg)	YGWA-3D (bg)
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

	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)	7.0			7.2
4/2/2019	0.0				0.00 (0)				7.2
				7			0.1	0.5	
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	2.0		Ů	2.0	7.8	7
3/4/2021	5.5							7.0	•
8/19/2021		4.9	8.9		1	6.7			7.5
8/20/2021		4.5	0.5		•	0.7			7.5
8/25/2021									
				c			2.4	0.5	
8/26/2021 8/27/2021	18.2			6			2.4	8.5	
	10.2								
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									

	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				0.00 (0)		68	0.38 (J)		
11/1/2016							0.00 (0)		
11/2/2016				0.1 (J)					
11/3/2016	1.9	0.69 (J)	5.3	0.1 (0)	5				
11/4/2016	1.5	0.00 (0)	0.0		· ·				
11/8/2016						79	0.39 (J)		
11/14/2016						75	0.55 (5)		150
11/15/2016									100
11/16/2016								940	
11/28/2016								340	
12/15/2016									
1/10/2017									
1/11/2017	1.7	<1	5.2						
1/12/2017	1.7		0.2						
1/13/2017				<1	4.3				
1/16/2017					4.0	72			
1/17/2017						,_	<1		
2/21/2017							-1		
2/22/2017									
2/24/2017									120
2/27/2017								940	120
2/28/2017								540	
3/1/2017	<1	1.8							
3/2/2017		1.0	5						
3/3/2017			Ü						
3/6/2017				<1	4.5				
3/7/2017				•					
3/8/2017							0.29 (J)		
3/9/2017						69	5.20 (0)		
4/26/2017	1.9	1.6		<1	4.9	55			
4/27/2017				•					
4/28/2017									
5/1/2017									

	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	0.0	•			<1		
10/6/2017		1.0							
10/10/2017									93
10/11/2017						52			33
						32		1100	
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									

	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								001	00.0
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	0.00 (0)		0.4		•			642	
						26 F	. <del>1</del>	042	
3/26/2020						36.5	<1		54.5
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 (1)	4.0	<1	3.9				30.9
	1.1	0.51 (J)	4.8	<b>\</b> 1	3.9	70.7	-4	405	
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)		

		GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWC-38	YGWA-40 (bg)
6/1/20	16									
6/2/20	16									
6/6/20	16									
6/7/20										
6/8/20										
7/25/2										
7/26/2										
7/27/2										
7/28/2										
8/1/20										
8/30/2										
8/31/2		29	34							
9/1/20		20	04	95						
9/2/20				30	72					
9/13/2					72					
9/14/2						9.4				
9/15/2						5.4				
9/16/2										
9/19/2										
9/20/2										
11/1/2										
11/2/2										
11/3/2						10				
11/4/2						13				
11/8/2										
11/14/					110					
11/15/				94						
11/16/			240							
11/28/		36								
12/15/						1.8				
1/10/2										
1/11/2										
1/12/2										
1/13/2										
1/16/2						11				
1/17/2										
2/21/2										
2/22/2		43								
2/24/2			89							
2/27/2				84						
2/28/2					110					
3/1/20										
3/2/20										
3/3/20						8.8				
3/6/20										
3/7/20										
3/8/20										
3/9/20										
4/26/2										
4/27/2										
4/28/2						10				
5/1/20	17									

	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	2 = (-9)				(-3)	(-9)			(-3)
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				.00	7.9				
10/4/2017					7.0				
10/5/2017									
10/6/2017				160					
10/10/2017				.00					
10/11/2017			86	150		20			
10/12/2017		120		.00		20	400	940	17
10/16/2017	62	120					400	040	,,
11/20/2017	02					24		980	71
11/21/2017						24	430	500	, ,
1/10/2018							400		66
1/11/2018						23	390		
1/12/2018						20	555	880	
2/19/2018	64.6						414	000	57.2
2/20/2018	04.0					20.6		905	07.E
4/2/2018									
4/3/2018						24.5	406	872	49.4
4/4/2018		160	76.5			20		0,2	
6/5/2018		.00	7 0.0						
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				

	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			00	04.0					
10/8/2019	128								
10/9/2019	120	279				15	263	708	27.9
	09.6	2/9				15	203	708	27.9
3/17/2020	98.6								
3/18/2020					10.4				
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									

	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			<b>5</b> 4	177		04	70	52	171
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		00					75		
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		٠.							***
3/6/2017								159	
				257			100	100	
3/7/2017				257		170	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	

	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	
10/1/2018	138	60	117			50			165
10/1/2010	100	00				00			100

	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	.0 (0)				· ·				
4/3/2019				142			83	111	
4/4/2019				172			00		
6/12/2019									
9/24/2019		54	124	129			79		
9/24/2019	159	54	124	129	51	64	79	117	157
9/26/2019	159				51	04		117	157
9/27/2019									
10/8/2019									
10/9/2019									
3/17/2020		0.5							
3/18/2020	140	35	110		47	57			140
3/19/2020	148		116	100	47		00		146
3/24/2020				139			68	140	
3/25/2020								146	
3/26/2020				104			75	00	
9/22/2020	155	45	100	104			75	83	457
9/23/2020	155	15	108		54				157
9/24/2020					51	<b>5.4</b>			
9/25/2020						54			
10/7/2020					00				
3/1/2021				50	23	07	07		
3/2/2021	444	20	00	52		67	67	00	107
3/3/2021	111	39	99					80	137
3/4/2021		44	105		50	<b>54</b>			444
8/19/2021		44	105		50	54			144
8/20/2021									
8/25/2021				100			00	00	
8/26/2021	455			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
	145	57	105	107		50	77		154
2/10/2022				127		56	77	100	
2/11/2022			110	140	66		00	102	
8/30/2022	107	40	116	148	22	F4	86	00	444
8/31/2022	137	46			33	51		92	141
9/1/2022		101	101	100					
2/7/2023	145	121	131	180	42	EG			144
2/8/2023	145				43	56	F0	104	144
2/9/2023							59	124	
2/10/2023									

		)/O)M/A 100 (b-c)	VOMA 101 (b)	)/O)M/A 170 (b =)	VOMA 200 (b =)	VOMA 241 (b =)	VOWO 220	VOWO 240D	VOWO 40	VOIA/A 47 /b\
0.11	1/0010	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
	1/2016									
	2/2016									
	5/2016	58	120							
	7/2016			28	38	60	130			
	3/2016							66		
	25/2016									
	26/2016									
7/2	27/2016	35	94	74	74					
7/2	28/2016					81	119			
8/1	1/2016							56		
8/3	30/2016								1650	319
8/3	31/2016									
9/1	1/2016									
9/2	2/2016									
9/1	13/2016									
9/1	14/2016									
9/1	15/2016									
9/1	16/2016	35		67						
9/1	19/2016		92		45	68				
9/2	20/2016						132	53		
11/	/1/2016									
	/2/2016				53					
	/3/2016	48	104	41		61				
	/4/2016									
	/8/2016						146	58		
	/14/2016									280
	/15/2016									
	/16/2016								1420	
	/28/2016									
	/15/2016									
	10/2017									
	11/2017	95	133	104						
	12/2017	55	100	104						
	13/2017				46	76				
	16/2017				40	70	194			
	17/2017						194	EC		
								56		
	21/2017									
	22/2017									160
	24/2017 27/2017								1040	162
									1640	
	28/2017	70	110							
	1/2017	79	119							
	2/2017			77						
	3/2017									
	5/2017				164	167				
	7/2017									
	3/2017							192		
	9/2017						288			
	26/2017	36	162		34	50				
	27/2017									
	28/2017									
5/1	1/2017									

	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									100
4/2/2018									192
4/3/2018 4/4/2018								1500	
6/5/2018					109			1520	
6/6/2018				79	109				
6/7/2018		68		75					
6/8/2018		00							
6/11/2018	74		70						
6/12/2018	74		70			115	79		
6/13/2018						113	75		
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									

		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									
2/2	25/2019									
3/2	26/2019									
	27/2019								1100	170
	28/2019									
	29/2019									
	1/2019									
	2/2019			72		134				
		60	00	72	F.7	134				
	3/2019	63	89		57		0.5	62		
	1/2019						85	63		
	12/2019									
	24/2019					157				
	25/2019			81	75					
	26/2019	72	126					81		
9/2	27/2019						96			
10	/8/2019									172
10	/9/2019								1170	
3/1	17/2020									165
3/1	18/2020									
3/1	19/2020									
3/2	24/2020	59	91	71	76	117				
3/2	25/2020								1200	
3/2	26/2020						110	67		
9/2	22/2020									141
9/2	23/2020	81	103	99				87		
	24/2020				69	113	129		1060	
	25/2020									
	/7/2020									
	1/2021									145
	2/2021									
	3/2021	37	95	57	53			70		
	1/2021	37	55	37	55	110	96	70	501	
	19/2021					110	30		301	124
										134
	20/2021						444		000	
	25/2021						141		886	
	26/2021	31								
	27/2021		112	93	67					
	1/2021					137		96		
	3/2021									
	27/2021									
	3/2022									151
2/9	9/2022	60	103	81	72	131				
2/1	10/2022						180	78	882	
2/1	11/2022									
8/3	30/2022	52	100	81		122				
8/3	31/2022				62					116
9/1	1/2022						191		934	
2/7	7/2023	55	96	78	89	163				
2/8	3/2023						158		853	141
2/9	9/2023									
	10/2023							66		

	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	STT (2 (Dg)	. 3110 -10	. 3110 10	. 3110 007	. 3777 21 (bg)	. 311/1 00 (bg)	. 3.1.0 -1	. 3110 00	. 3.77 70 (09)
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	000	00							
8/31/2016	209	80							
9/1/2016			228	0.40					
9/2/2016				243					
9/13/2016					150				
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									

		GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWC-38	YGWA-40 (bg)
5/2/2	2017									
5/8/2	2017	145								
5/9/2	2017			154	303					
5/10	0/2017		203							
5/26	6/2017					223				
6/27	7/2017									
6/28	3/2017					166				
6/29	9/2017									
6/30	0/2017									
	2017									
7/10	0/2017									
	1/2017		238							
	3/2017			192	282					
	7/2017	185								
	2/2017				309					
	9/2017				273					
	3/2017				270	153				
	1/2017									
	5/2017									
	6/2017				287					
	10/2017				207					
	11/2017			177	264		68			
	12/2017		287	177	204		00	636	1360	74
	16/2017	218	207					030	1300	74
		210					120		1200	170
	20/2017						139	700	1390	179
	21/2017							706		140
	0/2018						450	704		140
	1/2018						153	701	1100	
	2/2018								1400	
	9/2018	173					0.7	630	1000	119
	0/2018						87		1300	
	2018									
	2018						85	660	1390	106
	2018		292	174						
	2018									
	2018									
	2018					146				
	2018									
	1/2018									
	2/2018									
	3/2018				292					
	7/2018							575		
	3/2018						88		1310	112
	2018	158								
	2018						89	574	1340	103
	9/2018									
	0/2018		434	186						
	1/2018						82	588	1400	107
	5/2018									
	5/2018				277					
	7/2018									
10/1	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			240					
	220				146				
9/24/2019					146				
9/25/2019			100	100					
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	2.0	220	552	
9/1/2021			163						
9/3/2021			100	89					88
9/27/2021		158		-					00
2/8/2022	283		164			248	226		93
2/9/2022	200	۷.74	104		156	270	220		J.J
					150			541	
2/10/2022				0.1				J4 I	
2/11/2022	244			81	150				
8/30/2022	244		007		153	0.40			00
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

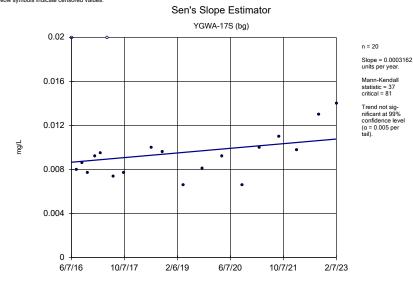
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/26/2023, 11:26 AM Constituent Calc. Critical Sig. <u>N</u> <u>%NDs</u> <u>Normality</u> <u>Xform</u> <u>Alpha</u> Method YGWA-39 (bg) 0.0181 75 63 17 5.882 n/a NP Boron (mg/L) Yes 0.01 n/a Boron (mg/L) YGWA-40 (bg) -0.01412 -91 -63 Yes 17 0 n/a n/a 0.01 NP YGWC-38 NP Boron (ma/L) -3.533 -114 -63 17 0 0.01 Yes n/a n/a Boron (mg/L) YGWC-41 -2.235 -96 -63 17 0 0.01 NP YGWC-42 NP Boron (mg/L) -1.379 -63 17 0 -87 Yes n/a n/a 0.01 YGWC-43 0.506 86 63 17 0 0.01 NΡ Boron (mg/L) YGWA-47 (bg) NP Boron (mg/L) -0.0007791 -66 -63 Yes 17 0 n/a n/a 0.01 Calcium (mg/L) YGWA-17S (bg) 0 ΝP 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 n/a 0.01 ΝP NP Calcium (mg/L) YGWA-39 (bg) 1.642 69 63 Yes 17 0 n/a n/a 0.01 Calcium (mg/L) YGWA-5D (bg) -1.44 -101 20 0 0.01 NP Yes n/a n/a 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 Yes 17 n/a 0.01 ΝP 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 17 5.882 NP Yes n/a 0.01 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 0.01 NP n/a n/a n/a Calcium (mg/L) YGWA-1I (bg) -0.08713 -95 -81 Yes 20 0 0.01 NP Sulfate (mg/L) YGWA-18I (bg) -0.1242 -93 -81 20 20 n/a n/a 0.01 NP Yes Sulfate (mg/L) YGWA-39 (bg) -2.618 -90 -63 Yes 17 0 n/a n/a 0.01 NP YGWA-40 (bg) -8.078 NP Sulfate (mg/L) -103 -63 Yes 17 0 n/a 0.01 n/a YGWA-5D (bg) -2.638 -81 20 0 ΝP 0 NP Sulfate (mg/L) YGWA-5I (bg) 0.1006 134 81 Yes 20 n/a n/a 0.01 Sulfate (mg/L) YGWC-38 -141.8 -125 -63 17 0 n/a 0.01 NΡ Sulfate (mg/L) YGWC-42 -98.05 -101 -63 17 0 0.01 NP Yes n/a n/a YGWA-47 (bg) -121 17 ΝP Sulfate (mg/L) 0 0.01 NP Sulfate (mg/L) GWA-2 (bg) 14.48 88 68 Yes 18 0 n/a n/a 0.01 Sulfate (mg/L) YGWA-1D (bg) 0.9678 140 81 Yes 20 0 n/a n/a 0.01 YGWA-3D (bg) Sulfate (mg/L) 0.3151 105 81 Yes 20 0 n/a n/a 0.01 NP Sulfate (mg/L) YGWA-3I (bg) 0.9326 Yes 20 0 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 0.01 NΡ n/a 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 -100 -63 17 0 NP -191 Yes n/a n/a 0.01 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 NΡ Total Dissolved Solids (mg/L) YGWA-47 (bg) -13.38 -63 17 0 NP -101 Yes n/a n/a 0.01

# Appendix III Trend Tests - All Results

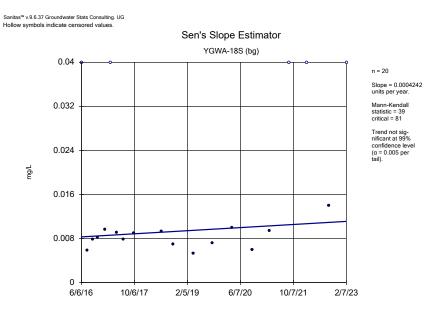
Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/26/2023, 11:26 AM Constituent Calc. Critical Sig. N %NDs Normality Xform <u>Alpha</u> Method YGWA-17S (bg) 0.0003162 37 81 No 20 10 0.01 NP Boron (mg/L) n/a n/a Boron (mg/L) YGWA-18I (bg) 0 -18 -81 No 20 80 n/a n/a 0.01 NP 0.0004242 NP Boron (ma/L) YGWA-18S (ba) 39 81 25 0.01 No 20 n/a n/a Boron (mg/L) YGWA-20S (bg) 0 -7 -81 No 20 90 0.01 NP YGWA-21I (bg) 0 -81 20 60 0.01 NP Boron (mg/L) -48 No n/a n/a YGWA-39 (bg) 0.0181 75 63 17 NP Boron (mg/L) Yes 5.882 n/a 0.01 YGWA-40 (bg) -0.01412 0 NP Boron (mg/L) -91 -63 Yes 17 n/a n/a 0.01 Boron (mg/L) YGWA-4I (bg) 0 No 20 70 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 No 20 65 n/a n/a 0.01 NP NP Boron (mg/L) YGWC-23S 0.01895 15 81 No 20 0 n/a n/a 0.01 Boron (mg/L) YGWC-38 -3.533 -114 -63 17 0 0.01 NP Yes n/a n/a YGWC-41 Boron (mg/L) -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 YGWA-47 (bg) -0.0007791 -66 -63 17 0 NP Boron (mg/L) Yes n/a 0.01 n/a 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 0 NP Boron (mg/L) YGWA-30I (bg) -16 -81 No 20 0.01 85 n/a n/a YGWA-3D (bg) 0 8 81 No 20 60 0.01 NΡ Boron (mg/L) 0 NP Boron (mg/L) YGWA-3I (bg) -15 -81 No 20 90 n/a n/a 0.01 Calcium (mg/L) YGWA-17S (bg) 0.137 126 81 Yes 20 0 n/a 0.01 NΡ Calcium (mg/L) YGWA-18I (bg) 0.06151 41 81 0 0.01 NP No 20 n/a n/a -0.07974 NP Calcium (mg/L) YGWA-18S (bg) -131 -81 Yes 20 0 n/a n/a 0.01 0.03077 YGWA-20S (bg) 20 0 NP 57 81 No 0.01 Calcium (mg/L) n/a n/a Calcium (mg/L) YGWA-21I (bg) 0.7925 98 81 Yes 20 0 n/a 0.01 NP n/a YGWA-39 (bg) Calcium (mg/L) 1.642 69 63 Yes 17 0 n/a n/a 0.01 NP Calcium (mg/L) YGWA-40 (ba) -0.5174 -42 -63 No 5.882 n/a 0.01 NP 0.09322 0 Calcium (mg/L) YGWA-4I (bg) 24 81 Nο 20 n/a n/a 0.01 NP Calcium (mg/L) YGWA-5D (bg) -1.44 -101 -81 Yes 20 0 n/a 0.01 NP n/a Calcium (mg/L) YGWA-5I (bg) 0.06857 92 81 Yes 20 0 n/a n/a 0.01 NP YGWC-38 -27.66 -122 -63 17 0 NP Calcium (mg/L) Yes n/a n/a 0.01 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 ΝP Calcium (mg/L) GWA-2 (bg) 2.992 85 68 Yes 18 5.556 n/a n/a 0.01 NP 0 NP Calcium (mg/L) YGWA-14S (bg) 81 No 20 0 0.01 n/a n/a Calcium (mg/L) YGWA-1D (bg) 0.5761 98 81 Yes 20 0 n/a 0.01 NP n/a NP Calcium (mg/L) YGWA-1I (bg) -0.08713 -95 -81 Yes 20 0 n/a n/a 0.01 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 (ba) 0.01674 45 81 20 0 0.01 NP No n/a n/a 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 (ba) 0.5034 67 0 NP 81 No 20 0.01 n/a n/a YGWA-17S (bg) 0.02875 23 20 0 NP Sulfate (mg/L) No 0.01 -0.1242 20 NP Sulfate (mg/L) YGWA-18I (bg) -93 -81 Yes 20 n/a n/a 0.01 Sulfate (mg/L) YGWA-18S (bg) -0.1096 -55 -81 No 20 10 0.01 NΡ n/a Sulfate (mg/L) YGWA-20S (bg) 0 48 81 No 70 0.01 NP 20 n/a n/a -0.2092 NP Sulfate (mg/L) YGWA-21I (bg) -55 -81 No 20 0 n/a n/a 0.01 -2.618 NP Sulfate (mg/L) YGWA-39 (bg) -90 -63 Yes 17 0 n/a n/a 0.01 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 20 0 n/a n/a 0.01 ΝP Yes 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

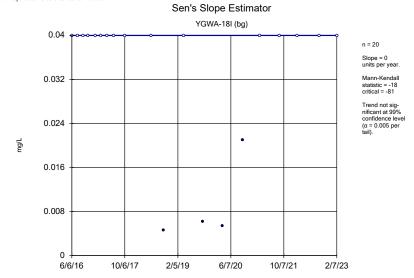
Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/26/2023, 11:26 AM Plant Yates Constituent Calc. Critical Sig. N <u>%NDs</u> <u>Normality</u> <u>Xform</u> <u>Alpha</u> Method YGWC-38 -141.8 -125 -63 17 0 NP Sulfate (mg/L) Yes 0.01 n/a n/a Sulfate (mg/L) YGWC-42 -98.05 -101 -63 Yes 17 0 n/a n/a 0.01 NP YGWC-43 47 NP Sulfate (mg/L) 18.06 63 17 0 0.01 No n/a n/a Sulfate (mg/L) YGWA-47 (bg) -15.39 -121 -63 17 0 0.01 NP GWA-2 (bg) NP Sulfate (mg/L) 14.48 68 18 0 88 Yes n/a n/a 0.01 Sulfate (mg/L) YGWA-14S (bg) -0.02207 -14 -81 No 20 0 n/a n/a 0.01 NP YGWA-1D (bg) 0.9678 NP Sulfate (mg/L) 140 81 Yes 20 0 n/a n/a 0.01 Sulfate (mg/L) YGWA-1I (bg) -0.04757 -81 No 0 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 No 20 10 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 20 0 0.01 NP Yes n/a n/a Total Dissolved Solids (mg/L) YGWA-17S (bg) 2.621 20 0 NP 47 81 No n/a n/a 0.01 Total Dissolved Solids (mg/L) YGWA-18I (bg) -1.319 -26 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 0.01 NP n/a n/a 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 17 0 0.01 NP Yes n/a n/a 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 NΡ Total Dissolved Solids (mg/L) YGWA-5D (bg) -11.59 -90 -81 Yes 20 0 n/a n/a 0.01 NP YGWA-5I (bg) NP Total Dissolved Solids (mg/L) -0.8043 -16 -81 No 20 0 n/a 0.01 n/a Total Dissolved Solids (mg/L) YGWC-38 -191 -100 -63 17 0 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 17 0 n/a 0.01 NΡ Total Dissolved Solids (mg/L) YGWC-43 57.74 76 63 17 0 0.01 NP Yes n/a n/a Total Dissolved Solids (mg/L) YGWA-47 (bg) -101 -63 17 0 NP Yes n/a Total Dissolved Solids (mg/L) GWA-2 (bg) 68 0 NP 17.72 66 18 0.01 No n/a n/a Total Dissolved Solids (mg/L) YGWA-14S (bg) 0.3652 16 No 20 0 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) -18 No 20 0 n/a n/a 0.01 NP Total Dissolved Solids (mg/L) 0 YGWA-2I (bg) -0.8152 -19 -81 No 20 n/a n/a 0.01 NP Total Dissolved Solids (mg/L) NP YGWA-30I (bg) 1.488 24 81 No 20 10 n/a 0.01 n/a YGWA-3D (bg) Total Dissolved Solids (mg/L) 81 0 0.01 NP 0.3218 No 20 n/a n/a Total Dissolved Solids (mg/L) 0.01 NP YGWA-3I (bg) 0.862 No 20 0 n/a n/a



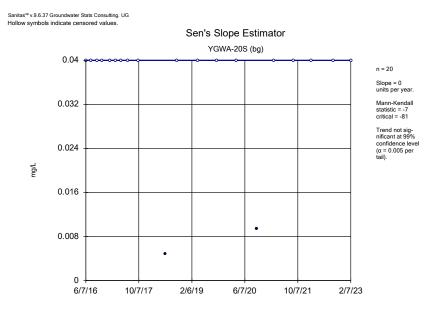
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



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

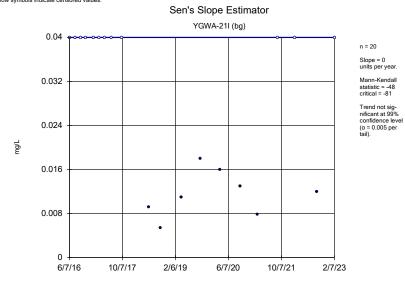


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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

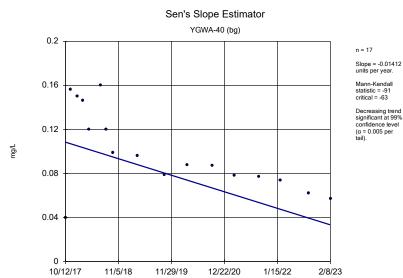


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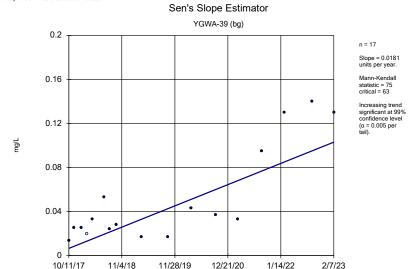
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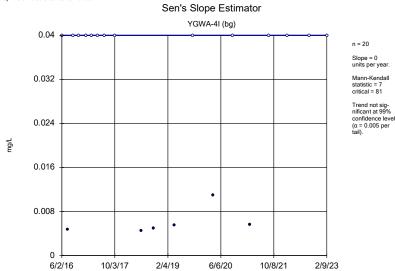


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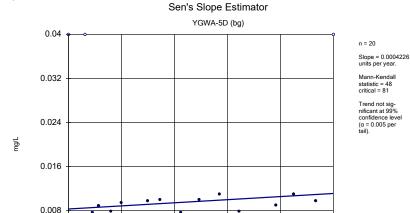
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6





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



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

6/5/20

10/6/21

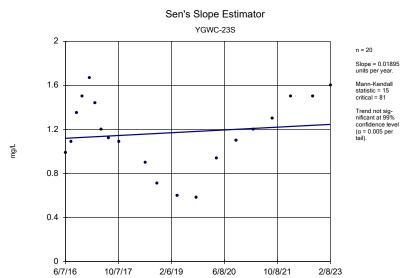
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2/3/19

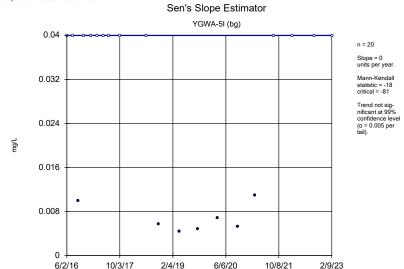
# Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

6/2/16

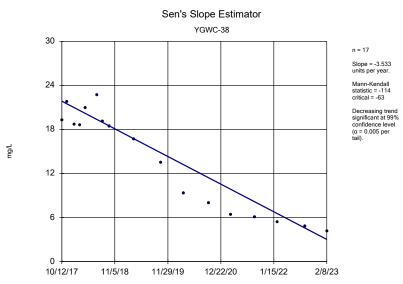
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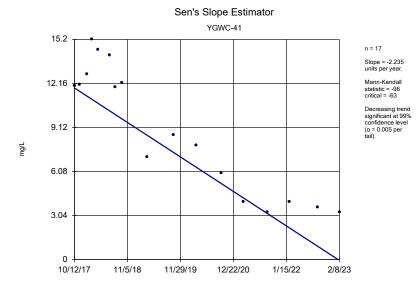


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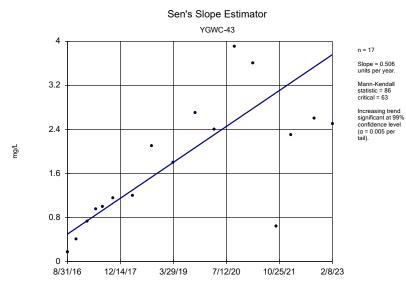


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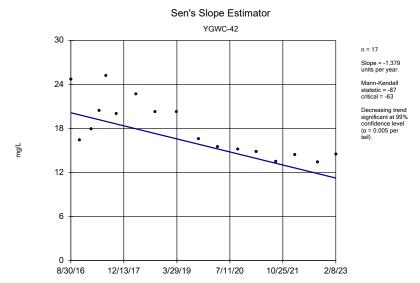
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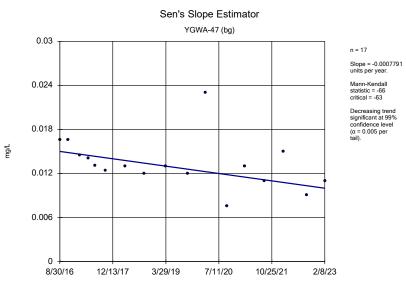
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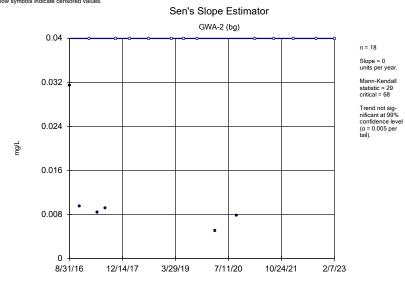
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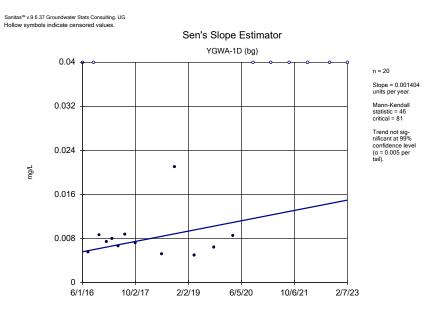
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



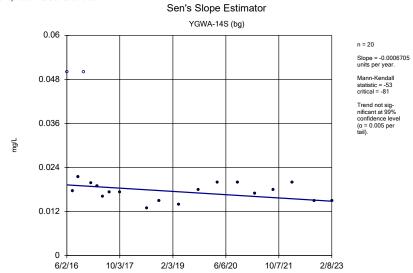
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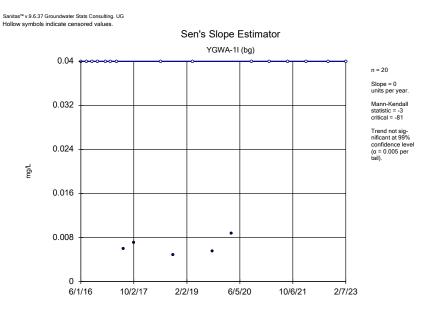
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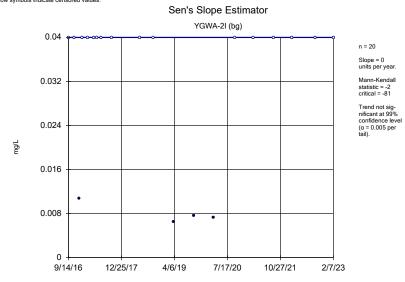
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



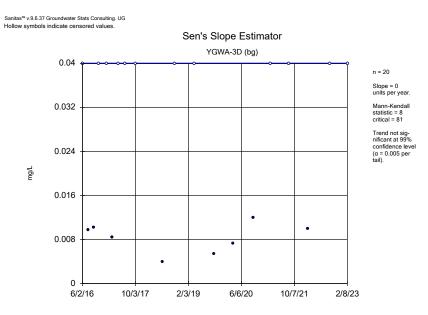
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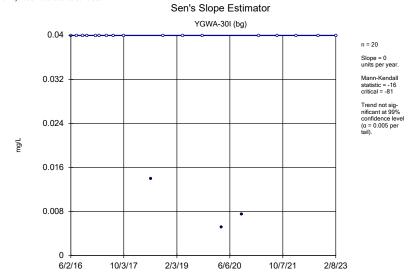
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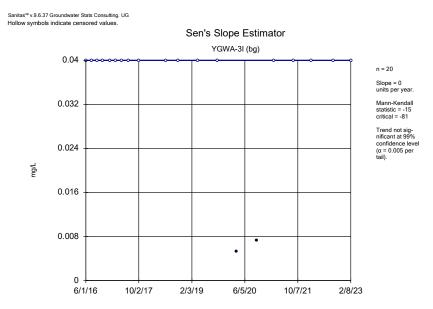
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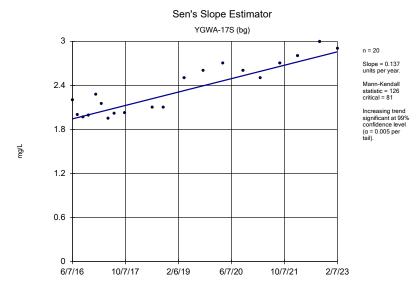


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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

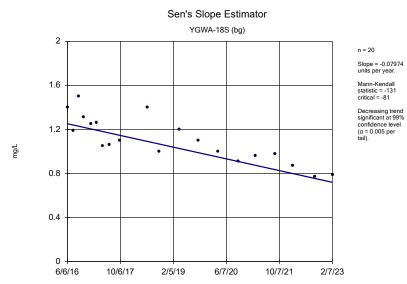


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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

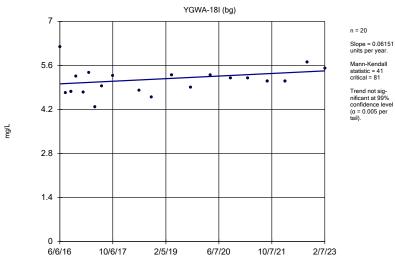


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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

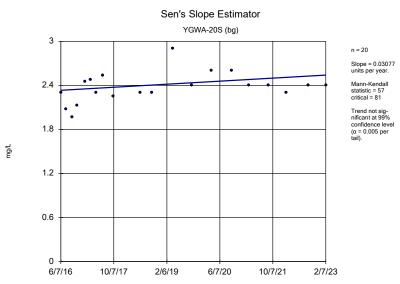


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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

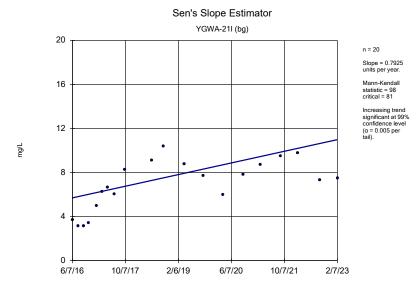
# Sen's Slope Estimator



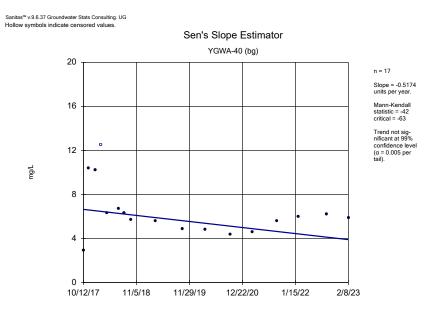
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



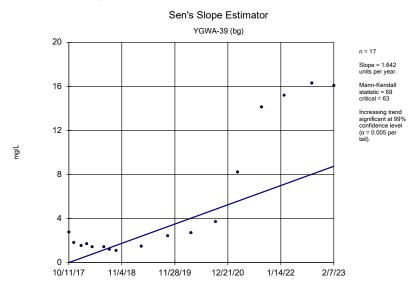
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



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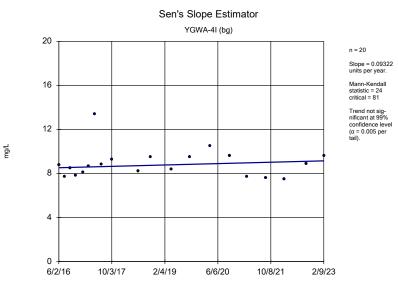


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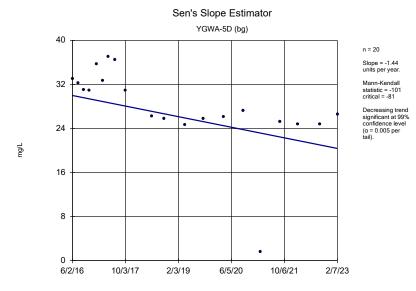


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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



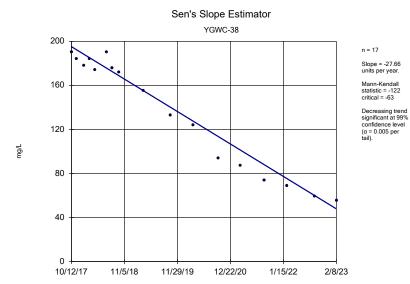


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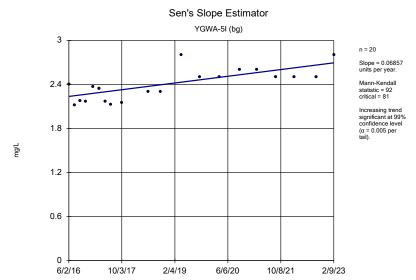


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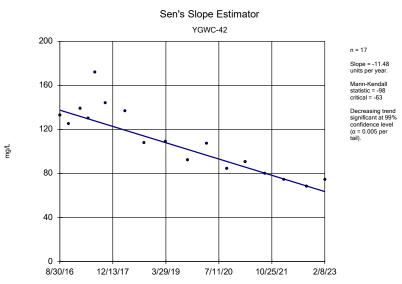




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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

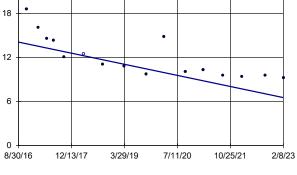


Slope = -1.172 units per year. Mann-Kendall

Mann-Kendall statistic = -111 critical = -63

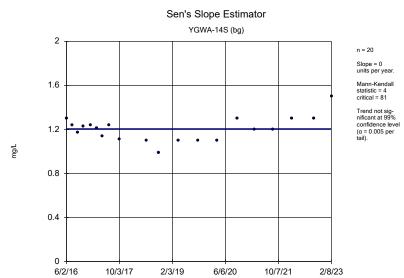
Decreasing trend significant at 99% confidence level ( $\alpha = 0.005$  per tail).

mg/L

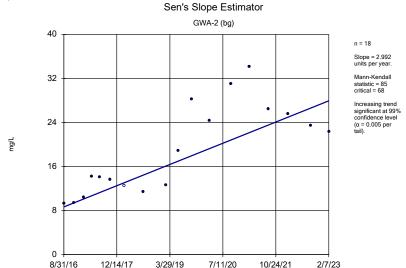


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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

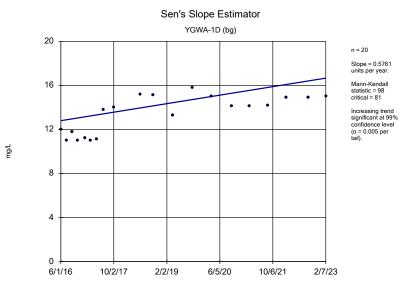
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG



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



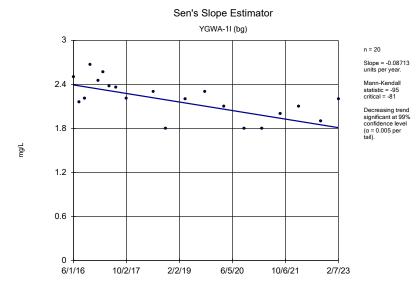
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Calcium Analysis Run 4/26/2023 11:24 AM View: Appendix III - Trend Tests

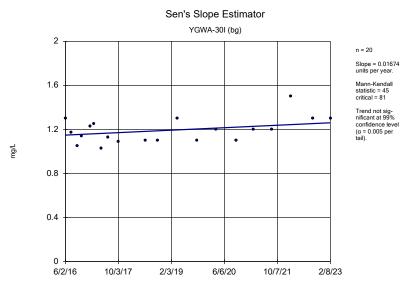
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

mg/L



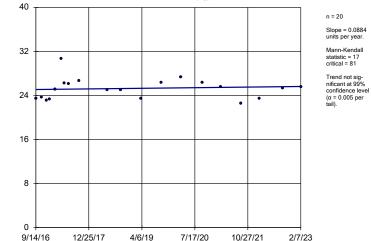
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# Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG



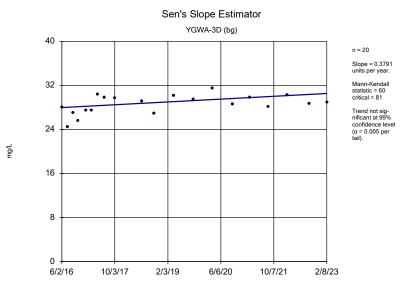
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# YGWA-2I (bg)

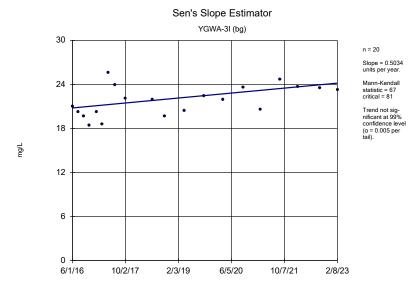


Sen's Slope Estimator

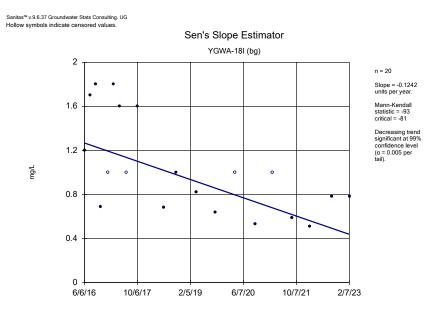
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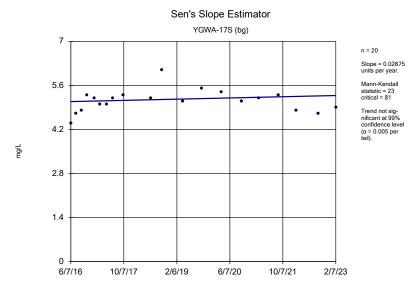
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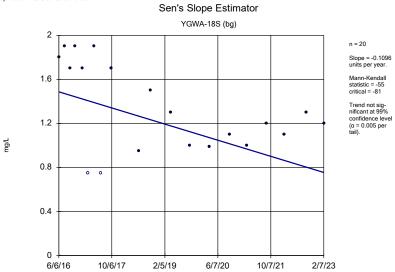


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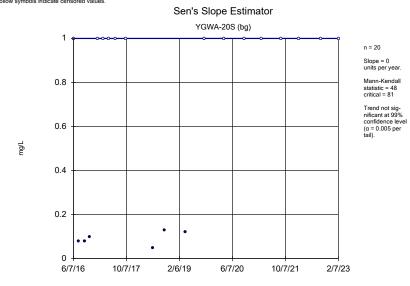


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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

# Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

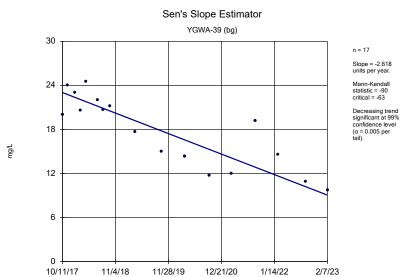


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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

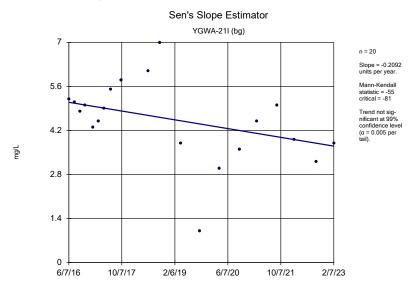


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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

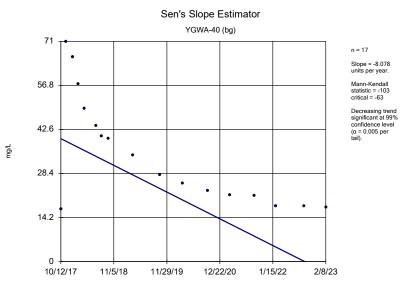




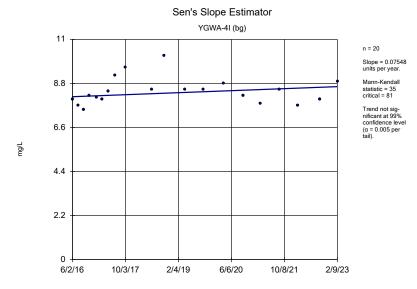
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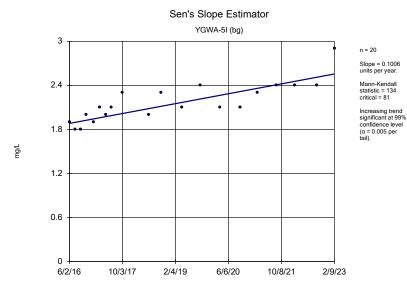
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



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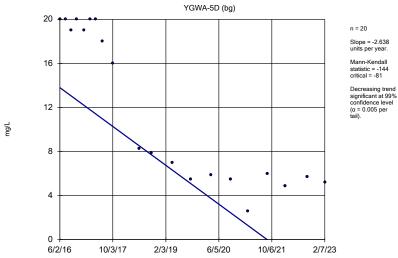


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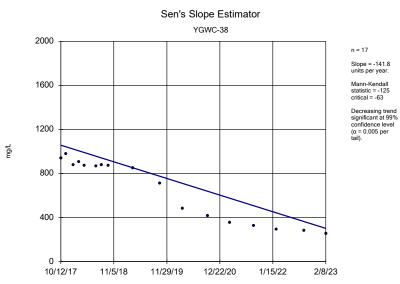
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

# Sen's Slope Estimator



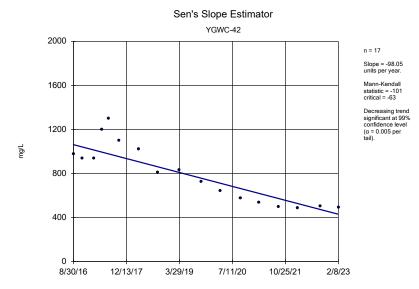
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

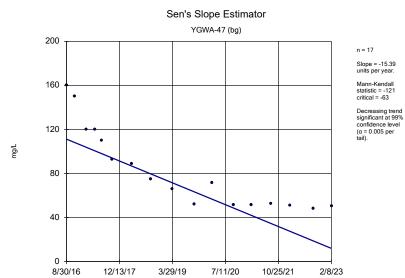


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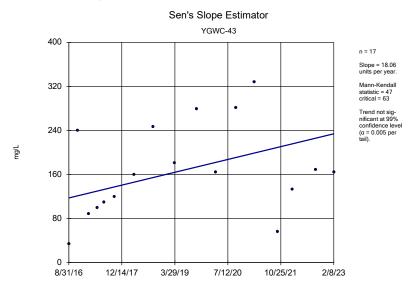
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



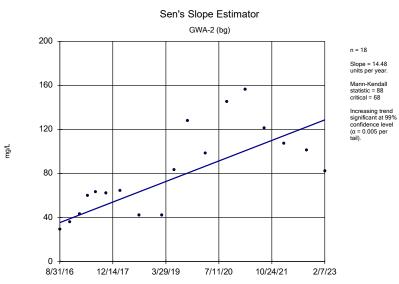
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



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

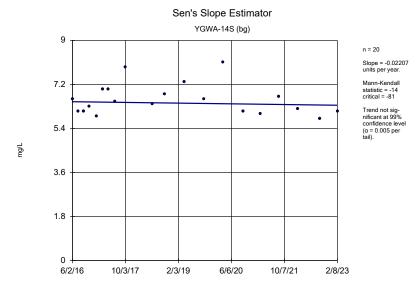


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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

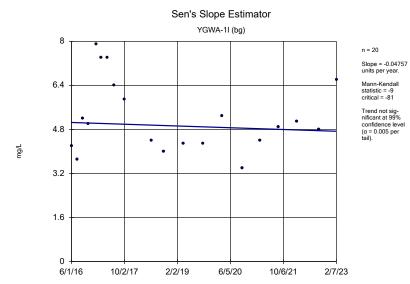


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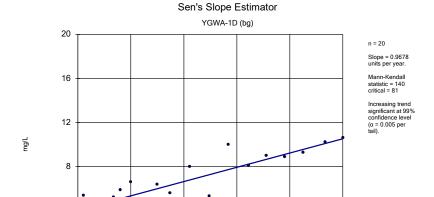
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



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



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



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

6/5/20

2/2/19

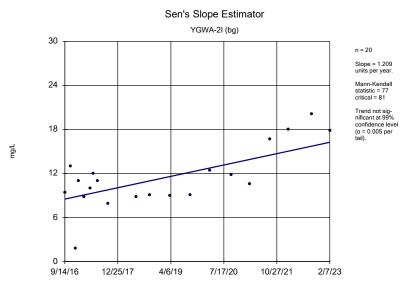
2/7/23

10/6/21

# Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

6/1/16

10/2/17

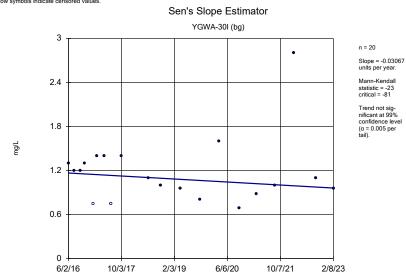


Constituent: Sulfate Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

6/1/16

10/2/17



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 9% confidence level (a = 0.005 per tail).

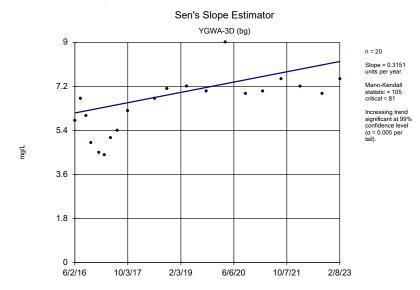
2/3/19

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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

6/5/20

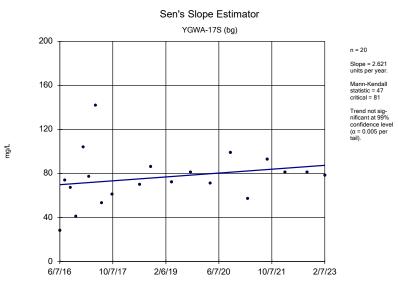
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2/8/23

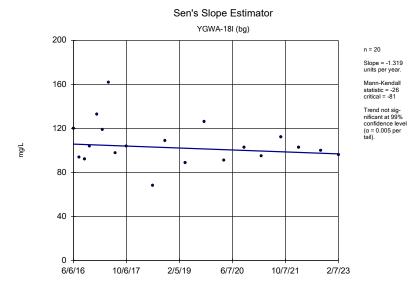


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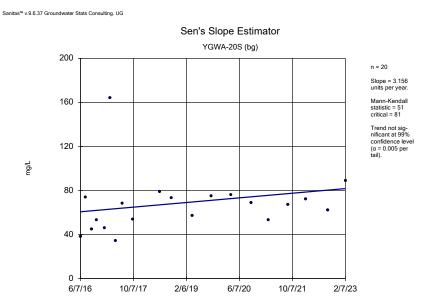
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



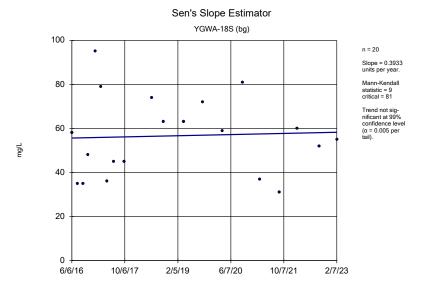
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



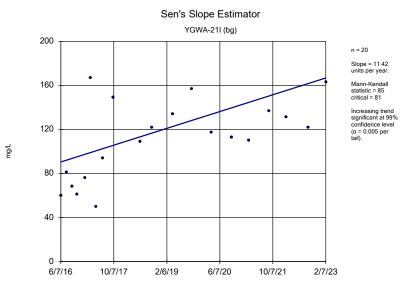
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



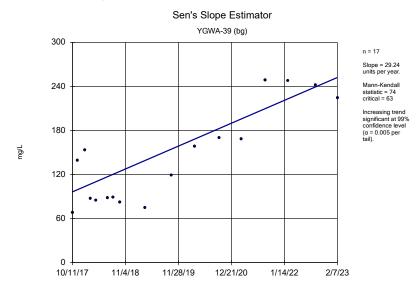
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



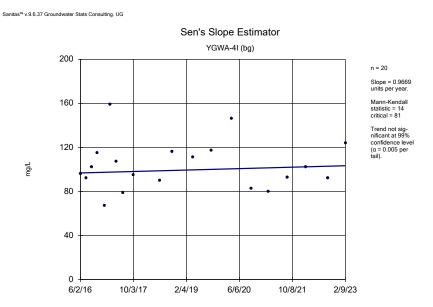
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



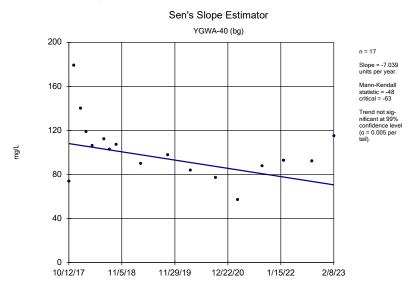
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



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

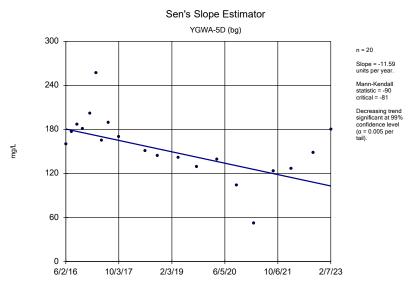


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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

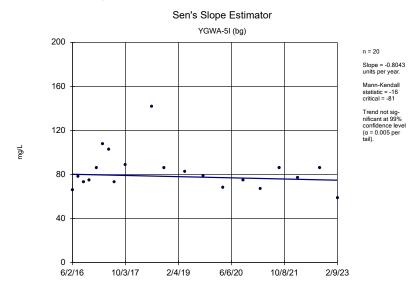


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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6





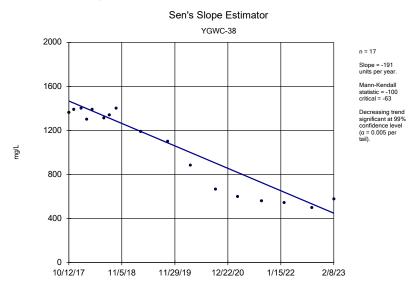
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



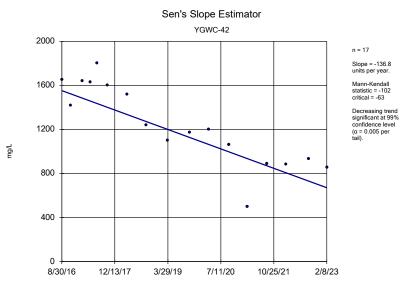
Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

# Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG Sen's Slope Estimator YGWC-41 800 n = 17 Slope = -106.7 units per year. 640 Mann-Kendall critical = -63 Decreasing trend significant at 99% confidence level 480 $(\alpha = 0.005 per$ mg/L 320 160 10/12/17 11/5/18 11/29/19 12/22/20 1/15/22 2/8/23

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

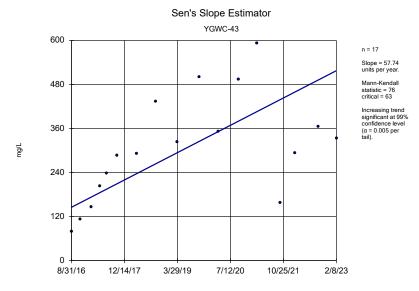


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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

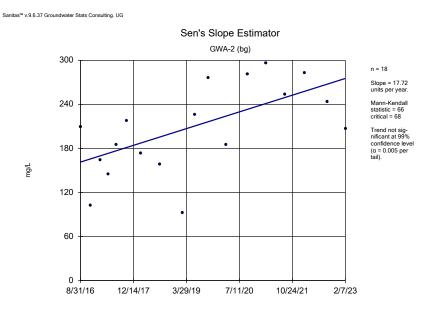


Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests

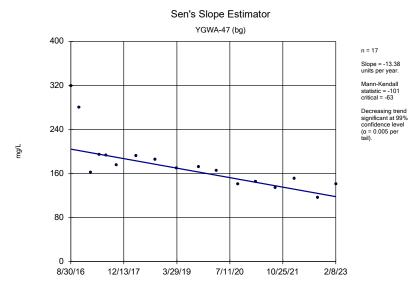
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



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

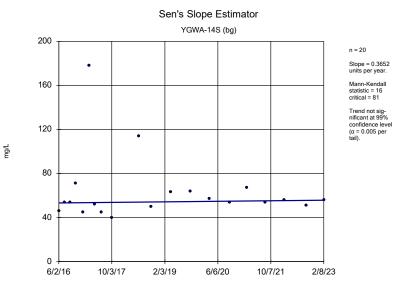


Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

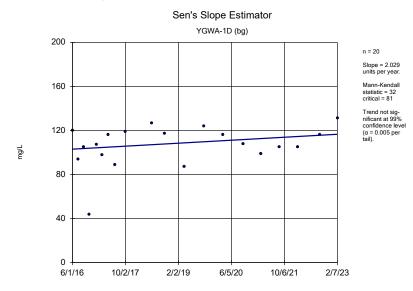


Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

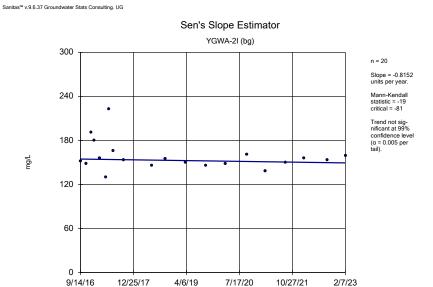




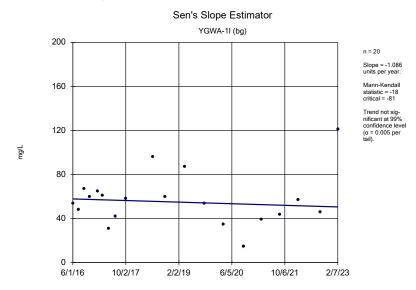
Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



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

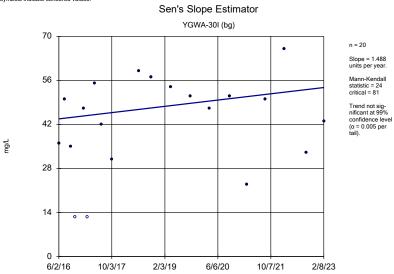


Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

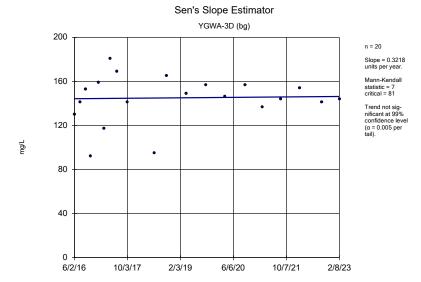


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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

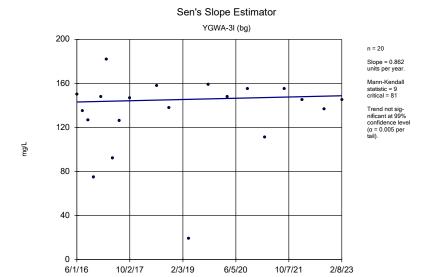




Constituent: Total Dissolved Solids Analysis Run 4/26/2023 11:25 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



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



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 %NDs ND Adj. Constituent <u>Well</u> Upper Lim. Lower Lim. <u>Date</u> Observ. Sig.Bg N Bg Mean Std. Dev. Transform Alpha Method 0.0047 n/a 391 n/a 87.98 n/a Antimony (mg/L) n/a n/a n/a n/a n/a n/a NaN NP Inter(NDs) 0.005 n/a 439 n/a 74.72 n/a NP Inter(NDs) Arsenic (mg/L) n/a n/a n/a n/a n/a n/a NaN Barium (mg/L) 0.21 n/a 439 n/a 2.506 n/a NaN NP Inter(normality) n/a n/a n/a n/a n/a n/a Beryllium (mg/L) 0.0011 n/a n/a 423 n/a 79.43 n/a NaN NP Inter(NDs) 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 391 n/a 80.05 n/a n/a NaN Cobalt (mg/L) 0.035 n/a 433 n/a NP Inter(NDs) 69.05 n/a NaN n/a n/a n/a n/a n/a n/a Combined Radium 226 + 228 (pCi/L) 6.92 n/a 418 n/a 0 NaN NP Inter(normality) 0.68 n/a 438 n/a 64.16 n/a NaN NP Inter(NDs) Fluoride (mg/L) n/a n/a n/a n/a n/a n/a Lead (mg/L) n/a 0.0013 n/a 393 n/a 86.01 n/a NaN NP Inter(NDs) 0.03 NP Inter(normality) Lithium (mg/L) n/a 418 n/a 25.84 n/a NaN n/a n/a n/a n/a n/a Mercury (mg/L) n/a 0.00064 n/a 347 n/a 91.93 n/a NaN NP Inter(NDs) 0.014 n/a 382 n/a NP Inter(NDs) Molybdenum (mg/L) 60.99 n/a NaN n/a n/a n/a n/a n/a n/a Selenium (mg/L) n/a 0.005 n/a 421 n/a 92.64 n/a NaN NP Inter(NDs)

n/a 357 n/a

97.2 n/a

n/a

NaN

n/a

NP Inter(NDs)

Thallium (mg/L)

0.001

n/a

n/a

n/a

n/a

# FIGURE G.

YATES AMA-R6 GWPS											
	CCR-Rule Background										
Constituent Name	MCL	Specified	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							

<sup>\*</sup>Grey cell indicates Background Limit is higher than MCL or CCR Rule Specified Level

<sup>\*</sup>MCL = Maximum Contaminant Level

<sup>\*</sup>CCR = Coal Combustion Residual

<sup>\*</sup>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.	<u>N</u>	<u>Mean</u>	Std. Dev.	%ND	s ND Adj.	Transform	<u>Alpha</u>	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 )	P7-37	0 2801	0.2029	0.05	Yes	15	0 2415	0.05697	0	None	No	0.01	Param

# Confidence Intervals - All Results

Client: Southern Company

Data: Plant Yates AMA-R6

Printed 5/16/2023, 8:25 AM

Constituent Well Sig. <u>N</u> Mean Std. Dev. %NDs ND Adj. Alpha Method Lower Lim. **Transform** PZ-35 0.003 0.00039 9 0.00271 0.00087 88.89 None 0.002 NP (NDs) Antimony (mg/L) 0.006 No No 0.0008973 0.01 NP (NDs) Antimony (mg/L) PZ-37 0.003 0.0014 0.006 No 15 0.002577 80 None No PZ-37D 0.003 0.0015 0.002625 0.00075 75 0.0625 NP (NDs) Antimony (ma/L) 0.006 No None No 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 7 0.002053 0.001191 57.14 0.008 NP (NDs) No None No Antimony (mg/L) YAMW-5 0.003 0.00033 0.006 No 7 0.002619 0.001009 None 0.008 NP (NDs) 85.71 No YGWC-23S 0.003 0.00085 NP (NDs) Antimony (mg/L) 0.006 No 20 0.002633 0.000901 85 None No 0.01 Antimony (mg/L) YGWC-24SB 0.003 0.0009 0.006 No 0.002889 0.0004818 None No 0.01 NP (NDs) 0.0041 Antimony (mg/L) YGWC-36A 0.0015 0.006 No 20 0.0039 0.00582 50 None Nο 0.01 NP (normality) Antimony (mg/L) YGWC-38 0.003 0.0015 0.006 No 0.002474 0.001003 76.47 None No NP (NDs) YGWC-41 0.003 0.0014 0.002906 0.0003881 Antimony (mg/L) 0.006 No 17 94.12 None Nο 0.01 NP (NDs) YGWC-42 0.00053 0.002855 0.0005991 NP (NDs) Antimony (mg/L) 0.003 0.006 94.12 None No 0.01 YGWC-43 0.00031 0.0006524 0.003 0.006 0.002842 94.12 None NP (NDs) Antimony (mg/L) No No 0.01 Antimony (mg/L) YGWC-49 0.003 0.0011 0.006 No 0.002743 0.0007326 88.24 None No NP (NDs) P7-35 Arsenic (ma/L) 0.005 0.00096 0.01 Nο 10 0 003625 0.001858 60 Kaplan-Meier Nο 0.011 NP (NDs) Arsenic (mg/L) 0.005 0.00094 0.01 No 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 Nο 0.011 NP (NDs) Arsenic (mg/L) YAMW-4 0.005 0.00079 0.01 No 0.003299 0.001867 42.86 None No 800.0 NP (normality) Arsenic (mg/L) YAMW-5 0.003443 0.0008822 0.01 No 0.003379 0.001754 42.86 Kaplan-Meier No 0.01 Param. Kaplan-Meier Arsenic (mg/L) YGWC-23S 0.005 0.0025 0.01 No 0.004714 0.0009483 90.91 Nο 0.01 NP (NDs) Arsenic (mg/L) YGWC-24SB 0.005 0.0035 0.01 No 21 0.004638 0.000962 85.71 None Nο 0.01 NP (NDs) YGWC-36A 0.0047 Arsenic (mg/L) 0.005 0.01 No 22 0.004038 0.001789 72.73 None No 0.01 NP (NDs) YGWC-38 0.0023 0.00072 0.01 No 0.002026 0.001701 None No NP (normality) Arsenic (mg/L) 18 22.22 0.01 0.005 0.00072 Arsenic (mg/L) YGWC-41 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 0.002471 0.001327 16.67 Kaplan-Meier sqrt(x) 0.01 Param. YGWC-43 0.005 0.0022 0.01 No 18 0.004039 0.001695 72.22 Kaplan-Meier 0.01 NP (NDs) Arsenic (mg/L) No YGWC-49 0.005 0.001 0.01 No 0.004262 0.001644 82.35 Kaplan-Meier No 0.01 NP (NDs) Arsenic (mg/L) PZ-35 0.09056 0.03164 2 0.0611 0.03302 Barium (mg/L) 0 None 0.01 Param. No No PZ-37 0.05259 0.03422 2 0.04341 0.01356 Barium (mg/L) No 15 0 None No 0.01 Param. PZ-37D 0.033 0.013 2 0.01975 Barium (mg/L) No 4 0.009069 0 None No 0.0625 NP (selected) Barium (mg/L) YAMW-1 0.07559 0.03621 2 0.0559 0.02207 0 None No 0.009272 0.006756 2 0.008014 Param Barium (mg/L) YAMW-2 Nο 0.001059 n None Nο 0.01 Barium (mg/L) YAMW-4 0.021 0.003 2 No 0.008614 0.008204 0 None No NP (normality) 2 YAMW-5 0.057 0.034 0.04014 0.007988 0.008 NP (normality) Barium (mg/L) No 7 0 None Nο Barium (mg/L) YGWC-23S 0.04724 0.03277 2 No 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 Nο 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 Nο 0.01 Param 0.02814 0.02032 2 0 Barium (mg/L) YGWC-41 No 0.02423 0.006464 0.01 Param. 18 No None Barium (mg/L) YGWC-42 0.04281 0.02937 2 No 18 0.03609 0.01111 0 None No 0.01 Param. YGWC-43 0.03348 0.01907 18 0.02627 0.01191 0 0.01 Param. Barium (mg/L) No None No Barium (mg/L) YGWC-49 0.07733 0.06751 2 No 17 0.07242 0.007833 0 None No 0.01 Param. Bervllium (ma/L) PZ-35 0.003 0.00025 0.004 No 0.00092 0.001041 18.18 None No 0.006 NP (normality) Beryllium (mg/L) PZ-37 0.0008051 0.0002982 0.004 No 0.000632 0.0004727 13.33 None 0.01 Param. 15 In(x) 0.0005 YAMW-1 0.000095 0.004 10 0.0002913 0.000198 40 0.011 NP (normality) Bervllium (ma/L) No No None YAMW-2 0.0005 0.000051 0.004 0.000186 0.0002146 Beryllium (mg/L) No 28.57 None No 0.008 NP (normality) YAMW-5 0.0001549 0.0001016 0.004 0.0001283 0.0000251 0 0.01 Param. Beryllium (mg/L) No 8 None No YGWC-23S 0.00023 0.00009 0.004 No 0.0007785 0.001234 22.73 None NP (normality) Beryllium (mg/L) No 0.01 Beryllium (mg/L) YGWC-24SB 0.00016 0.0001 0.004 No 21 0.000315 0.0004966 14.29 None Nο 0.01 NP (normality) 0.0003907 0.0001957 0.0003436 Beryllium (mg/L) YGWC-36A 0.004 No 0.000292 None In(x) 0.01 YGWC-38 0.0056 0.0028 0.004228 0.001375 Beryllium (mg/L) 0.004 No 18 0 None Nο 0.01 NP (normality) Beryllium (mg/L) YGWC-41 0.0037 0.0015 0.004 No 18 0.002633 0.001035 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 Nο 0.01 NP (NDs) YGWC-43 Beryllium (mg/L) 0.003 0.0003 0.004 No 0.001234 0.00129 33.33 None No NP (normality) YGWC-49 0.00015 0.0001 0.004 Nο 0.0001994 0.0003358 NP (normality) Beryllium (mg/L) 5.882 None Nο

# Confidence Intervals - All Results

					5 - 7 VII	1 Courts							
	Pla	ant Yates Clie	nt: Southern Co	mpany Data	: Plan	t Yat	tes AMA-R6	Printed 5/16/20	023, 8:25	5 AM			
Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	<u>N</u>	<u>Mean</u>	Std. Dev.	%NDs	ND Adj.	Transform	<u>Alpha</u>	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		NP (normality)
Chromium (mg/L)	YAMW-4	0.005	0.00057	0.1	No	7	0.004367	0.001674	85.71	None	No		NP (NDs)
Chromium (mg/L)	YAMW-5	0.005	0.0016	0.1	No	7	0.004514	0.001285	85.71		No		NP (NDs)
Chromium (mg/L)	YGWC-23S	0.005	0.00086	0.1	No		0.003474	0.001985	61.11		No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-24SB	0.005	0.0011	0.1	No		0.004302	0.001554	82.35		No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-36A	0.005	0.0035	0.1	No		0.004249	0.001542	77.78		No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-38	0.005	0.00065	0.1	No		0.004508	0.001642	88.89		No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-41	0.005	0.00039	0.1	No		0.004744	0.001487	94.44		No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-42	0.005	0.00033	0.1	No		0.004744	0.001627	83.33		No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-43	0.005	0.0013	0.1	No		0.004290	0.001027	77.78		No	0.01	NP (NDs)
, • ,	YGWC-49		0.00074				0.004032						
Chromium (mg/L)		0.002		0.1	No			0.0008434	6.25	None	No	0.01	NP (normality)
Cobalt (mg/L)	PZ-35	0.005	0.005	0.035	No		0.00509	0.0002846	90	None	No		NP (NDs)
Cobalt (mg/L)	PZ-37	0.01012	0.003723	0.035	No		0.007327	0.004972	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YAMW-1	0.0223	0.00592	0.035	No		0.01424	0.01018		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		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		No		NP (NDs)
Cobalt (mg/L)	YGWC-36A	0.005	0.00086	0.035	No		0.003986	0.001915	77.27		No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-41	0.005	0.0011	0.035	No		0.004022	0.00189	77.78		No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-42	0.002174	0.001682	0.035	No		0.001928	0.000407	5.556		No	0.01	Param.
Cobalt (mg/L)	YGWC-43	0.005	0.0006	0.035	No		0.002886	0.00189		None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-49	0.005	0.0008	0.035	No		0.003971	0.001914	76.47	None	No		NP (NDs)
Combined Radium 226 + 228 (pCi/L)	PZ-35	0.9597	0.2765	6.92	No		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		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		5 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	5 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

Client: Southern Company

Data: Plant Yates AMA-R6

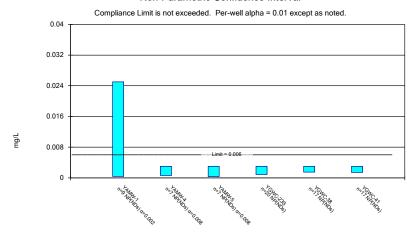
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Upper Lim. Constituent Well Sig. <u>N</u> Mean Std. Dev. %NDs ND Adj. <u>Transform</u> <u>Alpha</u> Method Lower Lim YAMW-4 0.1107 0.06478 4 No 7 0.1053 0.02559 42.86 Kaplan-Meier Param. Fluoride (mg/L) sqrt(x) 0.01 YAMW-5 71.43 Kaplan-Meier NP (NDs) Fluoride (mg/L) 0.1 0.05 4 No 7 0.08643 0.02322 No 0.008 YGWC-23S 0.057 4 0.09374 0.02005 NP (NDs) Fluoride (ma/L) 0.12 Nο 82.61 Kaplan-Meier No 0.01 Fluoride (mg/L) YGWC-24SB 0.1 0.098 4 No 0.09464 0.01727 86.36 None No 0.01 NP (NDs) Fluoride (mg/L) YGWC-36A 0.094 4 No 0.09374 0.02997 69.57 Kaplan-Meier No 0.01 NP (NDs) 0.1 Fluoride (mg/L) YGWC-38 0.21 0.034 No 0.1486 0.107 68.42 Kaplan-Meier NP (NDs) 19 No 0.01 Fluoride (mg/L) YGWC-41 0.11 0.1 NP (NDs) No 19 0.1005 0.002294 89.47 Kaplan-Meier No 0.01 Fluoride (mg/L) YGWC-42 0.1 0.06 No 0.08547 0.0247 68.42 None No NP (NDs) 0.06255 4 Fluoride (mg/L) YGWC-43 0.1061 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 No 0.09944 0.02363 Kaplan-Meier NP (NDs) PZ-35 0.000087 0.015 0.0008041 0.000389 77.78 None 0.002 NP (NDs) Lead (mg/L) 0.001 No 9 Nο PZ-37 0.0001 0.0007115 0.0004235 Lead (mg/L) 0.001 0.015 No 66.67 None No 0.01 NP (NDs) 0.00019 0.00027 YAMW-1 0.001 0.015 9 0.00091 0.002 NP (NDs) Lead (mg/L) No 88.89 None No 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 Nο 7 0.0007023 0.000393 57 14 None Nο 0.008 NP (NDs) 0.001 No 0.0006034 0.000495 No 0.008 NP (NDs) Lead (mg/L) 0.001 Lead (mg/L) YGWC-23S 0.00044 0.015 Nο 20 0.0008413 0.0003325 80 None Nο 0.01 NP (NDs) Lead (mg/L) YGWC-24SB 0.001 0.00036 0.015 No 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 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 Nο 0.01 NP (NDs) YGWC-42 0.001 0.0002 NP (NDs) Lead (mg/L) 0.015 No 18 0.0007995 0.0003871 77.78 None No 0.01 YGWC-43 0.001 0.00008 0.015 No 0.0008975 0.0002983 88.89 No NP (NDs) Lead (mg/L) 18 None 0.01 YGWC-49 0.001 0.000059 0.0009446 0.0002282 NP (NDs) Lead (mg/L) 0.015 No 94.12 None No 0.01 Lithium (mg/L) PZ-35 0.011 0.0011 0.04 No 0.00399 0.004873 10 None No 0.011 NP (normality) Lithium (ma/L) PZ-37 0.032 0.017 0.04 No 15 0.03158 0.02645 6.667 None Nο 0.01 NP (normality) Lithium (mg/L) PZ-37D 0.0167 0.0007531 0.04 No 0.008725 0.003511 0 No 0.01 None Param. YAMW-1 0.02048 0.007982 0.01423 0.007003 Lithium (mg/L) 0.04 No 10 0.01 Param. None No YAMW-3 0.05992 0.03258 0.04 0.04625 0.006021 Lithium (mg/L) No 0 None No 0.01 Param. Lithium (mg/L) YAMW-4 0.03625 0.02086 7 0.02886 0.04 No 0.006986 0 None x^2 0.01 Param. Lithium (ma/L) YAMW-5 0.01608 0.01306 0.04 0.01457 0.001272 0 YGWC-23S 0.002681 0.002065 0.002373 0.0005742 Lithium (mg/L) 0.04 Nο 22 4 545 None Nο 0.01 Param Lithium (mg/L) YGWC-36A 0.005916 0.002611 0.04 No 0.004649 0.003238 4.545 None 0.01 Param. sqrt(x) YGWC-38 0.008605 0.007139 0.04 0.007872 0.001211 0 Lithium (mg/L) No 18 None Nο 0.01 Param Lithium (mg/L) YGWC-41 0.0043 0.0021 No 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 Nο 0.01 Param. Lithium (mg/L) YGWC-43 0.01791 0.01204 0.04 No 18 0.01497 0.00485 0 None Nο 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 0.0002 0.00019 NP (NDs) Mercury (mg/L) PZ-37 0.002 No 15 0.00019 0.00003606 86.67 None No 0.01 Mercury (mg/L) YGWC-23S 0.0002 0.00015 0.002 No 0.0001911 0.00002686 88.24 None No 0.01 NP (NDs) YGWC-38 0.0002 0.00008 0.002 0.0001811 0.00005045 86.67 0.01 NP (NDs) Mercury (mg/L) No None No Mercury (mg/L) YGWC-41 0.0002 0.00006 0.002 No 0.0001907 0.00003615 93.33 None No 0.01 NP (NDs) Mercury (ma/L) YGWC-42 0.0002 0.000048 0.002 No 0.0001899 0.00003925 93.33 None No 0.01 NP (NDs) Mercury (mg/L) YGWC-43 0.0002 0.00009 0.002 No 0.0001828 0.00004596 86.67 None No 0.01 NP (NDs) 15 YGWC-49 0.0002 0.00014 0.002 14 0.0001858 0.00003931 0.01 NP (NDs) Mercury (ma/L) No 85.71 None No PZ-35 0.01 0.0019 0.008987 0.002864 NP (NDs) Molybdenum (mg/L) 0.1 No 87.5 None No PZ-37 0.01 0.0015 0.1 0.005607 0.004265 46.67 None 0.01 NP (normality) Molybdenum (mg/L) No No Molybdenum (mg/L) PZ-37D 0.0059 0.0018 No 0.00345 0.001816 0 0.0625 NP (selected) 0.1 None No Molybdenum (mg/L) YAMW-1 0.00368 0.001155 0.1 No 8 0.005249 0.004059 37.5 Kaplan-Meier 0.01 Param sart(x) 0.008272 0.005785 0.007029 Molybdenum (mg/L) YAMW-4 0.1 No 0.001047 None No 0.01 YGWC-36A 0.0027 0.1 0.007722 0.003508 NP (NDs) Molybdenum (mg/L) 0.01 No 18 66.67 None Nο 0.01 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) YGWC-43 0.0012 Molybdenum (mg/L) 0.01 0.1 No 18 0.005039 0.004227 38.89 None Nο 0.01 NP (normality) YGWC-49 0.002325 Molvbdenum (ma/L) 0.01 0.0007 0.1 0.009419 93.75 None No NP (NDs) Selenium (ma/L) P7-35 0.005 0.003 Nο 10 0 0042 0.001195 0.011 NP (NDs) 0.05 60 None Nο

### Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/16/2023, 8:25 AM %NDs ND Adj. Constituent Well Upper Lim. Lower Lim.  $\underline{\text{Compliance}} \ \underline{\text{Sig.}} \ \underline{\text{N}} \ \underline{\text{Mean}}$ Std. Dev. Transform Alpha Method PZ-37 0.2801 0.2029 Yes 15 0.2415 0.05697 0 None Param. Selenium (mg/L) No 0.01 0.005 Selenium (mg/L) 0.0027 0.05 No 10 0.00422 0.001164 0.011 NP (normality) YAMW-1 50 None No Selenium (mg/L) YAMW-4 0.02008 0.001939 0.05 No 8 0.01322 0.008018 25 Kaplan-Meier 0.01 Param. No 0.06099 Selenium (mg/L) YAMW-5 0.04008 0.05 0.0505 0.01135 None 0.01 Param. YGWC-23S 0.03882 0.02843 22 0.03362 Selenium (mg/L) 0.05 No 0.009677 0 None No 0.01 Param. 0.005 Selenium (mg/L) YGWC-36A 0.002 0.05 22 0.003477 0.001403 40.91 None No 0.01 NP (normality) Selenium (mg/L) YGWC-38 0.246 0.064 18 0.1496 0.08206 0 NP (normality) 0.05 Yes No 0.01 None Selenium (mg/L) YGWC-41 0.067 0.031 0.05 18 0.04877 0.01783 None No NP (normality) Selenium (mg/L) YGWC-42 0.05382 0.04031 0.05 No 18 0.04706 0.01116 0 No 0.01 Param. None Selenium (mg/L) YGWC-49 0.008439 0.006573 0.05 17 0.007506 0.001489 5.882 None 0.01 Thallium (mg/L) YGWC-49 0.001 0.00009 0.002 15 0.0009393 0.000235 0.01 NP (NDs) No 93.33 None No

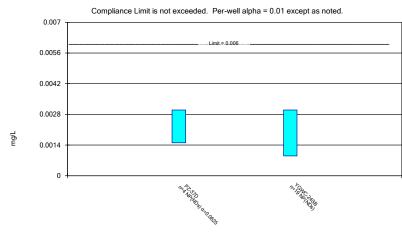
#### Non-Parametric Confidence Interval



Constituent: Antimony Analysis Run 5/16/2023 8:20 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

#### Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

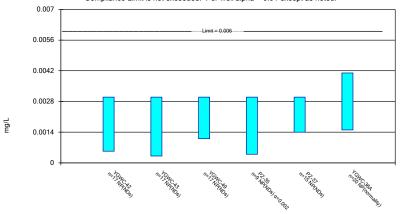
#### Non-Parametric Confidence Interval



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.

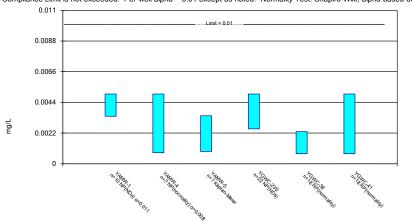


Constituent: Antimony Analysis Run 5/16/2023 8:20 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

#### Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

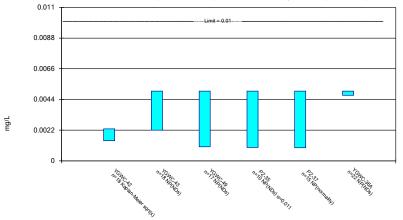
### Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



### 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.



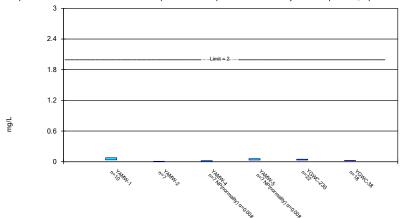
Constituent: Arsenic Analysis Run 5/16/2023 8:20 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

#### 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.

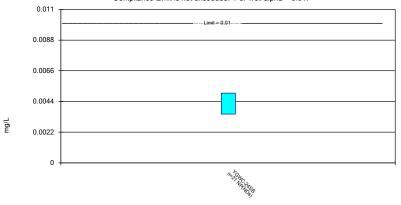


Constituent: Barium Analysis Run 5/16/2023 8:20 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

#### Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

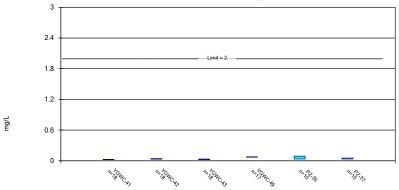


Constituent: Arsenic Analysis Run 5/16/2023 8:20 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

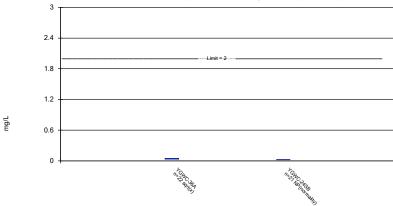
#### Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

### Parametric Confidence Interval



### 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.



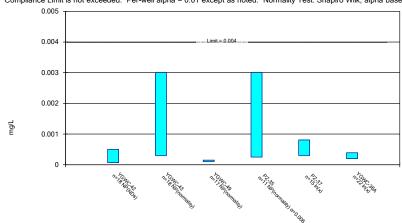
Constituent: Barium Analysis Run 5/16/2023 8:20 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

#### Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

### Parametric and Non-Parametric (NP) Confidence Interval

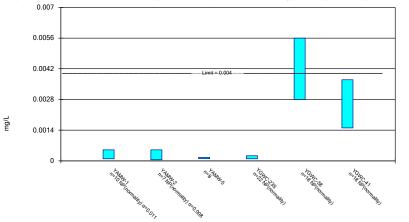
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: 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.

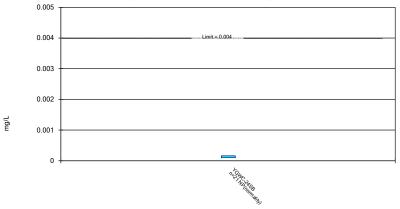


Constituent: Beryllium Analysis Run 5/16/2023 8:21 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

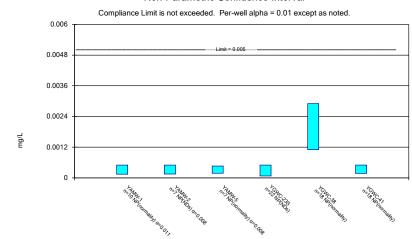
#### Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

#### Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



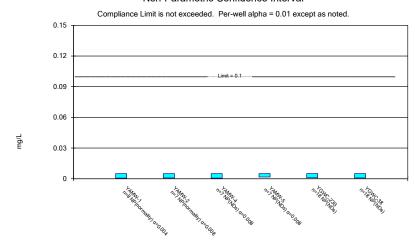
#### Non-Parametric Confidence Interval



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

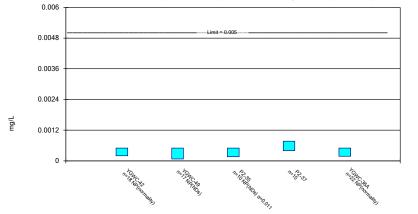
### Non-Parametric Confidence Interval



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.

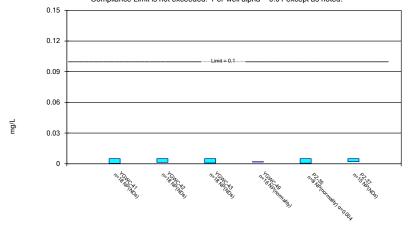


Constituent: Cadmium Analysis Run 5/16/2023 8:21 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

#### Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

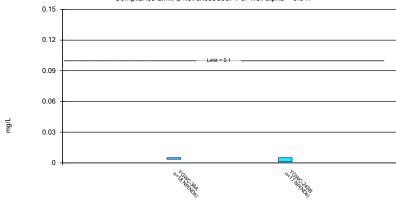
### Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



#### Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

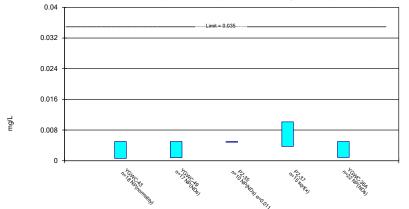


Constituent: Chromium Analysis Run 5/16/2023 8:21 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

#### 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.

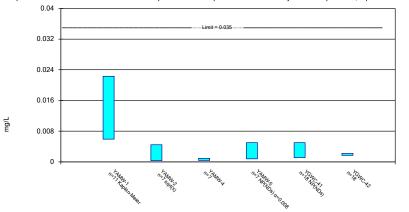


Constituent: Cobalt Analysis Run 5/16/2023 8:21 AM View: Appendix IV

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.

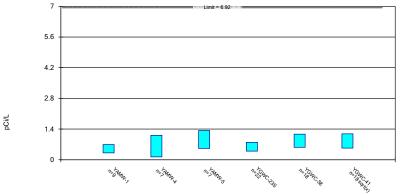


Constituent: Cobalt Analysis Run 5/16/2023 8:21 AM View: Appendix IV

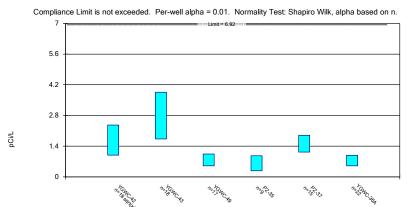
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

#### Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

#### Parametric Confidence Interval



#### Parametric Confidence Interval



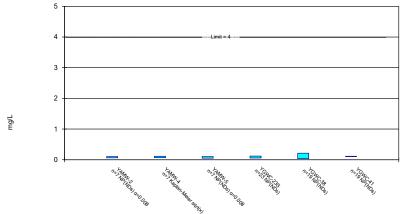
Constituent: Combined Radium 226 + 228 Analysis Run 5/16/2023 8:21 AM View: Appendix IV

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.

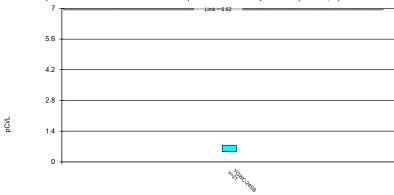


Constituent: Fluoride Analysis Run 5/16/2023 8:21 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

#### Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

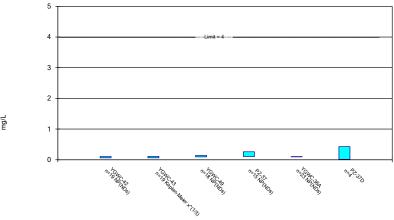


Constituent: Combined Radium 226 + 228 Analysis Run 5/16/2023 8:21 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

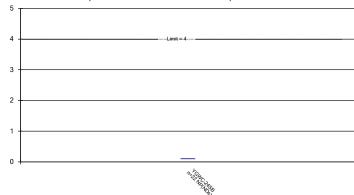
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

### Parametric and Non-Parametric (NP) Confidence Interval



#### Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

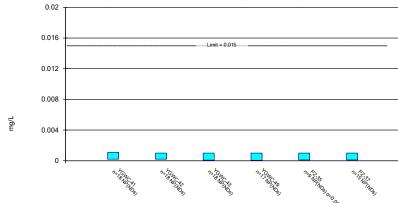


Constituent: Fluoride Analysis Run 5/16/2023 8:21 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

#### 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.

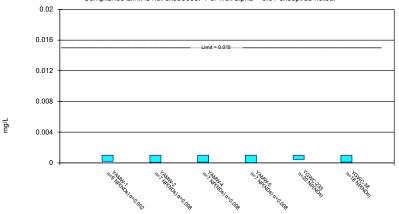


Constituent: Lead Analysis Run 5/16/2023 8:21 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

#### Non-Parametric Confidence Interval

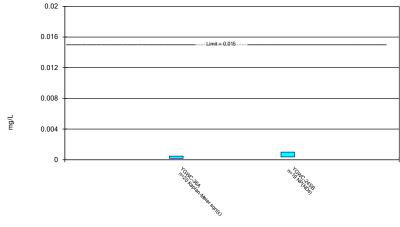
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



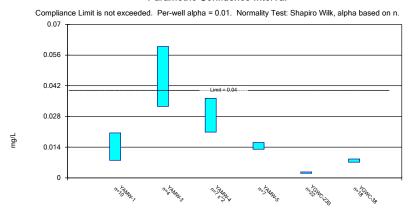
Constituent: Lead Analysis Run 5/16/2023 8:21 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

#### Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

### Parametric and Non-Parametric (NP) Confidence Interval



#### Parametric Confidence Interval

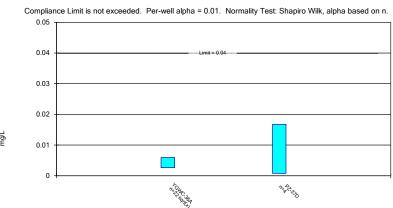


Constituent: Lithium Analysis Run 5/16/2023 8:21 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

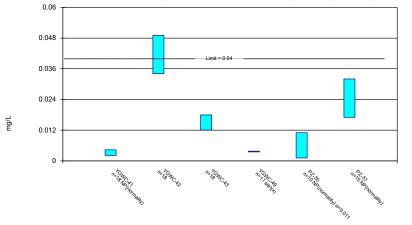
#### Parametric Confidence Interval



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.



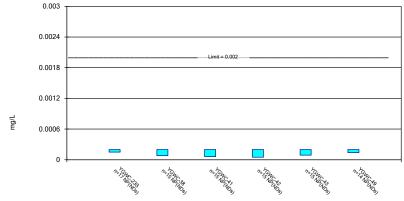
Constituent: Lithium Analysis Run 5/16/2023 8:21 AM View: Appendix IV

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.



#### Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

0.003

0.0024

0.0018

0.0012

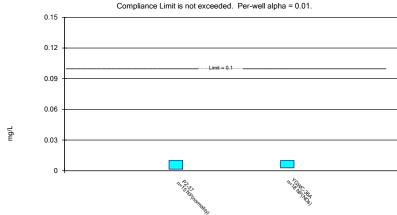
0.0006

Constituent: Mercury 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

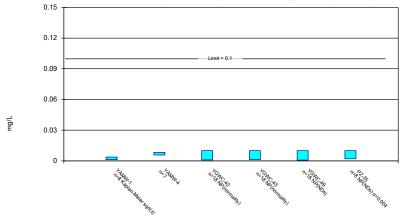
### Non-Parametric Confidence Interval



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 not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

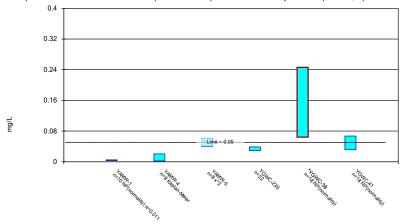


Constituent: Molybdenum Analysis Run 5/16/2023 8:21 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

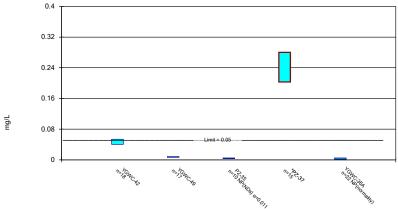
### Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.\* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



### 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.

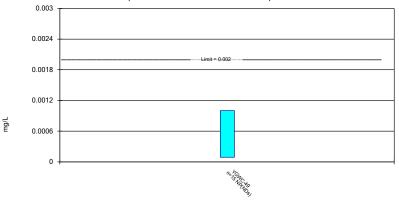


Constituent: Selenium Analysis Run 5/16/2023 8:22 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

### Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



1920  18			YAMW-1	YAMW-4	YAMW-5	YGWC-23S	YGWC-38	YGWC-41
118/2016	6/7/20	)16				<0.003		
1182016	7/28/2	2016				<0.003		
14162017	9/20/2	2016				<0.003		
\$1,000   \$	11/8/2	2016				<0.003		
	1/16/2	2017				<0.003		
1710 2017	3/9/20	)17				<0.003		
10122017    112672017    112672017    112172018    1	5/2/20	)17				<0.003		
11/20/2017	7/10/2	2017				<0.003		
11/20/2017	10/12/	/2017					<0.003	<0.003
1/11/2018								
1/12/2018	11/21/	/2017						<0.003
1/12/2018	1/11/2	2018						<0.003
	1/12/2	2018					<0.003	
A/3/2018	2/19/2	2018						<0.003
A/3/2018							<0.003	
4/3/2018						<0.003		
6/27/2018							<0.003	<0.003
6/28/2018								
8/7/2018							<0.003	
9/24/2018								<0.003
36/2019								
4/4/2019						<0.003		
8/22/2019								
9/27/2019							<0.003	<0.003
3/25/2020	9/26/2	2019	<0.003					
3/25/2020						0.00029 (J)		
3/26/2020			<0.003				0.00063 (J)	<0.003
9/23/2020						<0.003		
9/24/2020       <0.003				0.00065 (J)				
9/25/2020 2/9/2021 0.00037 (J) 0.0011 (J) 0.00031 (J) 0.00031 (J) 0.00031 (J) 0.0014 (J) 3/3/2021 0.025 0.00062 (J) 0.003 0.003 0.0003			<0.003	. ,	0.00033 (J)	0.00085 (J)		
2/10/2021       0.025       0.00062 (J)         3/3/2021       0.025       0.0003       <0.003					.,	. ,	0.00061 (J)	<0.003
2/10/2021       0.025       0.00062 (J)         3/3/2021       0.025       0.0003       <0.003	2/9/20	)21	0.00037 (J)	0.0011 (J)	<0.003	0.00052 (J)	0.00031 (J)	
3/3/2021 0.025 0.0062 (J) 3/4/2021								0.0014 (J)
3/4/2021	3/3/20	021	0.025	0.00062 (J)				
8/26/2021       < 0.003	3/4/20	)21			<0.003	<0.003	<0.003	<0.003
9/1/2021 0.0024 (J) 2/8/2022	8/25/2	2021		<0.003		<0.003		
2/8/2022       < 0.003	8/26/2	2021			<0.003		<0.003	<0.003
2/8/2022       < 0.003	9/1/20	)21	0.0024 (J)					
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 0.003	2/8/20	)22						<0.003
9/1/2022       <0.003			<0.003	<0.003	<0.003	<0.003	<0.003	
9/1/2022       <0.003	8/31/2	2022	0.0016 (J)					
2/9/2023       <0.003				<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       0.00901       0.001003       0.003881         Upper Lim.       0.025       0.003       0.003       0.003       0.003       0.003			<0.003					
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				0.002053	0.002619	0.002633	0.002474	0.002906
Upper Lim. 0.025 0.003 0.003 0.003 0.003 0.003	Std. D	Dev.	0.007581	0.001191	0.001009	0.000901	0.001003	0.0003881
	Upper	r Lim.	0.025	0.003	0.003	0.003	0.003	0.003

			rialit	ates Client. South	nem Company Da	ita. Flatit Tates AlviA-110
	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	0.000		0.0011 (0)			0.0004 (J)
5/9/2017			<0.003			<0.003
5/10/2017	<0.003	<0.003	-0.000			-0.000
7/11/2017	<0.003	<0.003				
7/11/2017	10.000	10.003	<0.003			<0.003
9/22/2017			<b>~0.003</b>			<0.003
9/29/2017						<0.003
10/6/2017			0.000			<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	<del>-</del>			<del>-</del>	<del>-</del>	0.0023 (J)
8/31/2022			<0.003	<0.003		\~/
9/1/2022	<0.003	<0.003		2.230	0.00091 (J)	<0.003
2/8/2023	<0.003	<0.003			<0.003	0.000
2/9/2023	-0.000	-0.000	<0.003	<0.003	-0.000	<0.003
21312023			50.000	30.000		•0.000

	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

	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

	YAMW-1	YAMW-4	YAMW-5	YGWC-23S	YGWC-38	YGWC-41
6/7/2016				<0.005		
7/28/2016	6			<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		
10/12/201				-0.000	0.0023 (J)	0.0011 (J)
11/20/201					0.0023 (J)	0.0011 (0)
11/21/201					0.0000 (0)	<0.005
1/11/2018						<0.005
1/12/2018					0.001 (J)	<b>10.003</b>
					0.001 (3)	<0.00E
2/19/2018					0.00000 (1)	<0.005
2/20/2018				-0.005	0.00096 (J)	
3/30/2018	3			<0.005	0.0015 (1)	0.00070 (1)
4/3/2018				0.005	0.0015 (J)	0.00072 (J)
6/12/2018				<0.005		
6/27/2018						0.00062 (J)
6/28/2018	3				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		
10/16/201	8 <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					0.00068 (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 Lin	n. 0.005	0.005	0.003443	0.005	0.0023	0.005
Lower Lin	n. 0.0034	0.00079	0.0008822	0.0025	0.00072	0.00072

		YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37	YGWC-36A
8/30	0/2016	0.0023 (J)					
8/3	1/2016		<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	4/2017		<0.005				
2/27	7/2017	0.002 (J)		<0.005			
2/28	8/2017						0.0006 (J)
5/9/	/2017			<0.005			0.0006 (J)
5/10	0/2017	0.0022 (J)	<0.005				
7/1	1/2017	0.003 (J)	<0.005				
7/13	3/2017			<0.005			<0.005
9/22	2/2017						<0.005
9/29	9/2017						<0.005
10/6	6/2017						<0.005
10/	11/2017			0.0006 (J)			
10/	12/2017	0.0031 (J)	<0.005			0.0014 (J)	
11/2	21/2017					0.0008 (J)	
1/1	1/2018					0.0006 (J)	
2/20	0/2018					<0.005	
3/30	0/2018						<0.005
4/3/	/2018					0.0012 (J)	
	/2018	0.0023 (J)	<0.005	<0.005			
6/13	3/2018						0.00066 (J)
	9/2018					0.0011 (J)	
	/2018					<0.005	
	0/2018	0.0018 (J)	0.00099 (J)	0.001 (J)			
	4/2018					0.00094 (J)	
	6/2018						<0.005
	16/2018				0.00069 (J)		
	/2019						<0.005
	/2019						<0.005
	1/2019		<0.005				
	2/2019	0.00089 (J)					
	6/2019			<0.005	<0.005		<0.005
	9/2019	0.00078 (J)	0.00051 (J)				
	5/2020	0.0013 (J)	0.0007 (J)	0.00086 (J)	<0.005		<0.005
	4/2020	<0.005	.0.005	<0.005	<0.005	.0.005	
	5/2020		<0.005			<0.005	40.005
	7/2020		.0.005	0.005		0.0045 (1)	<0.005
	/2021		<0.005	<0.005		0.0015 (J)	
	0/2021	0.0016 (J)	.0.005	0.005	0.00096 (J)	.0.005	0.00088 (J)
	/2021	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	5/2021	0.0014 (J)		-0.005	-0.005	0.0014 (J)	
	/2021			<0.005	<0.005		×0.005
	/2021		<0.005				<0.005
	7/2021		<0.005	<0.00F			
	/2022	0.0036 ( !)	0.0022 (J)	<0.005	0.0019 / 1)	0.001771	
	0/2022 1/2022	0.0026 (J)			0.0018 (J)	0.0017 (J)	0.001471)
2/ 1	1/2022						0.0014 (J)

	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

	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

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	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	

	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					5.5.5
9/20/2018	0.027	0.038	0.035	0.074		
9/24/2018	0.026	0.030	0.033	0.074		0.047
10/16/2018	0.020				0.063	0.047
8/21/2019			0.03		0.003	
8/22/2019	0.021	0.031	0.03			
	0.021	0.031		0.065	0.030	
9/26/2019	0.021	0.027	0.04	0.065	0.039	
10/9/2019	0.021	0.027	0.04	0.074	0.020	
3/25/2020	0.021	0.03	0.033	0.071	0.039	
9/24/2020	0.040	0.026	0.045	0.066	0.034	0.001
9/25/2020	0.016		0.046	a.c:		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
	0.006464	0.01111	0.01191	0.007833	0.03302	0.01356
Std. Dev.	0.000101					
Std. Dev. Upper Lim.	0.02814	0.04281	0.03348	0.07733	0.09056	0.05259

	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

	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				-0.000	0.0057	0.0036
11/20/2017					0.0053	0.0000
11/21/2017					0.0000	0.0036
1/11/2018						0.0037
1/12/2018					0.0053	0.0007
2/19/2018					0.0033	0.0039
2/20/2018					0.0053	0.0039
				<0.003	0.0033	
3/30/2018 4/3/2018				<b>~</b> 0.003	0.0056	0.0037
6/12/2018				8 1E-05 ( I)	0.0030	0.0007
6/12/2018				8.1E-05 (J)		0.0038
					0.0050	0:0036
6/28/2018					0.0059	0.0027
8/7/2018					0.0058	0.0037
9/24/2018				05.05 (1)	0.0051	0.0032
9/27/2018	-0.0005			9E-05 (J)		
10/16/2018	<0.0005			0.05.05.(1)		
3/6/2019				6.6E-05 (J)		
4/4/2019				7.2E-05 (J)	0.0040	0.0036 (1)
8/22/2019	<0.000E				0.0049	0.0026 (J)
9/26/2019	<0.0005			7.7E.0E.(1)		
9/27/2019				7.7E-05 (J)	0.0046	0.0036 (1)
10/9/2019			0.00017 (J)		0.0046	0.0026 (J)
1/15/2020	0.00037 (1)		0.00017 (3)		0.0028	0.0036 (1)
3/25/2020	0.00037 (J)			05.05(1)	0.0038	0.0026 (J)
3/26/2020		<0.000E		9E-05 (J)		
9/23/2020	E 9E 0E ( I )	<0.0005	9 6E 0E ( I)	0.00015 (1)		
9/24/2020 9/25/2020	5.8E-05 (J)		8.6E-05 (J)	0.00015 (J)	0.0033	0.002 (1)
2/9/2021	<0.000E	E 1E 0E ( I)	0.00015 (1)	0.00015 (1)	0.0033	0.002 (J)
2/10/2021	<0.0005	5.1E-05 (J)	0.00015 (J)	0.00015 (J)	0.0029 (J)	0.0015 (J)
3/3/2021	<0.0005	<0.0005				0.0013 (3)
3/4/2021	<0.0003	<0.0003	0.00013 (J)	0.00013 (J)	0.0029	0.0015
			0.00013 (3)		0.0029	0.0013
8/25/2021 8/26/2021			0.00012 (J)	0.00019 (J)	0.0028	0.0012
9/1/2021	9 5F_05 ( I)	6.5E-05 (J)	0.00012 (3)		0.0020	0.0012
	9.5E-05 (J)	0.5E-05 (J)				0.0016
2/8/2022 2/10/2022	0.00016 (J)	7.45-05 (1)	0.00013 (J)	0.00023 (J)	0.0027	0.0016
8/31/2022		7.4E-05 (J)	0.00013 (3)	0.00023 (3)	0.0027	
9/1/2022	0.00011 (J)	5 75 05 (1)	0.00011 (J)	0.00019 (J)	0.0022	0.0013
2/8/2023		5.7E-05 (J)		0.00019 (J) 0.00022 (J)	0.0022	0.0013
2/9/2023	0.00012 (J)	5.5E-05 (J)	0.00013 (J)	0.00022 (3)	0.002	0.0013
		0.000186	U UUU 1363	0.0007785	0.004228	0.002633
Mean Std. Dev.	0.0002913 0.000198	0.000186	0.0001283 2.51E-05	0.0007785	0.004228	0.002633 0.001035
Upper Lim.	0.000198	0.0002146	0.0001549	0.001234	0.001375	0.001035
оррег сип.	0.0003	0.0000	0.0001049	0.00023	0.0030	0.0007

	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

					, , .	
	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			0.0001 (0)			0.0003 (J)
9/29/2017						0.0003 (J)
10/6/2017			0.0004 (1)			0.0003 (J)
10/11/2017	-0.0005	0.0004 (1)	0.0001 (J)		0.000477	
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	3.3000 (0)				
9/26/2019	~0.0000		0.00013 (J)	<0.003		0.00029 (J)
10/9/2019	<0.0005	0 00034 ( 1)	0.00013 (0)	-0.000		0.00029 (0)
		0.00034 (J)	0.00012 (1)	<0.002		0.00022 (1)
3/25/2020	<0.0005	0.00034 (J)	0.00013 (J)	<0.003		0.00022 (J)
9/24/2020	6.7E-05 (J)	0.000=1.10	0.00013 (J)	0.00033 (J)	0.00001111	
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	

	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

	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

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	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	0.00020 (0)
8/7/2018					0.0027	0.00024 (J)
9/24/2018					0.0027	0.00021 (J)
9/27/2018				<0.0005	0.0027	0.00021 (0)
10/16/2018	0.00014 (J)			-0.0000		
3/6/2019	0.00014 (0)			<0.0005		
4/4/2019				<0.0005		
8/22/2019				<b>~0.0003</b>	0.0023 (J)	0.00015 (J)
9/26/2019	<0.0005				0.0023 (3)	0.00013 (3)
9/27/2019	<0.0003			<0.0005		
10/9/2019				<b>~0.0003</b>	0.0021 (1)	0.00017 (1)
	<0.000E				0.0021 (J)	0.00017 (J)
3/25/2020	<0.0005			<0.000E	0.0018 (J)	0.00018 (J)
3/26/2020		-0.0005		<0.0005		
9/23/2020	0.0004777	<0.0005	0.00040.710	.0.005		
9/24/2020	0.00017 (J)		0.00018 (J)	<0.0005	0.0045 (1)	0.0001470
9/25/2020	0.00010 (1)	-0.0005	0.00005 (1)	-0.0005	0.0015 (J)	0.00014 (J)
2/9/2021	0.00013 (J)	<0.0005	0.00025 (J)	<0.0005	0.0014 (J)	.0.005
2/10/2021	.0.005					<0.0005
3/3/2021	<0.0005	<0.0005	0.00040.710	.0.005	0.0040	.0.005
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

			Fiant	rates Client. Souti	Terri Company Data. Flant Tates AlviA-10	
	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	0.0000 (1)	10.0005		0.00063 (J)		
9/20/2018	0.0002 (J)	<0.0005		0.00060 (1)		
9/24/2018 9/26/2018				0.00069 (J)	0.00018 (J)	
10/16/2018			<0.0005		0.00018 (3)	
3/6/2019			<0.0003		0.00015 (J)	
4/4/2019					0.00019 (J)	
8/22/2019	0.00017 (J)				0.000 10 (0)	
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	

	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

	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

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	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
Lower Lim.	0.00039	0.0013	0.00074	0.0016	0.0006	0.0019

	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

	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

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	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)			10.000
10/11/2017	0.0006 (J)	0.0000 (3)		0.0078 (J)	
11/21/2017	0.0000 (3)			0.0078 (J)	
1/11/2018				0.0097 (3)	
2/20/2018				0.0162	-0.00F
3/30/2018				0.045	<0.005
4/3/2018	.0.005	.0.005		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
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	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

	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)	(5)		
4/3/2018				0.000 (0)	0.726 (U)	0.911 (U)	
6/12/2018				1.03 (U)	0.720 (0)	0.011 (0)	
6/27/2018				1.03 (0)		0.429 (U)	
6/28/2018					1.06 (U)	0.429 (0)	
8/7/2018						0.670 (11)	
					1.21	0.579 (U)	
9/24/2018				1.00 (11)	1.52	1.39	
9/27/2018	0.204 (11)			1.06 (U)			
10/16/2018	0.384 (U)			0.700 (11)			
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	

	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37	YGWC-36A
8/30/2016	2.99	. 3.70 40	. 3.10 40	55	0,	. 2.10 00/1
8/31/2016	2.00	0.926 (U)				
9/1/2016		0.020 (0)	1.2			
9/2/2016			1.2			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	J., 21 (J)
4/4/2018	1.9	1.71	0.442 (U)		*****	
6/13/2018	1.5	1.71	0.442 (0)			1.04 (11)
					1.69	1.04 (U)
6/29/2018						
8/6/2018	101	0.0	444.00		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)	0.00	0.107 (0)	0.546 (U)	1.02	0.466 (U)
		6.02	0.670 (11)		1.40	
3/4/2021	1.02	6.02	0.579 (U)	0.397 (U)	1.49	0.0671 (U)
8/25/2021	0.978 (U)		0.000 "."	0.005 ""	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)

	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

	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

	YAMW-2	YAMW-4	YAMW-5	YGWC-23S	YGWC-38	YGWC-41
6/7/2016				<0.1		
7/28/2010	6			0.03 (J)		
9/20/2010				<0.1		
11/8/201				<0.1		
1/16/201				<0.1		
3/9/2017				<0.1		
5/2/2017				<0.1		
7/10/201				<0.1		
10/11/20				<0.1		
10/12/20					<0.1	<0.1
11/20/20	117				0.2 (J)	
11/21/20	117					<0.1
1/11/2018	8					<0.1
1/12/2018	8				0.21 (J)	
2/19/2018	8					<0.1
2/20/2018	8				<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	-0.1
						0.1175
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	9					0.1 (J)
4/4/2019	)			0.049 (J)		
8/22/2019	9				<0.1	<0.1
9/27/2019	9			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		5.1		
9/24/2020		<b>~</b> 0.1	<0.1	<0.1		
			<b>~</b> 0.1	<b>~</b> 0.1	-0.1	-0.1
9/25/2020		0.11	.0.4	-0.4	<0.1	<0.1
2/9/2021		0.14	<0.1	<0.1	<0.1	
2/10/202						<0.1
3/3/2021		0.14				
3/4/2021			<0.1	<0.1	<0.1	<0.1
8/25/202	<b>!</b> 1	<0.1		<0.1		
8/26/202	<u>:</u> 1		<0.1		<0.1	<0.1
9/1/2021	<0.1					
2/8/2022						<0.1
2/10/202		<0.1	<0.1	<0.1	<0.1	
9/1/2022		0.078 (J)	0.055 (J)	0.057 (J)	<0.1	<0.1
2/8/2023		0.079 (J)	0.05 (J)	<0.1	<0.1	<0.1
				0.09374		
Mean	0.08914	0.1053	0.08643		0.1486	0.1005
Std. Dev.		0.02559	0.02322	0.02005	0.107	0.002294
Upper Lir		0.1107	0.1	0.12	0.21	0.11
Lower Lir	m. 0.061	0.06478	0.05	0.057	0.034	0.1

	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			0.00 (0)		0.05 (J)	
11/14/2016					0.03 (J)	
11/15/2016			0.16 ( 1)		0.18 (3)	
	0.07 (1)	0.271)	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	<b>5</b>	
4/4/2018	<0.1	<0.1	<0.1	0.01		
6/13/2018	70.1	70.1	70.1		<0.1	
				<0.1	<b>~</b> 0.1	
6/29/2018						
8/6/2018	0.044.45	.0.4		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	V.1	<0.1	J. 1	<0.1		
10/7/2020		-0.1		-0.1	<0.1	
		0.059 ( !)	-0.1	~0 1	<b>~</b> 0.1	
2/9/2021	-0.1	0.058 (J)	<0.1	<0.1	-0.4	
2/10/2021	<0.1	0.000 / "			<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		

		YGWC-42	YGWC-43	YGWC-49	PZ-37	YGWC-36A	PZ-37D
2/	11/2022					<0.1	0.17
8/3	31/2022			<0.1			
9/	1/2022	0.053 (J)	0.091 (J)		<0.1	<0.1	0.35
2/8	3/2023	0.08 (J)	0.11		<0.1		0.2
2/9	9/2023			<0.1		<0.1	
Me	ean	0.08547	0.1037	0.09944	0.1567	0.09374	0.2175
St	d. Dev.	0.0247	0.04885	0.02363	0.1072	0.02997	0.09069
Up	per Lim.	0.1	0.1061	0.14	0.26	0.1	0.4234
Lo	wer Lim.	0.06	0.06255	0.09	0.1	0.094	0.0116

	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

	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

					, , .		
	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	0.0007333	0.0002983	0.0002282	0.000389	0.0004235	
Upper Lim.	0.0003830	0.0003871	0.0002383	0.0002282	0.000	0.001	
Lower Lim.	0.0001	0.0001	8E-05	5.9E-05	8.7E-05	0.0001	
LOWGI LIIII.	0.0002	0.0002	02 00	0.02-00	0.7E-00	0.0001	

	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

	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

	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)		2017(1)	
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)	0.0000 ( ))	0.0000 ( 1)	0.013 (J)	
2/9/2023	0.004070	0.04450	0.01407	0.0033 (J)	0.0026 (J)	0.00450	
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 0.0021	0.04908 0.03408	0.01791 0.01204	0.003802 0.003463	0.011 0.0011	0.032 0.017	
Lower Lim.	J.UUZ I	0.03400	0.01204	0.003403	0.0011	0.017	

	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

			Flaiit	rates Cherit. Sout	nem Company Da	ata. Flant Tates AlviA-110
	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			0.0002	0.0002	
2/24/2017	0.0002				<0.0002	
2/27/2017				<0.0002	10.0002	<0.0002
3/9/2017	<0.0002			<b>~0.0002</b>		V.0002
5/2/2017	<0.0002					
	<0.0002					40,0000
5/9/2017						<0.0002
5/10/2017	<0.0000			<0.0002	<0.0002	
7/10/2017	<0.0002			.0.000	.0.0000	
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	3.3302			<0.0002
9/27/2021					9E-05 (JB)	
2/8/2022			<0.0002		<0.0002	<0.0002
	<0.0000	<0.0002	~U.UUUZ	<0.0000	~U.UUUZ	*U.UUUZ
2/10/2022	<0.0002	<0.0002		<0.0002		<0.0003
8/31/2022	-0.0000	-0.0000	-0.0000	-0.0000	10.0000	<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

	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

	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

	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

	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

		YAMW-1	YAMW-4	YAMW-5	YGWC-23S	YGWC-38	YGWC-41	
6/7/2016	6				0.037			
7/28/201	16				0.0385			
9/20/201	16				0.0464			
11/8/201	16				0.0521			
1/16/201					0.0469			
3/9/2017					0.0437			
5/2/2017					0.0395			
7/10/201					0.0386			
10/12/20						0.265	0.0191	
11/20/20						0.246	0.0.0	
11/21/20							0.0687	
1/11/201							0.069	
1/12/201						0.249	0.000	
2/19/201						0.240	0.071	
2/20/201						0.253	0.071	
3/30/201					0.028	0.233		
4/3/2018					0.020	0.23	0.067	
6/12/201					0.026	0.23	0.007	
6/27/20					0.020		0.066	
						0.23	0.000	
6/28/201							0.061	
8/7/2018						0.2	0.061	
9/24/201					0.000	0.2	0.061	
9/27/201		0.0010 (1)			0.023			
10/16/20		0.0019 (J)			0.040			
3/6/2019					0.019			
4/4/2019					0.017	0.44	0.050	
8/22/201		.0.005				0.14	0.058	
9/26/201		<0.005						
9/27/201					0.018			
10/9/201						0.12	0.052	
1/15/202				0.045				
1/16/202			0.0018 (J)					
3/25/202		<0.005				0.099	0.057	
3/26/202					0.024			
9/23/202			0.016					
9/24/202		<0.005		0.026	0.031			
9/25/202						0.076	0.046	
2/9/2021		<0.005	<0.005	0.06	0.032	0.073		
2/10/202							0.033	
3/3/2021		<0.005	<0.005					
3/4/2021				0.061	0.037	0.076	0.037	
8/25/202			0.019		0.032			
8/26/202				0.055		0.06	0.027	
9/1/2021		0.0027 (J)						
2/8/2022	2						0.031	
2/10/202	22	0.0034 (J)	0.019	0.057	0.039	0.064		
8/31/202	22	0.0041 (J)						
9/1/2022	2		0.023	0.048	0.036	0.055	0.027	
2/8/2023	3		0.017	0.052	0.035	0.056	0.027	
2/9/2023	3	0.0051						
Mean		0.00422	0.01322	0.0505	0.03362	0.1496	0.04877	
Std. Dev	<i>1</i> .	0.001164	0.008018	0.01135	0.009677	0.08206	0.01783	

	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

			Fidili	Tates Client. 300	unien Company Data. Frant Tates Awa-No
	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)			0.000
10/11/2017	0.0594	0.0000 (0)		0.234	
11/21/2017	0.0004			0.225	
1/11/2018				0.168	
2/20/2018				0.108	
				0.313	40.00E
3/30/2018				0.00	<0.005
4/3/2018	0.055	.0.04		0.28	
4/4/2018	0.055	<0.01			0.000470
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)
			. ,		

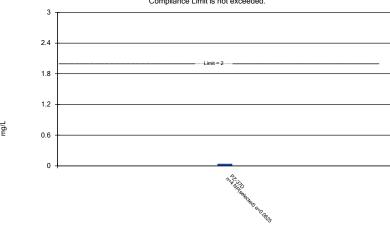
	YGWC-42	YGWC-49	PZ-35	PZ-37	YGWC-36A
Mean	0.04706	0.007506	0.0042	0.2415	0.003477
Std. Dev.	0.01116	0.001489	0.001195	0.05697	0.001403
Upper Lim.	0.05382	0.008439	0.005	0.2801	0.005
Lower Lim.	0.04031	0.006573	0.003	0.2029	0.002

	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

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#### Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



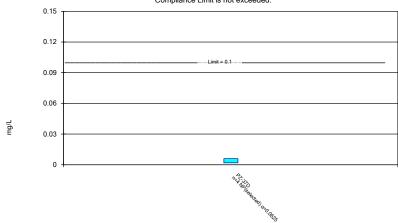
#### Normality testing disabled.

Constituent: Barium Analysis Run 5/16/2023 8:22 AM View: Appendix IV Nonparametric
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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#### Non-Parametric Confidence Interval

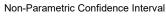
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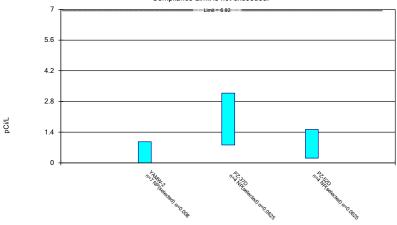
Normality testing disabled.

Constituent: Molybdenum Analysis Run 5/16/2023 8:22 AM View: Appendix IV Nonparametric
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG



Compliance Limit is not exceeded.



Normality testing disabled.

	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

	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

	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
 NNDs
 Normality
 Xform
 Alpha
 Method

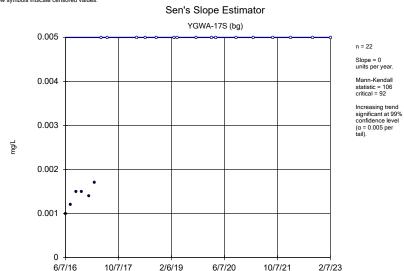
 Selenium (mg/L)
 YGWA-17S (bg)
 0
 106
 92
 Yes
 22
 72.73
 n/a
 n/a
 0.01
 NP

 Selenium (mg/L)
 YGWC-38
 -0.04789
 -138
 -68
 Yes
 18
 0
 n/a
 n/a
 0.01
 NP

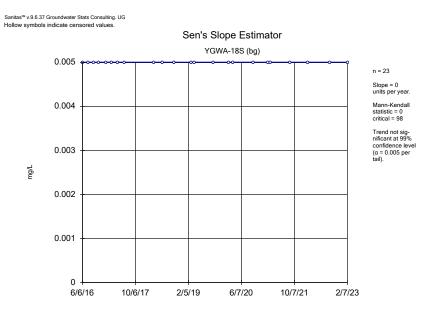
# Appendix IV Trend Tests - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/26/2023, 11:42 AM

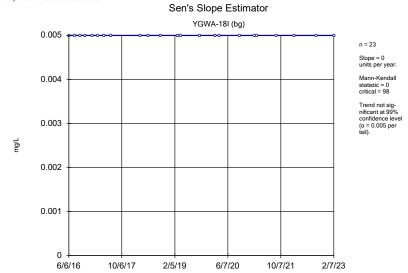
Constituent	Well	Slope	Calc.	Critical	Sig.	<u>N</u>	<u>%NDs</u>	Normality	<u>Xform</u>	<u>Alpha</u>	Method
Selenium (mg/L)	YGWA-17S (bg)	0	106	92	Yes	22	72.73	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-18I (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-18S (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
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) Selenium (mg/L)	YGWC-38 YGWA-47 (bg)	<b>-0.04789</b> 0	<b>-138</b> 21	<b>-68</b> 48	Yes No	<b>18</b> 14	-	<b>n/a</b> n/a	n/a n/a	<b>0.01</b> 0.01	<b>NP</b> NP
, ,							-				
Selenium (mg/L)	YGWA-47 (bg)	0	21	48	No	14	85.71	n/a n/a	n/a	0.01	NP
Selenium (mg/L) Selenium (mg/L)	YGWA-47 (bg) GWA-2 (bg)	0	21 0	48 214	No No	14 39	85.71 100	n/a n/a	n/a n/a	0.01 0.01	NP NP
Selenium (mg/L) Selenium (mg/L) Selenium (mg/L)	YGWA-47 (bg) GWA-2 (bg) YGWA-14S (bg)	0 0 0	21 0 54	48 214 87	No No No	14 39 21	85.71 100 71.43	n/a n/a n/a	n/a n/a n/a	0.01 0.01 0.01	NP NP NP
Selenium (mg/L) Selenium (mg/L) Selenium (mg/L) Selenium (mg/L)	YGWA-47 (bg) GWA-2 (bg) YGWA-14S (bg) YGWA-1D (bg)	0 0 0	21 0 54 0	48 214 87 87	No No No	14 39 21 21	85.71 100 71.43 100	n/a n/a n/a n/a	n/a n/a n/a n/a	0.01 0.01 0.01 0.01	NP NP NP NP
Selenium (mg/L) Selenium (mg/L) Selenium (mg/L) Selenium (mg/L) Selenium (mg/L)	YGWA-47 (bg) GWA-2 (bg) YGWA-14S (bg) YGWA-1D (bg) YGWA-1I (bg)	0 0 0 0	21 0 54 0	48 214 87 87	No No No No	14 39 21 21 21	85.71 100 71.43 100 100	n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a	0.01 0.01 0.01 0.01 0.01	NP NP NP NP
Selenium (mg/L) Selenium (mg/L) Selenium (mg/L) Selenium (mg/L) Selenium (mg/L) Selenium (mg/L)	YGWA-47 (bg) GWA-2 (bg) YGWA-14S (bg) YGWA-1D (bg) YGWA-1I (bg) YGWA-2I (bg)	0 0 0 0 0	21 0 54 0 0	48 214 87 87 87	No No No No No	14 39 21 21 21 21	85.71 100 71.43 100 100	n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a	0.01 0.01 0.01 0.01 0.01 0.01	NP NP NP NP NP
Selenium (mg/L) Selenium (mg/L) Selenium (mg/L) Selenium (mg/L) Selenium (mg/L) Selenium (mg/L) Selenium (mg/L)	YGWA-47 (bg) GWA-2 (bg) YGWA-14S (bg) YGWA-1D (bg) YGWA-1I (bg) YGWA-2I (bg) YGWA-30I (bg)	0 0 0 0 0 0	21 0 54 0 0 0	48 214 87 87 87 87 87	No No No No No No	14 39 21 21 21 21 21	85.71 100 71.43 100 100 100	n/a n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a n/a	0.01 0.01 0.01 0.01 0.01 0.01	NP NP NP NP NP NP
Selenium (mg/L) Selenium (mg/L) Selenium (mg/L) Selenium (mg/L) Selenium (mg/L) Selenium (mg/L) Selenium (mg/L) Selenium (mg/L)	YGWA-47 (bg) GWA-2 (bg) YGWA-14S (bg) YGWA-1D (bg) YGWA-11 (bg) YGWA-2I (bg) YGWA-30I (bg) YGWA-3D (bg)	0 0 0 0 0 0 0	21 0 54 0 0 0 0	48 214 87 87 87 87 87	No No No No No No	14 39 21 21 21 21 21 21 21	85.71 100 71.43 100 100 100 100	n/a n/a n/a n/a n/a n/a n/a n/a	n/a n/a n/a n/a n/a n/a n/a n/a n/a n/a	0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01	NP NP NP NP NP NP NP NP



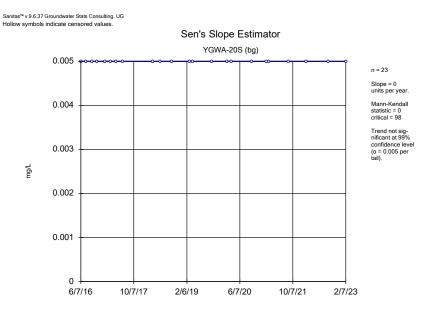
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



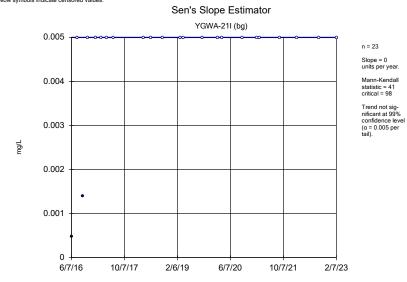
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



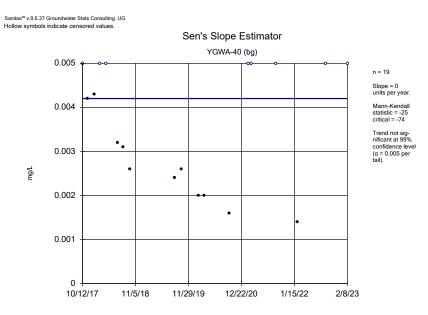
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



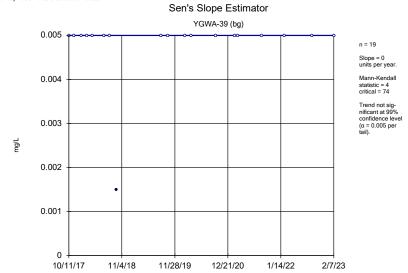
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



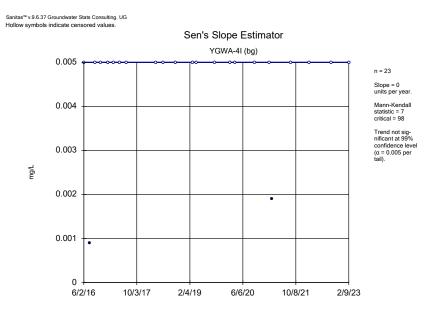
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Selenium Analysis Run 4/26/2023 11:41 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

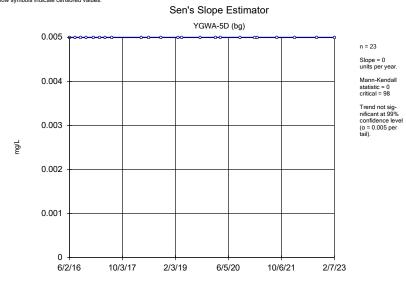


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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



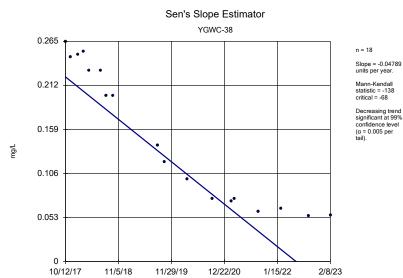
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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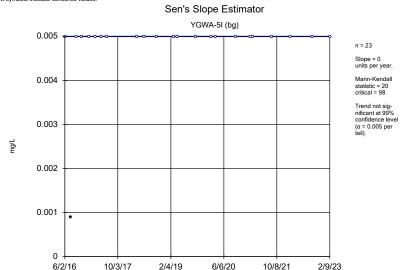
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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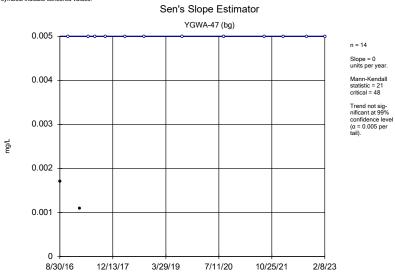
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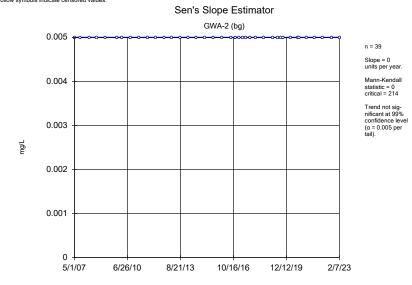


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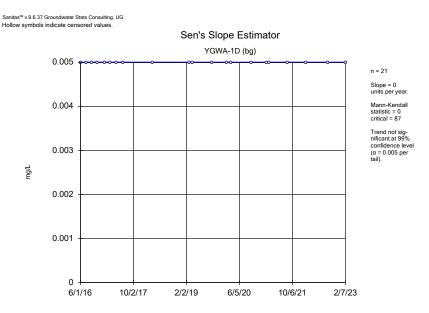




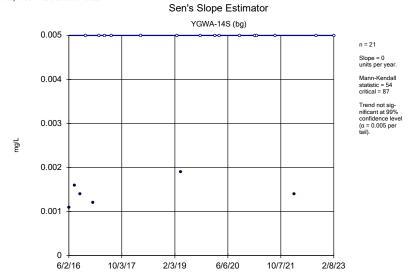
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



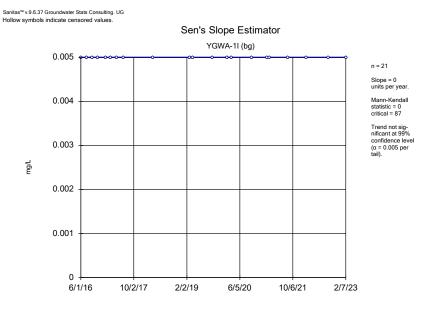
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



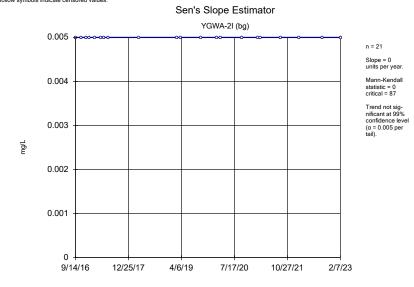
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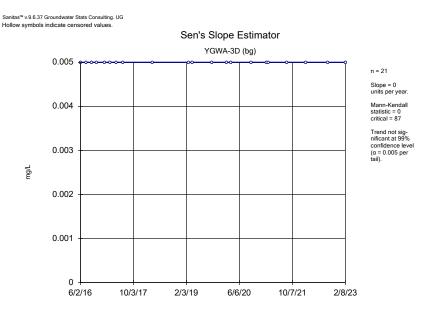
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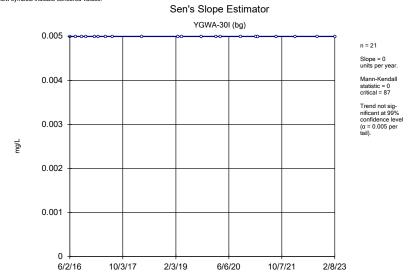
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



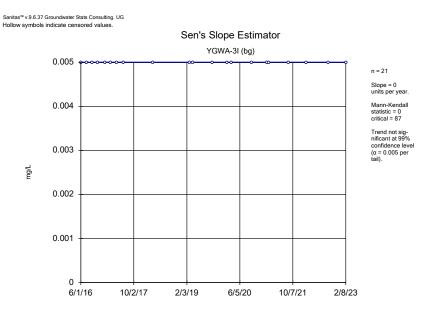
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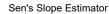
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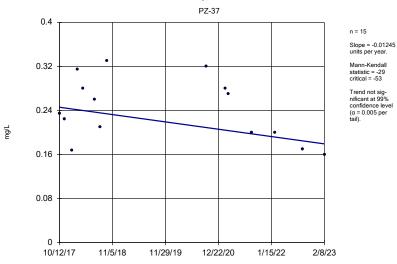


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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Selenium Analysis Run 4/26/2023 11:41 AM View: Appendix IV Trend Tests
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Fax: 770 435 2666 www.arcadis.com