



# 2022 Semiannual Groundwater Monitoring and Corrective Action Report

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

August 31, 2022

# **2022 Semiannual Groundwater Monitoring** and Corrective Action Report

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

August 31, 2022

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### **Summary**

This summary of the 2022 Semiannual Monitoring and Corrective Action Report provides the status of the groundwater monitoring and corrective action program from January through July 2022 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 groundwater conditions at the site, an assessment monitoring program was established on January 14, 2018 at AP-3, B, and B'; in September 2019



Plant Yates and the site

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 through July 2022 reporting period, the site remained in assessment monitoring as corrective measures are being evaluated.

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. Statistical evaluation for the Spring 2022 event was updated to reflect these changes.

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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

During the first half of the 2022 reporting period, Arcadis conducted one semiannual groundwater sampling event in February. Groundwater samples were submitted to Pace Analytical Services, LLC, for analysis. Per the CCR Rule, groundwater results from February 2022 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.

Appendix III Parameter	February 2022
Boron	YGWC-23S, YGWC-38, YGWC-41, YGWC-42, YGWC-43
Calcium	YGWC-38, YGWC-42
Sulfate	YGWC-38, YGWC-42
Total Dissolved Solids	YGWC-38, YGWC-41, YGWC-42, YGWC-43
Appendix IV Parameter <sup>4</sup>	February 2022
Selenium	YGWC-38, PZ-37

The selenium SSL 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. Beryllium concentrations at YGWC-38 have been decreasing since 2018 and below the GWPS since 2020. Using the eight most recent observations, beryllium no longer exhibits an SSL at YGWC-38.

Based on review of the Appendix III and Appendix IV statistical results for the groundwater monitoring and corrective action program from January through July 2022, 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 GA EPD on August 31, 2022 under separate cover (Arcadis 2022).

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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<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.

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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

### **Professional Certification**

This 2022 Semiannual Groundwater Monitoring and Corrective Action Report for the Georgia Power Company 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 257 Subpart D) 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, and 40 CFR Part 258.50(g).

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8.31.22

Date

### 1 Introduction

This 2022 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 2022. 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 2022 semiannual monitoring 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 July 2022 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 to address a statistically significant level (SSL) of beryllium. 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 2022 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 2020).

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 compliance monitoring well network is summarized in **Table 1A**. Additionally, a series of piezometers and non-network 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 in 2022 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 2022 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. Additionally, YGWC-24SA and PZ-24IA were abandoned on May 25, 2022 to accommodate planned road realignment construction work at Dyer Road. A well abandonment report is located in **Appendix B**. A work plan for the installation of replacement wells will be submitted to GAEPD under separate cover and the well will be installed once the final Dyer Road re-alignment construction is complete.

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 B**.

### 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 as corrective measures are evaluated.

Semiannual assessment monitoring at the site for Appendix III and Appendix IV parameters was conducted in February 2022 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 Other Groundwater Sampling

To further characterize groundwater quality at the site, samples were collected from wells YAMW-1 through YAMW-5, PZ-35, and PZ-37 in February 2022. Additionally, to further delineate selenium concentrations vertically near PZ-37, samples were collected at PZ-37D and PZ-52D in February 2022. Well locations are presented on **Figure 3**. Sampling and analysis were performed following the procedures outlined in Section 3. Analytical results of this additional sampling are included in **Table 6**.

### 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 under separate cover (Arcadis 2022).

### 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 2022 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 for February 2022 (**Figure 4**). 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:

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$$v=rac{k\left(rac{dh}{dl}
ight)}{n_e}$$
 where: 
v = groundwater seepage velocity 
k = hydraulic conductivity 
dh/dl = hydraulic gradient 
n\_e = effective porosity

Groundwater flow velocities were calculated for the site based on hydraulic gradients, average hydraulic conductivity based on previous slug test data, and an estimated effective porosity of 0.20 (based on a review of several sources including Driscoll 1986, USEPA 1989, and Freeze and Cherry 1979). Calculated groundwater flow velocities for February 2022 are presented in **Table 4**. The calculated average linear flow velocity for February 2022 is 26 feet per year. These calculated groundwater velocities across the site are 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

 $\pm 10\%$  or  $\pm 0.2$  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 B**.

### 3.3 Laboratory Analyses

Samples were submitted for laboratory analysis from each monitoring well as summarized in **Table 2**. During the February 2022 sampling event, the AP-2 wells were sampled and analyzed for Appendix III parameters as well as

for Appendix IV parameters according to 40 CFR § 257.95(b). **Table 5** provides a summary of the constituents monitored during the event. The methods used for groundwater sample analyses are listed in the analytical laboratory reports included in **Appendix C**.

Analytical data collected during the sampling event is summarized in **Table 6**. 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 events are included in **Appendix C**.

### 3.4 Data Quality Assurance/Quality Control and Validation

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

The purpose of the data quality evaluation was to determine the reliability of the chemical analyses and the accuracy and precision of information acquired from the laboratory. Data quality was assessed through the review and evaluation of field sampling, quality control samples, and data associated with the chemical analytical results. The 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 C**.

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 2022 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 2022 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.

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)

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 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.

On February 22, 2022 GA EPD updated to the Rules for Solid Waste Management 391-3-4-.10(6) to incorporate updated Federal GWPS where an MCL has not been established, except when site specific background concentrations of these constituents are higher. Statistical evaluation for the Spring 2022 event was updated to reflect these changes.

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 2022 sampling event 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 2022 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 2022 sampling event presented in **Appendix D**, Appendix III constituents have not returned to background levels; therefore, assessment monitoring should continue pursuant to 40 CFR § 257.95(f). **Appendix D** includes a table summarizing site monitoring wells for which analytical sampling results have identified constituents with SSIs from each semiannual event.

### 4.2.2 Appendix IV Assessment Monitoring Constituents – February 2022

Statistical analysis of the February 2022 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

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

Decreasing trends: Beryllium: YGWC-38

Selenium: YGWC-38

As a result of GAEPD's adoption of the federal GWPS in April 2022, YGWC-42 no longer exhibits an SSL for lithium. Beryllium concentrations at YGWC-38 have been decreasing since 2018 and below the GWPS since 2020. The confidence interval constructed for YGWC-38 beryllium using the eight most recent observations (August 2019 to February 2022) does not indicate an SSL exceedance of the GWPS. Sanitas™ statistical output data for calculation of site-specific background concentrations (interwell tolerance limits) and confidence intervals for each Appendix IV constituent in downgradient wells are provided in **Appendix D**.

### 5 Monitoring Program Status

In accordance with 40 CFR § 257.94(e), an assessment monitoring program was implemented in January 2018 for AP-3, A, B, and B'. SSLs of Appendix IV parameters were identified for the multi-unit network during the 2019 assessment monitoring events. The R6 CCR Landfill was placed in assessment monitoring following the initial detection monitoring event in March 2019, and assessment monitoring was initiated with the second 2019 semiannual monitoring event. 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.

Horizontal and vertical delineation of current and historical SSLs of beryllium, cobalt, and selenium is complete.

### 6 Conclusions and Recommendations

This 2022 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 selenium SSLs provide spatial and vertical delineation to concentrations below the GWPSs. A Draft Remedy Selection Report, which summarizes the evaluation and proposed selection of a corrective measure, or measures, was submitted to GA EPD on August 31, 2022 under separate cover (Arcadis 2022).

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 2022. The August semiannual monitoring event will be a combined event to meet the requirements of GAEPD Rule 391-3-4-.10(6) and 40 CFR §§ 257.95(b) and (d)(1) and will include sampling and analysis of all Appendix III and IV constituents.

### 7 References

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### **Tables**



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
Jpgradient 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
P-3, A, B and B'							
YGWC-23S	9/21/2015	764.95	38.91	726.00	28.61	736.30	Downgradien
YGWC-24SA	6/4/2020	765.00	57.00	708.00	47.00	718.00	Downgradien
YGWC-36A	9/22/2020	740.88	51.20	689.68	41.18	699.70	Downgradien
YGWC-49	7/13/2016	782.73	78.53	704.20	67.63	715.10	Downgradier
6 CCR Landfill							
YGWC-38	7/23/2016	799.69	49.59	749.10	39.59	760.10	Downgradier
YGWC-41	7/8/2016	803.92	66.82	736.60	56.82	747.10	Downgradier
YGWC-42	7/8/2016	797.86	59.76	738.10	49.36	748.50	Downgradier
YGWC-43	7/9/2016	744.96	79.66	665.30	69.16	675.80	Downgradier

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



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	Downgradient
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-24IA	6/3/2020	764.33	89.53	674.80	79.53	684.80	Piezometer
PZ-35	7/20/2016	743.81	50.01	693.80	38.91	704.90	Downgradient
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	Downgradient
YAMW-3	11/6/2019	796.05	91.44	704.61	81.44	714.61	Downgradient
YAMW-4	11/7/2019	805.59	96.55	709.04	86.55	719.04	Downgradient
YAMW-5	11/13/2019	788.90	90.34	698.56	80.34	708.56	Downgradient

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	2022 First Semiannual Sampling <sup>1</sup>
Well ID	Location	February 8-11, 2022
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-24SA	Downgradient	X
YGWC-36A	Downgradient	X
YGWC-49	Downgradient	X
YAMW-1	Downgradient	X
PZ-35	Downgradient	X
R6 CCR Landfill		
YGWA-39	Upgradient	X
YGWA-40	Upgradient	X
YGWC-38	Downgradient	X
YGWC-41	Downgradient	X
YGWC-42	Downgradient	X
YGWC-43	Downgradient	X
YAMW-2	Downgradient	X
YAMW-3	Downgradient	X
YAMW-4	Downgradient	X
YAMW-5	Downgradient	X
PZ-37	Downgradient	X
PZ-37D	Downgradient	X
PZ-51	Downgradient	X
PZ-52D	Downgradient	X

- 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 Well	s	·		
YGWC-23S	2/7/2022	764.95	16.32	748.63
YGWC-24SA	2/7/2022	765.00	27.72	737.28
YGWC-36A	2/7/2022	740.88	8.77	732.11
YGWC-38	2/7/2022	799.69	30.40	769.29
YGWC-41	2/7/2022	803.92	28.42	775.50
YGWC-42	2/7/2022	797.86	28.89	768.97
YGWC-43	2/7/2022	744.96	21.54	723.42
YGWC-49	2/7/2022	782.73	32.11	750.62
			-	
PZ-35	2/7/2022	743.81	10.24	733.57
PZ-04S	2/7/2022	784.25	23.80	760.45
PZ-05S	2/7/2022	784.64	18.14	766.50
YGWA-6S	2/7/2022	782.47	18.91	763.56
YGWA-6I	2/7/2022	782.73	19.22	763.51
PZ-06D	2/7/2022	782.02	21.98	760.04
PZ-24IA	2/7/2022	764.33	28.20	736.13
PZ-37	2/7/2022	760.78	11.38	749.40
PZ-37D	2/7/2022	761.12	4.22	756.90
PZ-48	2/7/2022	799.83	20.28	779.55
PZ-51	2/7/2022	744.30	9.72	734.58
PZ-52D	2/7/2022	762.79	5.89	756.90
PZ-53D	2/7/2022	762.80	5.69	757.11
YAMW-1	2/7/2022	743.83	10.28	733.55
YAMW-2	2/7/2022	781.04	21.20	759.84
YAMW-3	2/7/2022	796.05	36.31	759.74
YAMW-4	2/7/2022	805.59	31.89 13.66	773.70
YAMW-5	2/7/2022	788.90		775.24
YGWA-20S	2/7/2022	767.12	11.00	756.12
Jpgradient Wells				
YGWA-4I	2/7/2022	784.21	22.29	761.92
YGWA-5I	2/7/2022	784.54	17.96	766.58
YGWA-5D	2/7/2022	784.53	19.54	764.99
YGWA-17S	2/7/2022	783.05	11.74	771.31
YGWA-18S	2/7/2022	790.57	19.81	770.76
YGWA-18I	2/7/2022	790.57	23.05	767.52
YGWA-21I	2/7/2022	783.70	30.18	753.52
YGWA-39	2/7/2022	818.19	17.62	800.57
YGWA-40	2/7/2022	815.73	22.71	793.02
YGWA-1I	2/7/2022	836.60	37.90	798.70
YGWA-1D	2/7/2022	837.25	48.94	788.31
YGWA-2I	2/7/2022	866.25	44.92	821.33
YGWA-3I	2/7/2022	796.55	52.35	744.20
YGWA-3D	2/7/2022	796.78	30.28	766.50
YGWA-14S	2/8/2022	748.76	18.58	730.18
YGWA-30I	2/8/2022	762.58	43.98	718.60
YGWA-47	2/7/2022	758.22	34.83	723.39
GWA-2	2/7/2022	805.62	36.39	769.23

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

### Acronyms and Abbreviations:

bTOC = below top of casing

ft = feet

TOC = top of casing



Equation

V = K (dh/dl)where: V = groundwater velocity K = hydraulic conductivity  $n_{e}$ dh/dl = i = hydraulic gradient

n<sub>e</sub> = effective porosity

### Values Used in Calculation

	Value		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	
[	Distance fron	n:	
YGWA-40 to YGWA-42	1,098	feet	
YGWC-49 to PZ- 24I	1,002	feet	
Grou	ndwater Elev	vation	Date Collected:
YGWA-40 YGWC-42 YGWC-49 PZ-24IA	793.02 768.97 750.62 736.65	feet	February 2022
			Hydraulic gradient from:
i <sub>2</sub> =	0.022 0.014 0.018	unitless unitless unitless	YGWA-40 to YGWC-42 (Feb. 2022) YGWC-49 to PZ-24l (Feb. 2022) Average
n <sub>e</sub> =	0.20	unitless	See note 2

Minimum Linear Flow Velocity

February 2022

February 2022

 $V_{min} = (0.28) (0.018)$  $V_{\text{max}} = (10) (0.018)$ 

0.20

0.20

Maximum Linear Flow Velocity

 $V_{min} = 0.03$  ft/day, or 11 ft/year

 $V_{max} = 0.9$  ft/day, or 329 ft/year

### Average Linear Flow Velocity

February 2022

 $V_{avg} = (0.8)(0.018)$ 

0.20

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

### Notes:

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

# Table 5 Summary of Groundwater Monitoring Parameters 2022 Semiannual Groundwater Monitoring and Corrective Action Report Georgia Power Company 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



	Analyte	YGWC-23S	YGWC-24SA	YGWC-36A	YGWC-38	YGWC-41	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37	PZ-37D
	Analyte	2/10/2022	2/10/2022	2/11/2022	2/10/2022	2/8/2022	2/10/2022	2/8/2022	2/8/2022	2/10/2022	2/10/2022	2/11/2022
	рН	5.51	4.66	5.58	4.85	5.07	5.57	5.82	5.79	5.35	4.93	7.84
	Boron	1.5	< 0.0086	0.019 J	5.4	4.0	14.4	2.3	< 0.0086	0.054	9.5	0.44
	Calcium	11.8	2.2	4.6	68.9	15.0	74.4	9.9	12.7	8.8	106	49.0
Appendix III	Chloride	1.9	8.7	6.6	4.0	3.5	3.3	2.1	4.2	5.6	4.2	12.5
	Fluoride	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.066 J	< 0.050	< 0.050	< 0.050	0.17
	Sulfate	78.7	< 0.50	16.4	290	109	485	133	73.9	42.6	452	115
	Total Dissolved Solids	180	78.0	81.0	541	226	882	294	164	130	798	382
	Antimony	< 0.00078	< 0.00078	0.0023 J	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078
	Arsenic	0.0025 J	0.0024 J	0.0014 J	0.0017 J	0.0021 J	0.0026 J	0.0022 J	< 0.0011	0.0018 J	0.0017 J	< 0.0011
	Barium	0.058	0.026	0.044	0.016	0.021	0.026	0.029	0.070	0.074	0.029	0.013
	Beryllium	0.00023 J	0.00016 J	0.00043 J	0.0027	0.0016	0.000061 J	0.00037 J	0.00015 J	0.00055	0.0010	< 0.000054
	Cadmium	< 0.00011	< 0.00011	< 0.00011	0.0011	0.00012 J	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.00093	< 0.00011
	Chromium	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	0.0021 J	< 0.0011	< 0.0011	< 0.0011
Appendix IV	Cobalt	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	0.0017 J	0.00045 J	< 0.00039	< 0.00039	0.0036 J	< 0.00039
Appendix IV	Lead	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
	Lithium	0.0029 J	< 0.00073	0.00093 J	0.0068 J	0.0023 J	0.052	0.016 J	0.0036 J	0.0021 J	0.017 J	0.0087 J
	Mercury	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
	Molybdenum	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	0.00080 J	0.0020 J	< 0.00074	< 0.00074	< 0.00074	0.0037 J
	Combined Radium - 226/228	1.31 U	1.14 U	1.35 U	1.08 U	0.989 U	1.14 U	3.11	1.10 U	2.19 U	1.46 U	1.11 U
	Selenium	0.039	< 0.0014	< 0.0014	0.064	0.031	0.044	< 0.0014	0.0075	0.0030 J	0.20	< 0.0014
	Thallium	< 0.00018	< 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

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

2022 Semiannual Groundwater Monitoring and Corrective Action Report



	Ameliate	PZ-51	PZ-52D	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5
	Analyte	2/10/2022	2/11/2022	2/10/2022	2/10/2022	2/10/2022	2/10/2022	2/10/2022
	рН	4.46	6.40	5.80	5.64	5.93	6.10	5.22
	Boron	6.8	0.84	0.36	0.022 J	7.7	3.0	4.9
	Calcium	54.7	27.3	21.5	1.3	29.4	11.6	40.8
Appendix III	Chloride	4.2	6.7	5.3	2.5	3.2	1.4	3.9
	Fluoride	0.10	0.10	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
	Sulfate	306	209	120	7.1	305	160	276
	Total Dissolved Solids	574	456	281	48.0	606	346	499
	Antimony	< 0.0078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078
	Arsenic	0.0013 J	0.0014 J	0.0023 J	< 0.0011	0.0038 J	0.0026 J	0.0024 J
	Barium	0.017	0.032	0.084	0.0074	0.038	0.0033 J	0.034
	Beryllium	0.0033	0.000059 J	0.00016 J	0.000074 J	0.000078 J	< 0.000054	0.00013 J
	Cadmium	0.0019	< 0.00011	0.00018 J	< 0.00011	< 0.00011	< 0.00011	0.00022 J
	Chromium	< 0.0011	0.0011 J	0.0013 J	< 0.0011	0.0011 J	< 0.0011	0.0016 J
Appondix IV	Cobalt	0.033	0.0011 J	0.011	0.00052 J	0.16	0.00044 J	< 0.00039
Appendix IV	Lead	< 0.0089	0.0031	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
	Lithium	0.0060 J	0.015 J	0.014 J	< 0.00073	0.054	0.036	0.015 J
	Mercury	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
	Molybdenum	< 0.00074	0.011	0.00089 J	< 0.00074	0.0036 J	0.0076 J	< 0.00074
	Combined Radium - 226/228	1.67 U	1.52	1.82 U	1.36 U	1.31 U	1.45 U	1.34 U
	Selenium	0.029	0.0025 J	0.0034 J	< 0.0014	< 0.0014	0.019	0.057
	Thallium	< 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

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

2022 Semiannual Groundwater Monitoring and Corrective Action Report

### Table 6b

Upgradient Groundwater Analytical Data - February 2022 2022 Semiannual Groundwater Monitoring and Corrective Action Report Georgia Power Company



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

	Analyte	Units	GWA-2 GWA-2_20220208 2/8/2022	YGWA-1D YGWA-1D_20220209 2/9/2022	YGWA-1I YGWA-1I_20220209 2/9/2022	YGWA-2I YGWA-2I_20220209 2/9/2022	YGWA-3I YGWA-3I_20220209 2/9/2022	YGWA-3D YGWA-3D_20220209 2/9/2022	YGWA-4I YGWA-4I_20220211 2/11/2022
	рН	SU	5.83	7.12	6.24	5.89	7.66	7.97	5.95
	Boron	mg/l	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	0.010 J	< 0.040
	Calcium	mg/l	25.6	14.9	2.1	23.4	23.7	30.3	7.5
Appendix III	Chloride	mg/l	5.7	1.0	1.3	1.0 J	1.1	1.1	4.1
	Fluoride	mg/l	0.064 J	0.057	< 0.10	0.094 J	0.097 J	0.43	< 0.10
	Sulfate	mg/l	107	9.3	5.1	18.0	16.0	7.2	7.7
	Total Dissolved Solids	mg/l	283	105	57.0	156	145	154	102
	Antimony	mg/l	< 0.0030	< 0.0030	< 0.0030	< 0.0030	< 0.0030	0.0018 J	< 0.0030
	Arsenic	mg/l	0.0033 J	0.0031 J	0.0033 J	0.0037 J	0.0018 J	0.0020 J	0.0014 J
	Barium	mg/l	0.037	0.0067	0.0088	0.0029 J	0.0031 J	0.0051	0.013
	Beryllium	mg/l	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	Cadmium	mg/l	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	Chromium	mg/l	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Annandiy IV	Cobalt	mg/l	0.072	0.00072 J	0.0023 J	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Appendix IV	Lead	mg/l	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
	Lithium	mg/l	0.0031 J	0.013 J	0.0027 J	0.0060 J	0.021 J	0.026 J	0.012 J
	Mercury	mg/l	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020
	Molybdenum	mg/l	< 0.010	0.0093 J	0.0055 J	0.0057 J	0.0087 J	0.013	< 0.010
	Combined Radium - 226/228	pCi/l	< 0.462	1.19	< 0.422	< 0.894	1.91	3.28	0.996
	Selenium	mg/l	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	Thallium	mg/l	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010

### Notes:

1. 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.

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Upgradient Groundwater Analytical Data - February 2022 2022 Semiannual Groundwater Monitoring and Corrective Action Report Georgia Power Company Plant Yates - A-3, A, B, B' and R6 CCR Landfill



YGWA-5D YGWA-5I YGWA-14S YGWA-17S YGWA-18I YGWA-18S YGWA-5D\_20220210 YGWA-18S\_20220209 Analyte Units YGWA-5I\_20220210 YGWA-14S\_20220210 YGWA-17S\_20220209 YGWA-18I\_20220209 2/10/2022 2/10/2022 2/10/2022 2/9/2022 2/9/2022 2/9/2022 SU 5.14 5.53 5.28 рН 6.99 4.50 5.98 < 0.040 0.020 J 0.0098 J < 0.040 0.011 J < 0.040 Boron mg/l 0.87 J Calcium mg/l 24.8 2.5 1.3 2.8 5.1 Appendix III 4.4 4.7 Chloride mg/l 3.2 10.9 7.5 7.0 Fluoride mg/l 0.055 J < 0.10 < 0.10 < 0.10 < 0.10 < 0.10 Sulfate mg/l 4.9 2.4 6.2 4.8 0.51 J 1.1 **Total Dissolved Solids** 127 77.0 56.0 81.0 103 60.0 mg/l < 0.0030 < 0.0030 Antimony mg/l < 0.0030 < 0.0030 < 0.0030 < 0.0030 Arsenic mg/l 0.0040 J 0.0016 J 0.0016 J 0.0024 J 0.0022 J 0.0024 J Barium mg/l 0.0084 0.020 0.0088 0.017 0.021 0.014 < 0.00050 0.00025 J 0.00011 J 0.000089 J Beryllium mg/l < 0.00050 < 0.00050 < 0.00050 < 0.00050 < 0.00050 < 0.00050 < 0.00050 Cadmium mg/l < 0.00050 Chromium < 0.0050 0.0014 J < 0.0050 < 0.0050 < 0.0050 < 0.0050 mg/l Cobalt mg/l < 0.0050 < 0.0050 < 0.0050 < 0.0050 < 0.0050 < 0.0050 Appendix IV Lead mg/l < 0.0010 < 0.0010 < 0.0010 < 0.0010 < 0.0010 < 0.0010 0.0076 J 0.0036 J < 0.030 0.0032 J 0.0015 J Lithium mg/l < 0.030 Mercurv mg/l < 0.00020 < 0.00020 < 0.00020 < 0.00020 < 0.00020 < 0.00020 Molybdenum mg/l 0.00096 J < 0.010 < 0.010 < 0.010 < 0.010 < 0.010 Combined Radium - 226/228 pCi/l 3.33 < 0.375 < 0 < 0.133 < 0.571 < 0.0618 Selenium mg/l < 0.0050 < 0.0050 0.0014 J < 0.0050 < 0.0050 < 0.0050 Thallium mg/l < 0.0010 < 0.0010 < 0.0010 < 0.0010 < 0.0010 < 0.0010

### Notes:

1. 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).

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

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### Table 6b

Upgradient Groundwater Analytical Data - February 2022 2022 Semiannual Groundwater Monitoring and Corrective Action Report Georgia Power Company



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

	Analyte	Units	YGWA-20S YGWA-20S_20220209 2/9/2022	YGWA-21I YGWA-21I_20220209 2/9/2022	YGWA-30I YGWA-30I_20220211 2/11/2022	YGWA-39 YGWA-39_20220208 2/8/2022	YGWA-40 YGWA-40_20220208 2/8/2022	YGWA-47 YGWA-47_20220208 2/8/2022
	рН	SU	5.91	6.84	5.59	5.78	5.26	5.40
	Boron	mg/l	< 0.040	< 0.040	< 0.040	0.13	0.074	0.015 J
	Calcium	mg/l	2.3	9.8	1.5	15.2	6.0	9.4
Appendix III	Chloride	mg/l	2.8	1.7	2.1	7.4	6.2	3.2
	Fluoride	mg/l	< 0.10	0.10	< 0.10	0.052 J	< 0.10	< 0.10
	Sulfate	mg/l	< 1.0	3.9	2.8	14.6	17.9	50.9
	Total Dissolved Solids	mg/l	72.0	131	66.0	248	93.0	151
	Antimony	mg/l	< 0.0030	< 0.0030	< 0.0030	< 0.0030	< 0.0030	< 0.0030
	Arsenic	mg/l	0.0021 J	0.0036 J	0.0014 J	0.0034 J	0.0030 J	0.0027 J
	Barium	mg/l	0.014	0.011	0.0077	0.041	0.039	0.030
	Beryllium	mg/l	0.000077 J	< 0.00050	< 0.00050	< 0.00050	0.00028 J	0.000056 J
	Cadmium	mg/l	< 0.00050	< 0.00050	< 0.00050	0.00063	< 0.00050	< 0.00050
	Chromium	mg/l	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Appandix IV	Cobalt	mg/l	< 0.0050	0.0078	0.0038 J	0.0012 J	< 0.0050	0.0013 J
Appendix IV	Lead	mg/l	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
	Lithium	mg/l	0.00082 J	0.0061 J	0.0014 J	0.0080 J	0.00076 J	0.0039 J
	Mercury	mg/l	< 0.00020	< 0.00020	< 0.00020	< 0.00020	0.00013 J	< 0.00020
	Molybdenum	mg/l	< 0.010	< 0.010	< 0.010	0.0035 J	< 0.010	< 0.010
	Combined Radium - 226/228	pCi/l	< 0.504	1.94	< 0.268	0.834	< 0.534	< 0.400
	Selenium	mg/l	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0014 J	< 0.0050
	Thallium	mg/l	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010

### Notes:

1. 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.

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Constituent	Units	Background	GWPS
February 2022 (AP-3, A, B, B', R6 Landfill)			
Antimony	mg/L	0.0047	0.006
Arsenic	mg/L	0.005	0.010
Barium	mg/L	0.071	2
Beryllium	mg/L	0.0005	0.004
Cadmium	mg/L	0.00063	0.005
Chromium	mg/L	0.0093	0.100
Cobalt	mg/L	0.035	0.035 <sup>3</sup>
Fluoride	mg/L	0.680	4
Lead	mg/L	0.0013	0.015
Lithium	mg/L	0.030	0.040
Mercury	mg/L	0.0002	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>3</sup>

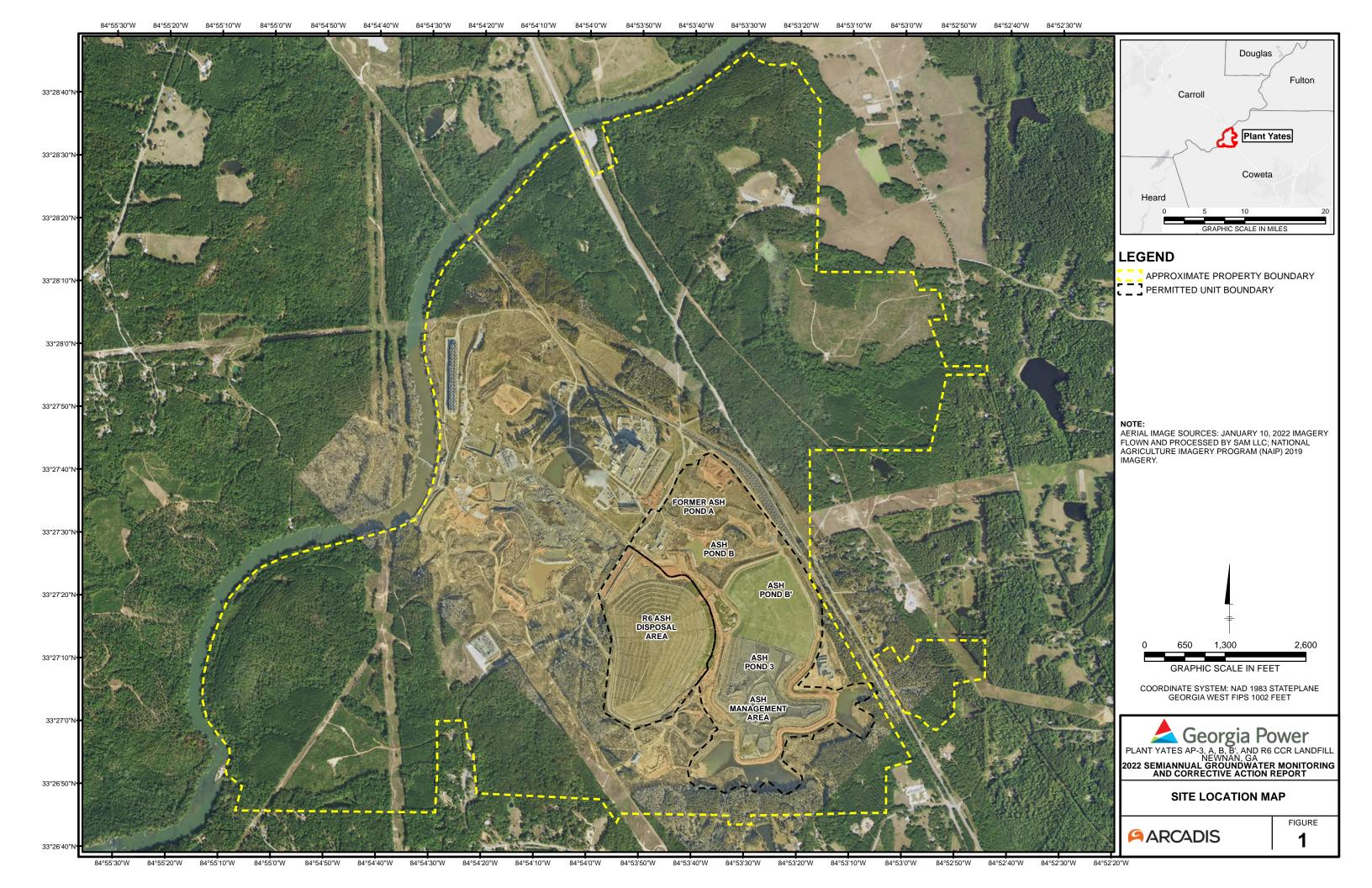
- 1. Site background: Tolerance limits calculated from pooled upgradient well data.
- 2. GWPS = Groundwater Protection Standard per 40 CFR §257.95(h). On February 22, 2022, the GA EPD updated the Rules for Solid Waste Management 391-3-4-.10(6) to incorporate updated Federal GWPS for cobalt, lead, molydenum, and lithium.
- 3. 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

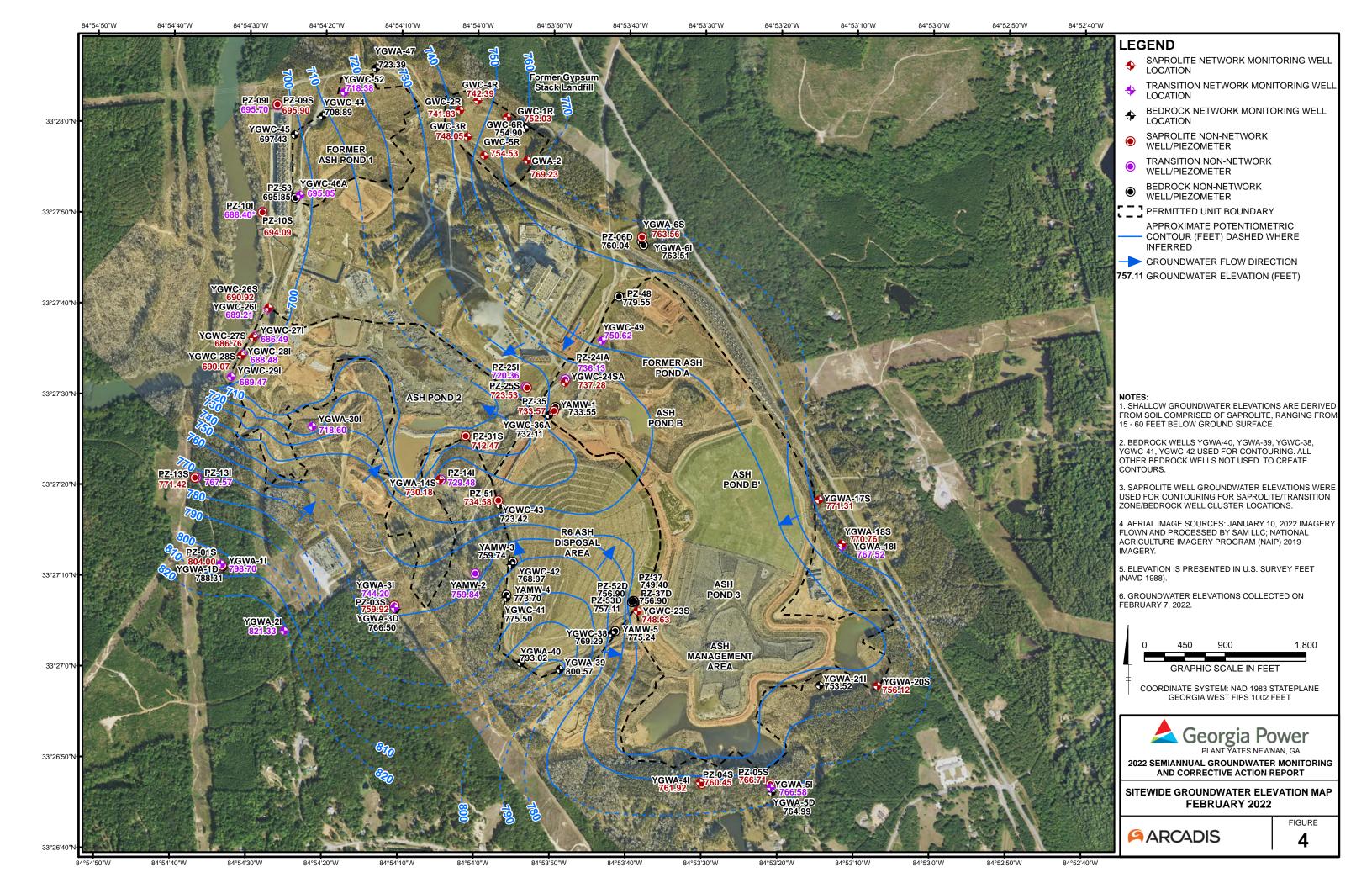
pCi/L = picocuries per liter

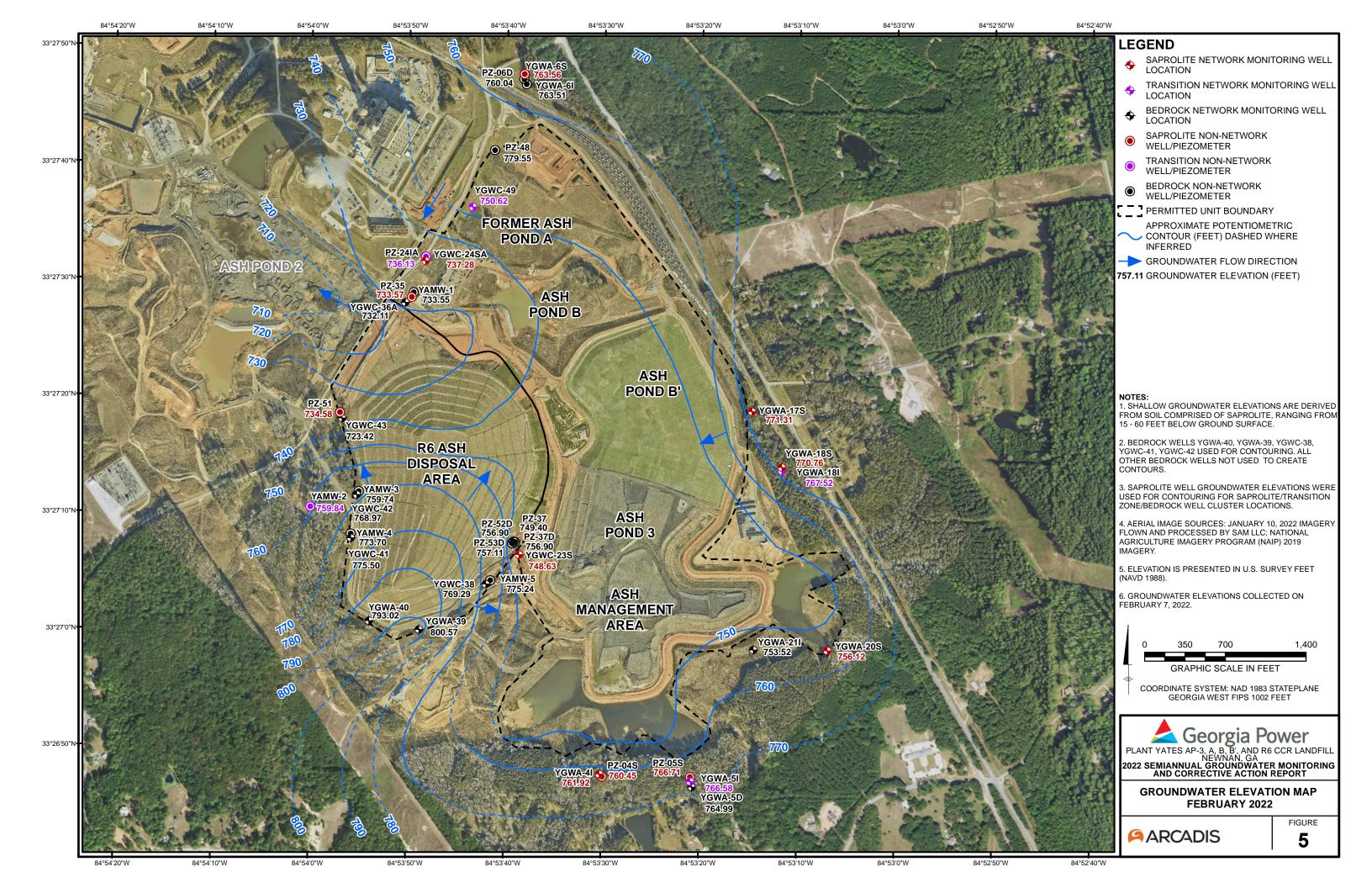
## **Figures**











## **Appendix A**

Field Sampling and Well Inspection Forms (February 2022)

Project Plant Yates

Field Staff: Mark Chest / Kim Lapsynski / Jessica Ware / Khalil Carson

Instrument Calibration
Date: 02/8/2022 Initial

Parameter	Units	Standard	SmarTROLL SN 464818 (Mark Chest)	SmarTROLL SN 514308 (Jessica Ware & Kim Lapszynski)	YSI 556 U82097X (Kim Lapszynski)	SmarTROLL SN 613192 (Khalil Carson)
DO	% saturation	100	100	100	NA*	100
Conductivity	us/cm	1409	8000	1409	NA*	8000
pН	S.U.	4.00	4.00	4.00	NA*	4.00
pН	S.U.	7.00	7.08	7.06	NA*	7.00
рН	S.U.	10.00	10.01	9.99	NA*	10.00
ORP	mV	220.0	252.1	220.0	NA*	232.0

HACH/Geotech Standard	Units	НАСН	HACH U89261X	Geotech V94550X (Kim Lapszynski)	НАСН
20	NTU	20.2	9.7	NA*	20.1
100	NTU	102	20	NA*	99.6
800	NTU	801	101	NA*	803
10 / <0.10	NTU	10.3	804	NA*	10.1

Date: 2/8/2022 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 464818 (Mark Chest)	SmarTROLL SN 514308 (Jessica Ware)	YSI 556 U82097X (Kim Lapszynski)	SmarTROLL SN 613192 (Khalil Carson)
DO	% saturation	100	100	NA*	100	100
Conductivity	us/cm	1409	1413	NA*	1409	8000
pН	S.U.	4.00	4.00	NA*	4.00	4.00
pН	S.U.	7.00	7.06	NA*	7.00	7.00
pН	S.U.	10.00	10.08	NA*	10.00	10.00
ORP	mV	220.0	237.8	NA*	220.0	232.0

HACH/Geotech Standard	Units	НАСН	HACH U89261X	Geotech V94550X (Kim Lapszynski)	НАСН
20	NTU		19.7	**	
100	NTU		100	**	
800	NTU		794	**	
10 / <0.10	NTU	10.2	9.88	**	10.1

#### Notes:

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

Quick Cal solution standard is dependant on temperature and will fluctuate

NA = Not Applicable

-- calibration not conducted

\* Equipment not available or broken

\*\* Mid-day Calibration was conducted but data not recorded

Project Plant Yates

Field Staff: Mark Chest / Kim Lapsynski / Jessica Ware / Khalil Carson

## Instrument Calibration Date: 02/9/2022 Initial

Parameter	Units	Standard	SmarTROLL SN 464818 (Mark Chest)	SmarTROLL SN 514308 (Kim Lapszynski)	YSI 556 U82097X (Jessica Ware)	SmarTROLL SN 613192 (Khalil Carson)
DO	% saturation	100	100	100	100.3	100
Conductivity	us/cm	1409	1413	1409	1407	1409
pН	S.U.	4.00	4.01	400	3.97	4.00
pН	S.U.	7.00	7.12	7.06	7.00	7.02
pН	S.U.	10.00	10.16	10.00	9.99	10.08
ORP	mV	220.0	256.8	220.0	220.0	220.0

HACH/Geotech Standard	Units	HACH (Mark Chest)	Geotech V94550X (Kim Lapszynski)	HACH U89261X (Jessica Ware)	HACH (Khalil Carson)
20	NTU	19.9	20.0	20.2	19.9
100	NTU	99.6	100.0	101	99.8
800	NTU	791	800.0	800	797
10 / <0.10	NTU	10.0	< 0.10	9.25	9.18

Date: 2/8/2022 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 464818 (Mark Chest)	SmarTROLL SN 514308 (Kim Lapszynski)	YSI 556 U82097X (Jessica Ware)	SmarTROLL SN 613192 (Khalil Carson)
DO	% saturation	100	100	100	99.9	NA*
Conductivity	us/cm	1409	1413	1409	1411	NA*
pН	S.U.	4.00		4.00	4.02	NA*
pН	S.U.	7.00	7.00	7.02	7.01	NA*
pН	S.U.	10.00		10.08	9.92	NA*
ORP	mV	220.0	231	220.0	220.0	NA*

HACH/Geotech Standard	Units	HACH (Mark Chest)	Geotech V94550X (Kim Lapszynski)	HACH U89261X (Jessica Ware)	HACH (Khalil Carson)
20	NTU		**	19.7	NA*
100	NTU		**	100	NA*
800	NTU		**	799	NA*
10 / <0.10	NTU	10.2	**	9.87	NA*

#### Notes:

 $\label{eq:continuous} \begin{tabular}{ll} DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nephelometric Turbidity Units; NC - Not calibrated \end{tabular}$ 

Quick Cal solution standard is dependant on temperature and will fluctuate

NA = Not Applicable

-- calibration not conducted

\* Unable to Calibration due to long purge time at midday

\*\* Mid-day Calibration was conducted but data not recorded

Project Plant Yates

Field Staff: Kim Lapsynski / Jessica Ware / Khalil Carson

Instrument Calibration
Date: 02/11/2022 Initial

Parameter	Units	Standard	SmarTROLL SN 464818 (Kim Lapszynski)	SmarTROLL SN 514308 (Jessica Ware)	SmarTROLL SN 613192 (Khalil Carson)
DO	% saturation	100	100	100	100
Conductivity	us/cm	1409	1409	1409	1409
pН	S.U.	4.00	4.00	4.00	4.00
pН	S.U.	7.00	7.06	7.02	7.02
pН	S.U.	10.00	10.16	10.12	10.05
ORP	mV	220.0	220.0	220.0	220.0

HACH/Geotech Standard	Units	Geotech V100820X (Kim Lapszynski)	HACH U89261X (Jessica Ware)	HACH (Khalil Carson)
20	NTU	20.0	20.0	19.8
100	NTU	100.0	104	99.6
800	NTU	800.0	793	788
10 / < 0.10	NTU	< 0.10	9.47	10.2

Date: 2/8/2022 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 464818 (Kim Lapszynski)	SmarTROLL SN 514308 (Jessica Ware)	SmarTROLL SN 613192 (Khalil Carson)
DO	% saturation	100	NA*	100	NA*
Conductivity	us/cm	1409	NA*	1409	NA*
pН	S.U.	4.00	NA*	4.00	NA*
pН	S.U.	7.00	NA*	7.02	NA*
pН	S.U.	10.00	NA*	10.04	NA*
ORP	mV	220.0	NA*	220.0	NA*

HACH/Geotech Standard	Units	Geotech (Kim Lapszynski)	HACH U89261X (Jessica Ware)	HACH (Khalil Carson)
20	NTU	NA*	**	NA*
100	NTU	NA*	**	NA*
800	NTU	NA*	**	NA*
10 / <0.10	NTU	NA*	**	NA*

#### Notes:

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

Quick Cal solution standard is dependant on temperature and will fluctuate

<sup>--</sup> calibration not conducted

<sup>\*</sup> Half day

<sup>\*\*</sup> Mid-day Calibration was conducted but data not recorded

Project Plant Yates

Field Staff: Mark Chest / Kim Lapsynski / Jessica Ware / Khalil Carson

#### Instrument Calibration

Date: 02/10/2022 Initial

Parameter	Units	Standard	SmarTROLL SN 464818 (Mark Chest)	SmarTROLL SN 514308 (Kim Lapszynski)	SmarTROLL SN 514308 (Jessica Ware)	SmarTROLL SN 613192 (Khalil Carson)
DO	% saturation	100	100	100	100	100
Conductivity	us/cm	1409	1413	1409	1409	1409
рН	S.U.	4.00	4.00	4.00	4.00	4.00
рН	S.U.	7.00	7.06	7.06	7.06	7.02
рН	S.U.	10.00	10.12	10.12	10.08	10.08
ORP	mV	220.0	246.1	252.8	220.0	220.0

HACH/Geotech Standard	Units	(Mark Chest) (Kim Lapszynski)		HACH U89261X (Jessica Ware)	HACH (Khalil Carson)
20	NTU	19.9	20.0	19.8	20.7
100	NTU	101	100.0	101	104
800	NTU	797	800.0	799	827
10 / < 0.10	NTU	10.1	< 0.10	9.35	10

#### Date: 2/8/2022 Time: Midday

	,					
Parameter	Units	Standard	SmarTROLL SN 464818 (Mark Chest)	YSI 556 100686 (Kim Lapszynski)	SmarTROLL SN 514308 (Jessica Ware)	SmarTROLL SN 613192 (Khalil Carson)
DO	% saturation	100	100	100	100	100
Conductivity	us/cm	1409	1413	1406	1409	1409
рН	S.U.	4.00		7.00	4.00	4.00
рН	S.U.	7.00	7.00	4.00	7.02	7.02
рН	S.U.	10.00		9.99	10.04	10.08
ORP	mV	220.0	230	220	220.0	220.0

HACH/Geotech Standard	Units	HACH (Mark Chest)	Geotech (Kim Lapszynski)	HACH U89261X (Jessica Ware)	HACH (Khalil Carson)
20	NTU		**	19.9	**
100	NTU		**	102	**
800	NTU		**	788	**
10 / < 0.10	NTU	9.96	**	9.57	9.94

 $\label{eq:decomposition} DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nephelometric Turbidity Units; NC - Not calibrated$ 

Quick Cal solution standard is dependant on temperature and will fluctuate

NA = Not Applicable

-- Calibration not conducted

\*\* Mid-day Calibration was conducted but data not recorded



Client:				Georgia Power	
Project Locat	ion:			AMA AP-3, A, B and	B'
Date:				2/7/2022	
Sampler:				Jessica Ware	
Equipment:				water probe	
Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
YGWA-4I	2/7/2022	11:16:00	22.29	48.81	
PZ-04S	2/7/2022	11:25:00	23.80	33.33	
PZ-05S	2/7/2022	11:29:00	17.93	41.94	
YGWA-5I	2/7/2022	11:32:00	17.96	58.94	
YGWA-5D	2/7/2022	11:34:00	19.54	129.13	
YGWA-20S	2/7/2022	11:44:00	11.00	29.52	
YGWA-21I	2/7/2022	11:53:00	30.18	79.90	1154 transducer removed to gauge well
YGWA-17S	2/7/2022	12:25:00	11.74	39.85	
YGWA-18I	2/7/2022	12:35:00	23.05	79.97	
YGWA-18S	2/7/2022	12:39:00	19.81	39.97	
YGWA-6I	2/7/2022	12:51:00	19.22	69.03	
YGWA-6S	2/7/2022	12:54:00	18.91	39.87	
PZ-06D	2/7/2022	12:56:00	21.98	134.02	
PZ-48	2/7/2022	13:01:00	20.28	58.73	Surrounded by thorns
YGWC-49	2/7/2022	13:07:00	32.11	78.53	
PZ-24IA	2/7/2022	13:14:00	28.20	89.85	
YGWC- 24SA	2/7/2022	13:17:00	27.72	57.00	
YAMW-1	2/7/2022	13:23:00	10.28	69.93	Transducer moved at 1325
PZ-35	2/7/2022	13:27:00	10.24	50.01	Transducer moved
PZ-37D	2/7/2022	14:23:00	4.22	202.44	
YGWC-23S	2/7/2022	14:46:00	16.32	38.91	Transducer moved



Client:				Georgia Power				
Project Locati	ion:	AMA R6 CCR Landfill						
Date:				2/7/2022				
Sampler:				Jessica Ware				
Equipment:				AMA R6 CCR Landfill  2/7/2022  Jessica Ware  water probe  Depth to Well Depth (ft) Comments				
Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments			
YGWC-36A	2/7/2022	13:31:00	8.77	51.20	Transducer moved at 1332			
YAMW-3	2/7/2022	13:44:00	36.31	91.44				
YGWC-42	2/7/2022	13:47:00	28.89	59.76				
YAMW-4	2/7/2022	13:52:00	31.89	96.55				
YGWC-41	2/7/2022	13:55:00	28.42	67.32				
YGWA-40	2/7/2022	14:00:00	22.71	48.23				
YGWA-39	2/7/2022	14:05:00	17.62	68.59				
PZ-53D	2/7/2022	14:18:00	5.89	160.00				
PZ-52D	2/7/2022	14:22:00	5.69	92.00				
PZ-37	2/7/2022	14:26:00	11.38	49.78				
YGWC-38	2/7/2022	14:33:00	30.40	50.59	Transducer moved			
YAMW-5	2/7/2022	14:40:00	13.66	90.34				
YGWC-43	2/7/2022	14:59:00	21.54	79.66				
PZ-51	2/7/2022	15:06:00	9.72	36.00				



Client:				Georgia Power			
Project Locat	ion:			AMA R6 CCR Landfill			
Date:			2/7/2022				
Sampler:				Khalil Carson			
Equipment:				water probe			
Well	Date	Time	Time Depth to Well Depth (ft) Comments Water (ft)				
YAMW-2	2/7/2022	15:20:00	21.20	46.48			



Project Number	30052923	Well ID	YGWC-38			Date	02/10/2022
Project Location	AMA R6 CCR Landfill		Weather(°F)	41.2 degrees F and Clear. The wind is blowing W/SW			√ at 4.7 mph.
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	39.59	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	30.41	Total Depth (ft- bmp)	50.59	Water Column(ft)	20.18	Gallons in Well	3.28
MP Elevation	799.69	Pump Intake (ft- bmp)	45	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	09:50	Well Volumes Purged	0.43	Sample ID	YGWC-38	Sampled by	Kim Lapszynski
Purge Start	09:15	Gallons Purged	1.42	Replicate/ Code No.		Color	Clear
		-					

Purge End 09:47

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
09:15:00	00:00	250	30.41	7.48	752.01	1.75	10.51	11.6	173.03
09:20:00	05:00	250	31.72	5.07	691.75	26.8	3.58	15.9	191.99
09:25:00	10:00	150	31.66	5.01	688.64	12.3	3.50	15.3	185.03
09:30:00	15:00	150	31.41	4.94	687.01	4.78	3.53	15.2	180.98
09:35:00	19:30	150	31.27	4.91	688.65	2.92		15.4	177.85
09:41:00	25:31	150	31.19	4.87	689.73	3.17		15.5	173.07
09:44:00	29:17	150	31.17	4.85	689.45	1.75		15.7	169.91

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
CI, F, SO4	250 mL Plastic	1	None
Appendix III/IV Metals	250 mL Plastic	1	HNO3

Comments: Transducer in well.

0942 called Becky Steever about tech issues with Aqua Troll 600. During test an error message Sensor Changed- installed sensors are different than the sensors that were last connected Once reconnected stopped recording DO readings. Becky said to collect sample with readings recorded and call Insitu for tech support.

#### **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



Project Number	30053438		Well ID	YGWC-4	43			Date	02/08/2	2022
Project Locatio	n AMA R6 C	AMA R6 CCR Landfill		Weather(°F) 36.0 degrees F and Clear. The w		ar. The wind is t	s blowing N at 10.3 mph.			
Measuring Pt. Description	Top of Inn	er Casing	Screen Setting (ft-bm)	o) 69.16	Casing Diameter	(in) <sup>2</sup>		Vell Casing Material	PVC	
Static Water Level (ft-bmp)	21.53		Total Depth (ft bmp)	79.66	Water Column(f	58.13	-	Gallons in Well	9.45	
MP Elevation	744.96		Pump Intake (f	f <b>t-</b> 75	Purge Me	ethod Low-Flo		Sample Method	Low-Flo	ow
Sample Time	10:20		Well Volumes Purged	0.16	Sample II	D YGWC-	-43 <b>S</b>	Sampled by	Jessica	ware
Purge Start	09:51		Gallons Purge	<b>d</b> 1.52	Replicate Code No.		C	Color	Clear	
Purge End	10:32									
Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperat °C	ture	Redox (mV)
09:51:00	00:00	150	21.53	6.65	199.43	0.72	6.02	14.4		-44.56

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
09:51:00	00:00	150	21.53	6.65	199.43	0.72	6.02	14.4	-44.56
09:56:00	05:00	250	21.7	5.96	292.18	5.39	0.74	16.3	-122.23
10:01:00	10:00	250	21.74	5.86	361.43	6.51	0.26	16.5	-89.69
10:06:00	15:00	250	21.81	5.83	376.81	3.98	0.16	16.7	-90.70
10:11:00	20:00	250	21.83	5.81	382.39	1.63	0.13	16.7	-94.73
10:16:00	25:00	250	21.84	5.82	383.87	1.36	0.13	16.7	-99.81

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
CI, F, SO4	250 mL Plastic	1	None
Appendix III/IV Metals	250 mL Plastic	1	HNO3

#### Comments:

#### **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



roject Numbe	er 30053438		Well ID	YAMW-3	3			Date	02/10/202	22
Project Location	on AMA R6 C0	CR Landfill		Weather	r(°F) Sunny, clea	ır, 67 degrees	Fahrenheit			
Measuring Pt. Description	Top of Inne	r Casing	Screen Setting (ft-bmp)	81.45	Casing Diameter (i	n) <sup>2</sup>		Well Casing Material	PVC	
Static Water Level (ft-bmp)	36.23		Total Depth (ft-b	<b>mp)</b> 91.44	Water Column(ft)	55.21		Gallons in Well	8.97	
MP Elevation	796.05		Pump Intake (ft- bmp)	86	Purge Method Low-Flow		/	Sample Method		1
Sample Time	15:35		Well Volumes Purged	0.20	Sample ID	YAMW-3	3	Sampled by	Jessica V	Vare
Purge Start	14:11		Gallons Purged	1.78	Replicate/ Code No.			Color	Clear	
Purge End	17:08									
Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperat °C	ture	Redox (mV)
14:11:00	00:00	150	36.23	6.22	735.19	19.33	4.55	22.8		-290.52
14:16:00	05:00	150	36.77	5.76	939.43	6.6	0.66	18.8		-258.08
14:21:00	10:00	100	37.56	5.64	866.24	4.85	0.45	18.8		-243.06
14:26:00	15:00	100	37.91	5.65	900.99	7.7	0.41	19.4		-243.44
14:31:00	20:00	100	38.16	5.73	847.73	6.56	0.46	19.1		-246.3
14:36:00	25:00	100	38.43	5.79	816.18	6.78	0.46	18.9		-248.26
14:41:00	30:00	100	38.71	5.83	825.14	11.2	0.46	18.7		-250.04
14:46:00	35:00	100	38.96	5.86	767.6	6.45	0.44	19		-254.42
14:51:00	40:00	50	39.01	5.91	759.99	6.43	0.43	19.7		-257.75
14:56:00	45:00	50	39.06	5.95	750.59	6.58	0.45	20.1		-255.88
15:01:00	50:00	50	39.96	5.97	764.42	6.36	0.44	21.4		-258.53
15:06:00	55:00	50	39.81	5.99	743.48	6.33	0.44	22.1		-258.85
15:11:00	00:00	50	38.77	6.02	841.19	6.11	0.52	20.6		-257.89
15:16:00	05:00	50	38.83	5.99	818.16	6.03	0.53	20.8		-253.89
15:21:00	10:00	50	38.81	5.96	802.22	5.59	0.53	20.5		-247.69
15:26:00	15:00	50	38.73	5.94	784.24	4.33	0.51	20.3		-243.74
15:31:00	20:00	50	38.76	5.94	761.08	3.36	0.49	19.9		-239.72
15:36:00	25:00	50	38.76	5.93	803.02	3.83	0.45	20.1		-239.5
Constituent Sa	ımpled			Container 500 mL Plastic			Number 1		reservativ	e
RAD 9315/9320	)		<del></del>	L Plastic			2		NO3	
CI, F, SO4				250 mL Plastic		•	1	No.	one	
App III/IV Metal			<del>-</del>	250 mL Plastic		•	1	_ <del>_</del>	NO3	

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

Condition of Well:

Well Completion: NA



Project Numbe	er 30053438		Well ID	YAMW-4				Date	02/10/20	)22
Project Location	on AMA R6 C0	CR Landfill		Weather	(°F) Sunny, cle	ear, 60 degrees	Fahrenheit			
Measuring Pt. Description	Top of Inne	r Casing	Screen Setting (ft-bmp)	86.59	Casing Diameter	(in) <sup>2</sup>		Well Casing Material	PVC	
Static Water Level (ft-bmp)	31.81		Total Depth (ft-k	omp) 96.55	Water Column(ft	64.74		Gallons in Well	10.52	
MP Elevation	805.59		Pump Intake (ft- bmp)	91.55	Purge Me	thod Low-Flow	N	Sample Method	Low-Flo	w
Sample Time	12:00		Well Volumes Purged	0.08	Sample ID	YAMW-	4	Sampled by	Jessica	Ware
Purge Start	11:33		Gallons Purged	0.79	Replicate/ Code No.	1		Color	Clear	
Purge End	13:13									
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)
11:33:00	00:00	200	31.81	7.11	476.56	2.28	8.98	18		150.31
11:38:00	05:00	100	32.68	6.1	493.34	0.37	2.25	18.5		146.12
11:43:00	10:00	100	33.01	6.05	499.94	2.34	1.24	18.4		105.35
11:48:00	15:00	100	33.23	6.05	505.52	4.64	0.88	18.6		122.95
11:53:00	20:00	100	33.31	6.08	505.41	3.55	0.78	19.2		141.71
11:58:00	25:00	100	33.36	6.1	506.58	2.98	0.75	19.3		150.81
Constituent Sa	ampled			Container			Number	Р	reservati	ve
TDS				500 mL Plastic			1	N	one	
RAD 9315/9320	0			1L Plastic		•	2	H	NO3	
CI, F, SO4				250 mL Plastic		•	1	N	one	
App III/IV Metal	ls			250 mL Plastic			1	H	NO3	
Comments:										
Well Casing Vo	olume Conversion	on								
Well diameter (i	inches) = gallons	per foot	1 = 0.04 1.5 = 0. 1.25 = 0.06 2 = 0		.5 = 0.50 6 = 1.47 = 0.65					
Well Information	on									
Well Loca	ation:				Well Locked at A	rrivol:				

Well Locked at Departure:

Key Number To Well: NA



Project Number	30052923	Well ID	PZ-37		Date	02/10/2022
Project Location	AMA R6 CCR Landfill		Weather(°F)	60.3 degrees F and Clear.	The wind is blowing W/N\	V at 5.8 mph.
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	39.28	Casing Diameter (in)	Well Casing Material	PVC
Static Water Level (ft-bmp)	11.41	Total Depth (ft- bmp)	49.78	Water Column(ft) 38.37	Gallons in Well	6.23
MP Elevation	760.78	Pump Intake (ft- bmp)	45	Purge Method Low-Flow	Sample Method	Low-Flow
Sample Time	13:05	Well Volumes Purged	0.49	Sample ID PZ-37	Sampled by	Kim Lapszynski
Purge Start	12:14	Gallons Purged	3.07	Replicate/ Code No.	-4 Color	Clear

Purge End 13:03

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
12:14:00	00:00	250	11.41	5.94	1032.07	0.67	6.77	21.0	82.55
12:19:00	05:00	250	11.68	4.92	998.23	1.51	2.77	18.4	156.38
12:24:00	10:00	250	11.71	4.75	995.58	0.68	2.83	18.1	165.75
12:29:00	15:00	250	11.72	4.67	996.89	1.19	2.86	18.1	168.92
12:30:00	16:32	250	11.72	4.66	997.78	0.87		18.1	169.22
12:35:00	21:32	250	11.78	4.65	998.80	1.67		18.2	169.56
12:40:00	26:32	250	11.78	4.66	998.75	2.31		18.1	168.82
12:45:00	31:32	250	11.77	4.68	1002.46	1.90		17.9	167.75
12:50:00	36:32	250	11.77	4.73	1015.77	1.42		17.9	165.31
12:55:00	41:32	250	11.77	4.78	1024.95	1.25		18.0	162.76
13:00:00	46:32	250	11.77	4.83	1029.29	1.00		18.2	160.24

Constituent Sampled	Container	Number	Preservative	
TDS	500 mL Plastic	2	None	
RAD 9315/9320	1L Plastic	4	HNO3	
CI, F, SO4	250 mL Plastic	2	None	
Appendix III/IV Metals	250 mL Plastic	2	HNO3	
			-	

#### Comments:

Switched to YSI 556(U82097Y) to record readings due to error message on Aqua Troll 600. Stopped recording DO readings in In-Situ

12:46 11.77', 17.32 degrees c, 1006us/cm, 3.84 mg/L, 4.93pH, 224.3mV, 2.16NTU 12:51 11.77', 17.25 degrees c, 1014 us/cm, 3.52mg/L, 4.92pH, 230.7 mV, 1.49NTU 1256 11.77', 17.25 degrees c, 1022 us/cm 3.34mg/L, 4.93pH, 233.9mV, 1.19NTU 1401: 11.77', 17.37 degrees c, 1030us/cm, 3.20mg/L, 4.93pH, 235.8mV, 1.16NTU

#### **Well Casing Volume Conversion**

Well diameter (inches) = gallons per foot

Well Location:

Well Completion: NA

Condition of Well:



Project Numbe	er 30053438		Well ID	YAMW-2	2			Date	02/10/2	:022
Project Location	on AMA R6 C0	CR Landfill		Weathe	r(°F) Clear, sunn	y, 41 degrees	Fahrenheit			
Measuring Pt. Description	Top of Inne	r Casing	Screen Setting (ft-bmp)	36.44	Casing Diameter (	in) <sup>2</sup>		Well Casing Material	PVC	
Static Water Level (ft-bmp)	21.15		Total Depth (ft-l	omp) 46.48	Water Column(ft)	25.33		Gallons in Well	4.12	
MP Elevation	781.04		Pump Intake (ft- bmp)	. 39	Purge Met	hod Low-Flov	V	Sample Method	Low-Flo	ow
Sample Time	09:45		Well Volumes Purged	0.48	Sample ID	YAMW-2	2	Sampled by	Jessica	Ware
Purge Start	09:12		Gallons Purged	1.98	Replicate/ Code No.			Color	Clear	
Purge End	09:55									
Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Tempera °C	ture	Redox (mV)
09:12:00	00:00	250	21.15	6.45	69.7	1.03	9.96	10.6		185.14
09:17:00	05:00	250	21.31	5.46	60.81	7.36	4.14	15.1		187.21
09:22:00	10:00	250	21.34	5.48	60.29	7.73	3.64	15.4		192.2
09:27:00	15:00	250	21.32	5.51	59.71	3.37	3.61	15.4		201.39
09:32:00	20:00	250	21.36	5.59	59.21	2.07	3.64	15.5		208.36
09:37:00	25:00	250	21.33	5.61	59.07	2.13	3.67	15.5		217.15
09:42:00	30:00	250	21.36	5.64	58.48	2.94	3.71	15.5		222.29
Constituent Sa	ımpled			Container			Number	P	reservat	ive
TDS				500 mL Plastic			1	N	lone	
RAD 9315/9320	)		<del></del>	1L Plastic			2		INO3	
CI, F, SO4			<del>-</del>	250 mL Plastic			1	N	lone	
App III/IV Metal	S		 	250 mL Plastic			1		INO3	
Comments:										
Well Casing Vo	olume Conversion	on								
Well diameter (	inches) = gallons	ner foot	1 = 0.04 1.5 = 0.	00 2 5 - 0 26 3	5 - 0 50 6 - 1 47					

Well Locked at Arrival:

Key Number To Well: NA

Well Locked at Departure:

Well Completion: NA



Project Numbe	r 30053438		Well ID	YAMW-3				Date	02/10/2	022
Project Locatio	on AMA R6 C0	CR Landfill		Weather	(°F) Sunny, clea	ar, 67 degrees F	ahrenheit			
Measuring Pt. Description	Top of Inne	r Casing	Screen Setting (ft-bmp)	81.45	Casing Diameter (	(in) <sup>2</sup>		Well Casing Material	PVC	
Static Water Level (ft-bmp)	36.23		Total Depth (ft-b	omp) 91.44	Water Column(ft)	55.21		Gallons in Well	8.97	
/IP Elevation	796.05		Pump Intake (ft- bmp)	86	Purge Met	hod Low-Flow		Sample Method	Low-Flo	ow .
Sample Time	15:35		Well Volumes Purged	0.20	Sample ID	YAMW-3		Sampled by	Jessica	Ware
Purge Start	14:11		Gallons Purged	1.78	Replicate/ Code No.			Color	Clear	
Purge End	17:08									
Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperat	ure	Redox (mV)
14:11:00	00:00	150	36.23	6.22	735.19	19.33	4.55	22.8		-290.52
14:16:00	05:00	150	36.77	5.76	939.43	6.6	0.66	18.8		-258.08
14:21:00	10:00	100	37.56	5.64	866.24	4.85	0.45	18.8		-243.06
14:26:00	15:00	100	37.91	5.65	900.99	7.7	0.41	19.4		-243.44
14:31:00	20:00	100	38.16	5.73	847.73	6.56	0.46	19.1		-246.3
14:36:00	25:00	100	38.43	5.79	816.18	6.78	0.46	18.9		-248.26
14:41:00	30:00	100	38.71	5.83	825.14	11.2	0.46	18.7		-250.04
14:46:00	35:00	100	38.96	5.86	767.6	6.45	0.44	19		-254.42
14:51:00	40:00	50	39.01	5.91	759.99	6.43	0.43	19.7		-257.75
14:56:00	45:00	50	39.06	5.95	750.59	6.58	0.45	20.1		-255.88
15:01:00	50:00	50	39.96	5.97	764.42	6.36	0.44	21.4		-258.53
15:06:00	55:00	50	39.81	5.99	743.48	6.33	0.44	22.1		-258.85
15:11:00	00:00	50	38.77	6.02	841.19	6.11	0.52	20.6		-257.89
15:16:00	05:00	50	38.83	5.99	818.16	6.03	0.53	20.8		-253.89
15:21:00	10:00	50	38.81	5.96	802.22	5.59	0.53	20.5		-247.69
15:26:00	15:00	50	38.73	5.94	784.24	4.33	0.51	20.3		-243.74
15:31:00	20:00	50	38.76	5.94	761.08	3.36	0.49	19.9		-239.72
15:36:00	25:00	50	38.76	5.93	803.02	3.83	0.45	20.1		-239.5
Constituent Sa	mpled		(	Container			Number	P	reservati	ive
DS			<u> </u>	500 mL Plastic		_	1	N	one	
RAD 9315/9320				IL Plastic		_	2		NO3	
CI, F, SO4			<u> </u>	250 mL Plastic		_	1		one	
App III/IV Metals	S			250 mL Plastic		_	1	_ <u>H</u>	NO3	
Comments: W	/ell Casing Volu	Called Mar me Conversi	k 15:00 dropped fl <b>on</b>	low rate to 50ml	L/min					
•	nches) = gallons	per foot	1 = 0.04 1.5 = 0.0 1.25 = 0.06 2 = 0		5 = 0.50 6 = 1.47 = 0.65					
Well Informatio	n									
Well Loca	tion:				Well Locked at A	rrival:				
VV CII LOCA										

Key Number To Well: NA



Project Number	30053438	Well ID	YGWC-36A			Date	02/11/2022
Project Location	AMA R6 CCR Landfill		Weather(°F)	Sunny, clear, 4	1 degrees Fahrenheit		
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)	12.02	Total Depth (ft-bmp)	51.2	Water Column(ft)	39.18	Gallons in Well	6.37
MP Elevation	739.61	Pump Intake (ft- bmp)	46	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	11:19	Well Volumes Purged	0.68	Sample ID	YGWC-36A	Sampled by	Jessica Ware
Purge Start	09:12	Gallons Purged	4.36	Replicate/ Code No.		Color	Clear

Purge End 12:13

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)
09:12:00	00:00	250	12.02	6.07	105.21	164.95	6.89	16.1	162.39
09:17:00	05:00	250	12.33	5.54	114.62	140.5	4.61	17.3	156.22
09:22:00	10:00	250	12.16	5.56	110.91	76.6	4.46	17.1	157.05
09:27:00	15:00	250	12.18	5.57	108.17	34.5	4.36	17.3	150.55
09:32:00	20:00	250	12.15	5.57	107.84	17.6	4.34	17.4	150.36
09:37:00	25:00	250	12.23	5.57	106.83	11.4	4.38	17.4	153.25
09:42:00	30:00	250	12.21	5.56	104.14	8.67	4.4	17.5	151.14
09:47:00	35:00	200	12.14	5.56	101.28	7.44	4.36	17.5	151.65
09:52:00	40:00	100	12.06	5.56	99.34	7.33	4.33	17.5	153.82
09:57:00	45:00	100	12.03	5.56	99.67	7.38	4.34	17	159.79
10:02:00	50:00	50	11.93	5.56	99.65	8.14	4.34	16.9	161.54
10:07:00	55:00	50	11.94	5.57	99.61	7.97	4.37	16.7	165.19
10:12:00	00:00	50	11.96	5.57	100.53	8.07	4.39	16.8	167.38
10:17:00	05:00	50	11.96	5.57	101.47	8.93	4.43	16.9	168.99
10:22:00	10:00	50	11.97	5.57	102.2	9.65	4.44	17	170.39
10:27:00	15:00	100	11.98	5.57	102.79	9.95	4.44	16.9	173.17
10:32:00	20:00	100	11.93	5.57	100.8	9.88	4.33	17.4	173.78
10:37:00	25:00	100	11.94	5.57	100.32	9.33	4.22	18.1	174.9
10:42:00	30:00	100	12	5.58	99.72	9.04	4.38	18	172.7
10:47:00	35:00	100	11.97	5.58	100.7	10.01	4.38	17.7	175.12
10:52:00	40:00	100	11.98	5.58	101.41	9.67	4.3	19.2	174.35
10:57:00	45:00	100	12.04	5.58	101.48	11.4	4.33	18.1	176.76
11:02:00	50:00	100	12.02	5.59	102.54	9.24	4.33	18.1	179.2
11:07:00	55:00	100	11.99	5.58	102.25	8.98	4.34	18.3	181.26
11:12:00	00:00	100	12.01	5.58	101.4	8.58	4.29	18.2	183.42

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	1	HNO3

#### Comments:

Well Location:

Well Completion: NA

Condition of Well:



Project Numbe	er 30052923		Well ID	PZ-52D				Date	02/11/202	2
Project Location	Coation   AMA R6 CCR Landfill   Weather(°F)   63.0 degrees F and Clear. The wind is blowing SW at 9.2 (asing planeter (in))   2 (asing planeter (in))   2 (asing planeter (in))   2 (asing planeter (in))   2 (asing planeter (in))   4.66 (asing plan				9.2 mph.					
Measuring Pt. Description	Top of Inne	r Casing		82	•	in) <sup>2</sup>		_	PVC	
Static Water Level (ft-bmp)	4.66		Total Depth (ft-b	omp) 92		87.34			14.19	
MP Elevation	762.79		•	87	Purge Meti	hod Low-Flow		-	Low-Flow	
Sample Time	14:00			0.14	Sample ID	PZ-52D		Sampled by	Kim Lapsz Ware	zynski, Jessic
Purge Start	12:49		Gallons Purged	1.95	-			Color	Clear	
Purge End	13:56									
Time	•		Water	(standard	Conductivity	-	Oxygen	•	ture	Redox (mV)
12:49:00	00:00	200	1 1	6.38	-	20.73		23.1		-99.57
12:54:00	05:00	200	6.23	6.49	647.96	29.3	0.6	18		-142.58
12:59:00	10:00	100	6.8	6.38	628.28	14.4	0.43	18.9		-147.99
13:04:00	15:00	100	6.85	6.37	627.97	12.6	0.54	19.2		-146.34
13:09:00	20:00	100	6.85	6.32	629.32	10.6	0.56	21.8		-143.72
13:14:00	25:00	100	6.82	6.36	627.04	9.69	0.77	19.8		-141.42
13:19:00	30:00	100	6.95	6.42	645.19	9.96	0.73	18.9		-139.91
13:24:00	35:00	100	7.1	6.45	653.23	9.39	0.61	18.9		-138.41
13:29:00	40:00	100	7.28	6.45	653.57	8.96	0.53	19		-136.84
13:34:00	45:00	100	7.38	6.44	643.56	8.15	0.5	19		-135.06
13:39:00	50:00	100	7.46	6.43	627.47	8.12	0.47	19.3		-134.18
13:44:00	55:00	100	7.53	6.43	618.82	7.4	0.45	18.9		-133.05
13:49:00	00:00	75	7.55	6.41	623.81	8.05	0.43	19.5		-130.88
13:54:00	05:00	75	7.58	6.4	604.59	8.02	0.42	19.7		-128.94
Constituent Sa	ımpled			Container		ı	Number	Р	reservative	)
TDS				500 mL Plastic		•	1	N	one	
RAD 9315/9320	)		<del></del>	1L Plastic		7	2		NO3	
Cl, F, SO4				250 mL Plastic		<del>-</del>	1	N	one	
Appendix III/IV I	Metals			250 mL Plastic		<del>-</del>	1	<u>H</u>	NO3	
Comments:										
Well Casing Vo	olume Conversio	on .								
_	inches) = gallons		1 = 0.04 1.5 = 0.0	09 2.5 = 0.26 3	3.5 = 0.50.6 = 1.47					
TTOIL GIGILLOCOL (I					– 0.00 0 – 1.11					

Well Locked at Arrival:

Key Number To Well: NA

Well Locked at Departure:

Condition of Well:

Well Completion: NA



Project Numbe	er 30052923		Well ID	YAMW-5				Date	02/10/202	2
Project Locatio	on AMA R6 C0	CR Landfill		Weather	(°F) Sunny, cle	ar, 60 degrees				
Measuring Pt. Description	Top of Inne	r Casing	Screen Setting (ft-bmp)	80.3	Casing Diameter (	(in) <sup>2</sup>		Well Casing Material	PVC	
Static Water Level (ft-bmp)	13.6		Total Depth (ft-l	omp) 90.34	Water Column(ft	76.74		Gallons in Well	12.47	
MP Elevation	788.9		Pump Intake (ft- bmp)	. 85	Purge Met	thod Low-Flow	1	Sample Method	Low-Flow	
Sample Time	11:30		Well Volumes Purged	0.12	Sample ID	YAMW-5		Sampled by	Kim Lapsz	zynski
Purge Start	10:56		Gallons Purged	1.52	Replicate/ Code No.			Color	Clear	
Purge End	11:26									
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	ture	Redox (mV)
10:56:00	00:00	200	13.6	5.08	778.27	0	3.29	16.6		73.62
11:01:00	05:00	200	14.52	4.98	742.44	0	2.19	16.6		85.51
11:05:00	08:41	200		5	724.18	0.87	2.19	16.6		88.35
11:10:00	13:41	200	14.83	5.05	709.67	0.53	2.26	16.7		90.03
11:15:00	18:41	200	14.95	5.12	707.55	0.44	2.26	16.7		89.11
11:20:00	23:41	200	15.06	5.19	707.77	0.42	2.26	16.8		88.45
11:25:00	28:41	200	15.18	5.22	708.81	0.36	2.21	16.8		89.09
Constituent Sa	mpled			Container 500 mL Plastic			Number 1		reservative	,
RAD 9315/9320	1			1L Plastic		_	2		NO3	
I, F, SO4	,			250 mL Plastic		_	1		one	
Appendix III/IV I	Metals			250 mL Plastic	_	-	1		NO3	
Comments:						-				
Well Casing Vo	olume Conversion	on								
Well diameter (i	nches) = gallons	per foot	1 = 0.04 1.5 = 0. 1.25 = 0.06 2 = 0		5 = 0.50 6 = 1.47 = 0.65					
Well Information	on									
Well Loca	ation:				Well Locked at A	rrival:				

Well Locked at Departure:

Key Number To Well: NA

Well Location:

Well Completion: NA

Condition of Well:



Project Numbe	r 30052923		Well ID	PZ-51				Date	02/10/20	)22
Project Locatio	n AMA R6 C0	CR Landfill		Weathe	r(°F) 65.8 degre	es and Clear				
Measuring Pt. Description	Top of Inne	r Casing	Screen Setting (ft-bmp)	26.3	Casing Diameter	(in) <sup>2</sup>		Well Casing Material	PVC	
Static Water Level (ft-bmp)	9.72		Total Depth (ft-k	omp) 36	Water Column(ft	26.28		Gallons in Well	4.27	
MP Elevation	744.3		Pump Intake (ft- bmp)	. 33	Purge Me	thod Low-Flow	N/	Sample Method	Low-Flo	W
Sample Time	18:10		Well Volumes Purged	0.43	Sample ID	PZ-51		Sampled by	Kim Lap Ware	oszynski, Jessid
Purge Start	17:33		Gallons Purged	1.85	Replicate/ Code No.	1		Color	Clear	
Purge End	18:09									
Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperate °C	ture	Redox (mV)
17:33:00	00:00	200	9.72	4.81	749.91	5.96	4.44	16.7		197.64
17:38:00	05:00	200	10.18	4.51	738.17	14.1	3.35	16.6		219.49
17:43:00	10:00	200	10.27	4.44	726.11	13.1	3.61	16.4		224.11
17:48:00	15:00	200	10.28	4.42	724.04	8.57	3.54	16.3		222.32
17:53:00	20:00	200	10.31	4.43	723.87	6.43	3.53	16.2		221.36
17:58:00	25:00	200	10.27	4.43	724.08	4.96	3.48	16.1		218.03
18:03:00	30:00	200	10.31	4.44	724.43	3.7	3.42	16.1		219.87
18:08:00	35:00	200	10.3	4.46	724.88	3.26	3.42	16		224.81
Constituent Sa	mpled			Container 500 mL Plastic			Number		reservati one	ve
RAD 9315/9320	1		<del>-</del>	1L Plastic		•	2	H	NO3	
CI, F, SO4			<del></del>	250 mL Plastic		•	1	N	one	
Appendix III/IV			<del></del>	250 mL Plastic		•	1	H	NO3	
Comments:										
Well Casing Vo	lume Conversion	on								
Well diameter (i	nches) = gallons	per foot	1 = 0.04 1.5 = 0.1 1.25 = 0.06 2 = 0		.5 = 0.50 6 = 1.47 = 0.65					

Well Locked at Arrival:

Key Number To Well: NA

Well Locked at Departure:



Project Number	30052923	Well ID	PZ-35			Date	02/10/2022
Project Location	AMA AP-3, A, B and B'		Weather(°F)	65.8 degrees F	and Clear. The wind is	blowing W/SW	at 6.9 mph.
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	38.91	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	11.71	Total Depth (ft-bmp)	50.01	Water Column(ft)	38.3	Gallons in Well	6.22
MP Elevation	743.81	Pump Intake (ft- bmp)	45	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	14:37	Well Volumes Purged	0.52	Sample ID	PZ-35	Sampled by	Mark Chest
Purge Start	12:40	Gallons Purged	3.22	Replicate/ Code No.		Color	Clear

Purge End 14:35

ruige Ellu	14.55								
Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
12:40:00	00:00	200	11.71	5.14	154.22	14.62	4.96	19	225.37
12:45:00	05:00	200	11.91	4.88	168.17	20.03	3.97	18.7	185.46
12:50:00	10:00	200	11.91	4.87	162.04	8.16	4	18.5	150.97
12:55:00	15:00	100	11.95	4.88	160.68	9.32	3.99	18.6	150.68
13:00:00	20:00	100	11.88	4.91	160.44	7.15	3.99	18.8	135.5
13:05:00	25:00	100	11.88	4.92	160.96	6.36	3.99	18.8	138.81
13:10:00	30:00	100	11.88	4.94	159.95	5.85	4.02	18.9	141.67
13:15:00	35:00	100	11.88	4.97	160.7	6.72	4.03	18.7	147.58
13:20:00	40:00	100	11.88	5	161.18	6.08	4.03	18.9	152.65
13:25:00	45:00	100	11.88	5.05	160.98	6.13	4.05	18.8	150.92
13:30:00	50:00	100	11.88	5.08	160.94	6.12	4.02	18.9	154.28
13:35:00	55:00	100	11.88	5.11	159.93	6.2	4.03	18.7	156.71
13:40:00	00:00	100	11.88	5.15	160.56	6.14	4.04	18.7	161.2
13:45:00	05:00	100	11.88	5.21	160.72	6.09	4.04	18.9	164.34
13:50:00	10:00	100	11.88	5.25	160.82	6.45	4.04	18.9	162.52
13:55:00	15:00	80	11.8	5.28	160.58	6.62	4.03	19.1	158.16
14:00:00	20:00	80	11.8	5.35	160.74	6.02	4.01	19.3	162.06
14:05:00	25:00	80	11.8	5.4	162.95	6.49	4.04	19.3	159.34
14:10:00	30:00	80	11.8	5.39	162.07	6.88	4.28	18.4	158.77
14:15:00	35:00	80	11.8	5.28	159.88	6.5	4.03	18.4	177.94
14:20:00	40:00	80	11.8	5.23	165.79	6.01	3.98	18.3	186.7
14:25:00	45:00	80	11.8	5.33	172.97	5.78	3.94	18.9	188.82
14:30:00	50:00	80	11.8	5.4	173.36	4.7	3.96	18.9	186.26
14:35:00	55:00	80	11.8	5.43	167.24	4.53	4.02	19.1	190.1

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

Comments:

Well Casing Volume Conversion

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

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



Project Numbe	er 30053438		Well ID	PZ-37D			1	Date	02/11/2	2022
Project Location	on AMA AP-3,	A, B and B'		Weather	(°F) 63.1 degre	ees F and Clear	. The wind is bl	owing W/SW	at 12.8 n	nph.
Measuring Pt. Description	Top of Inne	r Casing	Screen Setting (ft-bmp)	192.44	Casing Diameter	(in) <sup>2</sup>		Well Casing Material	PVC	
Static Water Level (ft-bmp)	4.91		Total Depth (ft-k	omp) 202.44	Water Column(f	197.53		Gallons in Well	32.1	
MP Elevation	761.12		Pump Intake (ft- bmp)	195	Purge Me	thod Low-Flor	N	Sample Method	Low-Flo	OW
Sample Time	16:35		Well Volumes Purged	0.05	Sample II	PZ-37D	;	Sampled by	Jessica	Ware
Purge Start	15:58		Gallons Purged	1.49	Replicate Code No.	1	(	Color	Clear	
Purge End	17:07									
Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Tempera °C	ture	Redox (mV)
15:58:00	00:00	250	4.91	7.83	511.26	20.93	6.43	18.2		-267.65
16:03:00	05:00	250	10.49	7.8	605.56	2.56	0.49	17.8		-252.3
16:08:00	10:00	125	10.76	7.73	622.66	1.32	0.36	17.8		-249.2
16:13:00	15:00	125	11.22	7.73	610.38	1.78	0.43	17.9		-249.24

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
CI, F, SO4	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	1	HNO3

601.2

597.58

588.66

574.36

1.23

0.97

1.09

1

0.48

0.51

0.51

0.52

17.8

17.9

18

18.1

-250.53

-255.17

-255.9

-259.08

#### Comments:

16:18:00

16:23:00

16:28:00

16:33:00

20:00

25:00

30:00

35:00

125

125

125

125

#### Well Casing Volume Conversion

Well diameter (inches) = gallons per foot  $1 = 0.04 \ 1.5 =$ 

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

7.75

7.78

7.8

7.84

11.66

12.22

12.31

12.38

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

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

Condition of Well:

Well Completion: NA



Project Numbe	er 30052923		Well ID	YAMW-1				Date	02/10/2022	
Project Locatio	on AMA AP-3,	A, B and B'		Weather	(°F) 60.3 degree	es F and Clear.	The wind is b	lowing W/NW	at 5.8 mph.	
Measuring Pt. Description	Top of Inne	r Casing	Screen Setting (ft-bmp)	59.6	Casing Diameter (i	in) <sup>2</sup>		Well Casing Material	PVC	
Static Water Level (ft-bmp)	10.42		Total Depth (ft-k	omp) 69.93	Water Column(ft)	59.51		Gallons in Well	9.67	
MP Elevation	743.83		Pump Intake (ft- bmp)	65	Purge Meth	nod Low-Flow	,	Sample Method	Low-Flow	
Sample Time	11:55		Well Volumes Purged	0.12	Sample ID	YAMW-1		Sampled by	Mark Chest	
Purge Start	11:29		Gallons Purged	1.12	Replicate/ Code No.			Color	Clear	
Purge End	11:54									
Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperate °C		edox mV)
11:29:00	00:00	200	10.42	6.65	321.12	1.66	4.81	17.7	20	00.26
11:34:00	05:00	200	12.17	5.54	418.65	15.9	2.06	18.2	22	25.77
11:39:00	10:00	150	13.9	5.68	368.92	6.86	1.96	18.3	2	18.06
11:44:00	15:00	150	12.55	5.79	369.25	3.45	1.96	18.8	20	08.19
11:49:00	20:00	150	12.57	5.78	390.47	3.33	2.07	18.4	20	08.25
11:54:00	25:00	150	12.9	5.8	383.47	2.69	2.09	18.5	2	08.1
Constituent Sa	mpled			Container 1L Plastic			Number 2		reservative NO3	
Metals				250 mL Plastic		-	1		NO3	
rds .				500 mL Plastic		· <del>-</del>	1	N	one	
CI, F, SO4				250 mL Plastic		-	1	N	one	
Comments:	olume Conversio	on.			_					
_										
Well diameter (i	nches) = gallons	per foot	$1 = 0.04 \ 1.5 = 0.$ $1.25 = 0.06 \ 2 = 0.$		5 = 0.50 6 = 1.47 = 0.65					
Well Informatio	on									
Well Loca	ation:				Well Locked at Ar	rival:				

Key Number To Well: NA

Well Locked at Departure:

Condition of Well:

Well Completion: NA



Project Numbe	r 30053438		Well ID	YGWC-2	4SA			Date	02/10/2	022
Project Locatio	on AMA AP-3,	A, B and B'		Weather	(° <b>F)</b> 67 °F, Sun	ny, winds at	mph.			
Measuring Pt. Description	Top of Inne	r Casing	Screen Setting (ft-bmp)	47	Casing Diameter (	in) <sup>2</sup>		Well Casing Material	PVC	
Static Water Level (ft-bmp)	27.67		Total Depth (ft-k	<b>omp)</b> 57	Water Column(ft)	29.33		Gallons in Well	4.77	
MP Elevation	765		Pump Intake (ft- bmp)	52	Purge Met	hod Low-Flo	OW	Sample Method	Low-Flo	ow
Sample Time	14:40		Well Volumes Purged	0.22	Sample ID	YGWC	-24SA	Sampled by	Khalil C	arson
Purge Start	14:13		Gallons Purged	1.06	Replicate/ Code No.	AMA-D	UP-1	Color	Clear	
Purge End	15:07									
Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Tempera °C	ture	Redox (mV)
14:13:00	00:00	200	27.67	5.96	79.77	29.66	6.91	19		122.94
14:18:00	05:00	200	28.45	4.71	74.51	0.51	6.52	18.5		202.63
14:23:00	10:00	200	28.5	4.69	74.24	2.67	6.6	18.3		217.29
14:28:00	15:00	200	28.52	4.65	74.62	1.07	6.68	18.2		227.5
14:33:00	20:00	200	28.52	4.66	74.76	0.32	6.73	18.2		234.14
Constituent Sa	mpled			Container 500 mL Plastic			Number 2	-	reservati Ione	ive
RAD Chem			<del></del>	1L Plastic			4	H	INO3	
Chloride,Fluoride	e ,Sulfate		<del></del>	250 mL Plastic			2	N	lone	
Vetals			<del>-</del> -	250 mL Plastic			2	H	INO3	
Comments:										
Well Casing Vo	lume Conversion	on								
Well diameter (ii	nches) = gallons	per foot	1 = 0.04 1.5 = 0. 1.25 = 0.06 2 = 0		5 = 0.50 6 = 1.47 = 0.65					
Well Informatio	n									
Well Loca	ition:				Well Locked at A	rival:				

Well Locked at Departure:

Key Number To Well: NA



Project Number	30052916	Well ID	YGWC-23S			Date	02/10/2022
Project Name/Location	GPC Yates Phase I AF	GPC Yates Phase I AP-B Site		64.0 degrees F	and Clear. The wind is	blowing W/SW	at 5.8 mph.
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	28.61-	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	16.28	Total Depth (ft-bmp)	38.91	Water Column(ft)	22.63	Gallons in Well	3.68
MP Elevation	764.91	Pump Intake (ft- bmp)	34	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	15:10	Volumes Purged	0.65	Sample ID	YGWC-23S	Sampled by	Kim Lapszynski
Purge Start	14:35	Gallons Purged	2.38	Replicate/ Code No.			

Purge End 15:05

Time	Minutes	Total	Rate	Depth to Water		pH (standard	Conductivity	Turbidity	Dissolved	Temperature	Redox	Appea	rance
Tille	Elapsed	Elapsed Minutes	mL/min	(ft)	Purged	units)	its) (mS/cm)	(NTU)	Oxygen (mg/L)	°C	(mV)	Color	Odor
14:40	0	0	300	17.18	0.40	5.51	243	34.0	6.81	16.64	182.2	Clear	None
14:45	5	5	300	17.21	0.79	5.50	239	14.1	6.66	16.60	191.4	Clear	None
14:50	5	10	300	17.22	1.19	5.48	234	7.69	6.64	16.57	197.6	Clear	None
14:55	5	15	300	17.23	1.59	5.56	230	4.22	6.56	16.54	202.5	Clear	None
15:00	5	20	300	17.26	1.98	5.54	228	2.11	6.60	16.53	207.1	Clear	None
15:05	5	25	300	17.26	2.38	5.51	228	1.55	6.62	16.48	211.4	Clear	None

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
Appendix III/IV Metals	250 mL Plastic	1	HNO3

Comments: Transducer in well.

Well Casing Volume Conversion

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

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

Well Information

Well Location: AMA Well Locked at Arrival: yes Condition of Well: Good condition Well Locked at Departure: yes Well Completion: Stick-up Key Number To Well: NA

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



Project Number	30052916	Well ID	YGWC-42			Date	02/10/2022
Project Name/Location	GPC Yates Phase I AF	P-B Site	Weather(°F)	65.8 degrees F	and Clear. The wind is	s blowing W/SW	at 6.9 mph.
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)		Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	28.85	Total Depth (ft-bmp)	59.76	Water Column(ft)	30.91	Gallons in Well	5.02
MP Elevation	797.86	Pump Intake (ft- bmp)	55	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	16:35	Volumes Purged	0.14	Sample ID	YGWC-42	Sampled by	Kim Lapszynski
Purge Start	15:53	Gallons Purged	0.73	Replicate/ Code No.			

Purge End 16:30

Time	Minutes	Total Elapsed	Rate	Depth to Water	Gallons	pH (standard	Conductivity	Turbidity	Dissolved	Temperature	Redox	Appearance	
Time	Elapsed	Minutes	mL/min	(ft)	Purged	units)	(mS/cm)	(NTU)	Oxygen (mg/L)	°C	(mV)	Color	Odor
15:58	0	0	150	30.94	0.40	5.59	1086	0.9	2.2	16.77	148.3	Clear	None
16:03	5	5	100	31.74	0.33	5.58	1083	0.98	1.71	16.92	164.5	Clear	None
16:08	5	10	100	32.03	0.46	5.58	1080	0.95	1.46	16.85	172.0	Clear	None
16:13	5	15	50	31.89	0.53	5.58	1077	1.11	1.54	16.81	177.9	Clear	None
16:18	5	20	50	31.76	0.59	5.58	1074	0.43	1.64	16.73	182.4	Clear	None
16:23	5	25	50	31.66	0.66	5.58	1072	0.96	1.71	16.8	185.9	Clear	None
16:28	5	30	50	31.58	0.73	5.57	1069	0.96	1.78	16.67	188.9	Clear	None

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
Appendix III/IV Metals	250 mL Plastic	1	HNO3

#### Comments:

**Well Casing Volume Conversion** 

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

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

Well Information

Well Location:

Condition of Well: Good condition

Well Locked at Arrival: yes

Well Locked at Departure: yes

Well Completion: Stick-up

Key Number To Well: NA

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



Project Number	30052916	Well ID	YGWC-41			Date	02/08/2022
Project Name/Location	GPC Yates Phase I AF	P-B Site	Weather(°F)	65 degrees F ar	nd clear. The wind is bl	owing W/SW.	
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	56.82-66.82	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	28.39	Total Depth (ft-bmp)	67.32	Water Column(ft)	38.93	Gallons in Well	6.33
MP Elevation	803.92	Pump Intake (ft- bmp)	62	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	16:20	Volumes Purged	0.33	Sample ID	YGWC-41	Sampled by	Kim Lapszynski
Purge Start	15:32	Gallons Purged	2.11	Replicate/ Code No.	AMA-DUP-2		

Purge End 16:46

Time Minutes		Flansed Rate	Depth to Water		pH (standard	Conductivity	Turbidity	Dissolved	Temperature	Redox	Appearance		
Tille	Elapsed	Minutes	mL/min	(ft)	ruigeu	units)	(mS/cm)	(NTU)	Oxygen (mg/L)	°C	(mV)	Color	Odor
15:42	0	0	200	29.71	0.53	5.08	0.299	1.66	4.32	16.08	254.4	Clear	None
15:47	5	5	200	29.62	0.79	5.07	0.292	0.02	4.13	16.07	251.2	Clear	None
15:52	5	10	200	29.62	1.06	5.07	0.292	0.02	4.23	16.02	253.3	Clear	None
15:57	5	15	200	29.62	1.32	5.07	0.294	0.02	4.62	15.99	259.2	Clear	None
16:02	5	20	200	29.61	1.59	5.07	0.297	0.67	5.09	15.87	263.8	Clear	None
16:07	5	25	200	29.61	1.85	5.07	0.301	0.40	5.34	15.79	268.9	Clear	None
16:12	5	30	200	29.61	2.11	5.07	0.306	0.22	5.48	15.78	270.9	Clear	None

Constituent Sampled	Container	Number	Preservative
Total Dissolved Solids	500 mL Plastic	2	None
RAD 9315/9320	1L Plastic	4	HNO3
Cl, F, SO4	250 mL Plastic	2	None
Appendix III/IV Metals	250 mL Plastic	2	HNO3

#### Comments:

**Well Casing Volume Conversion** 

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

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

Well Information

Well Locked at Arrival: yes

Condition of Well: Good condition

Well Locked at Departure: yes

Well Completion: Stick-up

Key Number To Well: NA

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



Project Number	30052916	Well ID	YGWC-49			Date	02/08/2022	
Project Name/Location	GPC Yates Phase I AF	P-B Site	Weather(°F)	60 degrees F ar	60 degrees F and Clear. The wind is blowing W/S			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	68.03-78.03	Casing Diameter (in)	2	Well Casing Material	PVC	
Static Water Level (ft-bmp)	32.12	Total Depth (ft-bmp)	78.53	Water Column(ft)	46.41	Gallons in Well	7.54	
MP Elevation	782.73	Pump Intake (ft- bmp)	73	Purge Method	Low-Flow	Sample Method	Low-Flow	
Sample Time	18:00	Volumes Purged	0.22	Sample ID	YGWC-49	Sampled by	Kim Lapszynski	
Purge Start	17:29	Gallons Purged	1.65	Replicate/ Code No.				

Purge End 18:08

Time	Minutes Total Rate	Rate	Depth to Water	Gallons	pH (atom dored	Conductivity	Turbidity	Dissolved	Temperature	Redox	Appea	rance	
Tille	Elapsed	Minutes	mL/min	(ft)	Purged	(standard units)	(mS/cm)	(NTU)	Oxygen (mg/L)	°C	(mV)	Color	Odor
17:39	0	0	250	33.04	0.66	5.81	0.225	0.50	2.48	15.88	232.6	Clear	None
17:44	5	5	250	33.09	0.99	5.8	0.222	0.75	2.26	15.92	228	Clear	None
17:49	5	10	250	33.18	1.32	5.79	0.223	0.52	2.21	15.87	224.8	Clear	None
17:54	5	15	250	33.2	1.65	5.79	0.224	0.02	2.20	15.86	224.5	Clear	None

Constituent Sampled	Container	Number	Preservative	
Total Dissolved Solids	500 mL Plastic	1	None	
Cl, F, SO4	250 mL Plastic	1	None	_
RAD 9315/9320	1L Plastic	2	None	_
Appendix III/IV Metals	250 mL Plastic	1	HNO3	_
				-
Comments:				

**Well Casing Volume Conversion** 

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

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

#### Well Information

Well Location: AMA Well Locked at Arrival: yes

Condition of Well: Good condition Well Locked at Departure: yes

Well Completion: Stick-up Key Number To Well: NA

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

# **Upgradient Wells**



roject Location	n AP-2			Weather	r(°F) It is Clear. T	he wind is blo	wing W/SW a	at 3.4 mph.		
Measuring Pt. Description	Top of Inne	r Casing	Screen Setting (ft-bmp)	48.85	Casing Diameter (i	n) <sup>2</sup>		Well Casing Material	PVC	
Static Water .evel (ft-bmp)	52.37		Total Depth (ft-b	<b>mp)</b> 59.05	Water Column(ft)	6.68		Gallons in Well	1.09	
IP Elevation	796.55		Pump Intake (ft- bmp)	54	Purge Meth	od Low-Flow	ı	Sample Method	Low-Flow	v
Sample Time	11:35		Well Volumes Purged	1.71	Sample ID	YGWA-3	I	Sampled by	Kim Laps	szynski
urge Start	10:44		Gallons Purged	1.86	Replicate/ Code No.			Color	Clear	
Purge End	11:21									
Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperat °C	ure	Redox (mV)
10:44:00	00:00	150	, ,	7.79	191.72	0.55	9.33	15.5		-6.75
10:49:00	05:00	150	52.73	7.56	242.9	0	4.82	16.5		9.8
10:54:00	10:00	150	52.76	7.63	253.88	0	3.07	16.4		-12.92
10:59:00	15:00	150	52.81	7.67	247.96	0	1.77	16.5		-73.7
11:01:00	17:14	150	52.88	7.68	241.83	0	1.49	16.5		-89.6
11:06:00	22:14	150	52.94	7.71	229.42	0	1.1	16.6		-111.61
11:11:00	27:14	150	52.95	7.66	217.68	0	0.81	16.6		-119.84
11:16:00	32:14	150	52.95	7.71	209.46	0	0.67	16.5		-130.84
11:21:00	37:14	150	52.95	7.73	202.67	0	0.54	16.5		-137.96
11:26:00	42:14	150	52.95	7.75	196.59	0	0.44	16.5		-143.71
11:31:00	47:14	150	52.95	7.66	196.86	0	0.48	16.5		-140.36
onstituent San	npled		(	Container			Number	Pı	reservativ	re
TDS			5	500 mL Plastic			1	No	one	
RAD 9315/9320			<del></del>	IL Plastic	_	•	2	H	NO3	
Cl, F, SO4 250		250 mL Plastic	mL Plastic 1			No	one			
Appendix III/IV M	letals			250 mL Plastic		•	1	H	NO3	

Well Casing Volume Conversion

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

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

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



Project Number	30052923	Well ID	YGWA-1I			ι	Date	02/09/2022
Project Location	n AP-2		Weather(°	°F) 57.9 degrees F	and Clear.	The wind is blo	owing W at 8.	1 mph.
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	43.3	Casing Diameter (in)	2		Well Casing Material	PVC
Static Water Level (ft-bmp)	37.85	Total Depth (ft-bmp)	53.6	Water Column(ft)	15.75		Gallons in Well	2.56
MP Elevation	836.6	Pump Intake (ft- bmp)	49	Purge Method	Low-Flow		Sample Method	Low-Flow
Sample Time	13:45	Well Volumes Purged	0.72	Sample ID	YGWA-1I	5	Sampled by	Kim Lapszynski
Purge Start	12:46	Gallons Purged	1.85	Replicate/ Code No.		(	Color	Clear
Purge End	13:43							
	Total Elapsed Rate	Depth to	pH 	Specific Tu	ırbiditv	Dissolved	Tempera	ture Redox

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	250		7.54	42.71	0.98	9.62	16.4	81.1
12:51:00	05:00	250	39.57	6.68	55.57	1.12	2.25	16.3	-50.93
12:56:00	10:00	250	39.97	6.53	41.47	0.68	1.93	16.2	-47.9
13:01:00	15:00	100	40.05	6.51	39.94	0.75	1.62	16.1	-40.01
13:06:00	20:00	100	40.16	6.42	36.96	0.57	1.62	15.9	-27.95
13:11:00	25:00	100	40.28	6.32	36.37	0.37	2.49	15.8	-12.99
13:16:00	30:00	100	40.43	6.18	31.64	0.89	3.27	15.8	2.7
13:21:00	35:00	100	40.54	6.15	30.07	0.71	3.68	15.7	12.7
13:26:00	40:00	100	40.63	6.19	30.99	0.74	3.8	15.8	16.89
13:31:00	45:00	100	40.71	6.15	33.49	0.35	3.86	15.7	23.45
13:36:00	50:00	100	40.81	6.17	30.42	0.9	3.8	15.7	26.45
13:41:00	55:00	100	40.86	6.24	31.73	1.72	3.76	15.7	26

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
Appendix III, IV Metals	250 mL Plastic	1	HNO3

#### Comments:

Well (	Casing	Volume	Conve	rsion

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



Project Number	30052923	Well ID	YGWA-2I			Date	02/09/2022
Project Location	AP-2		Weather(°F)	60.1 degrees F	and Clear. The wind is	blowing W/SW	at 8.1 mph.
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	53.45	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	44.87	Total Depth (ft-bmp)	63.75	Water Column(ft)	18.88	Gallons in Well	3.07
MP Elevation	866.25	Pump Intake (ft- bmp)	60	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	17:35	Well Volumes Purged	0.59	Sample ID	YGWA-2I	Sampled by	Kim Lapszynski
Purge Start	15:14	Gallons Purged	1.81	Replicate/ Code No.		Color	Clear

Purge End 17:32

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
15:14:00	00:00	50	44.87	7.53	126.76		9.14	16.8	4.3
15:19:00	05:00	50	45.68	7.22	162.5		6.17	17.1	-9.41
15:24:00	10:00	50	46.07	7.14	185.48	2.76	3.69	16.7	-31.45
15:29:00	15:00	50	46.48	6.92	200.48	2.75	2.2	16.8	-37.18
15:34:00	20:00	50	46.87	6.7	199.52	1.55	1.58	16.6	-38.99
15:39:00	25:00	50	47.25	6.51	200.48	4.75	1.43	16.5	-36.85
15:44:00	30:00	50	47.62	6.41	197.86	2.14	1.44	16.6	-32.96
15:49:00	35:00	50	47.96	6.43	200.78	1.35	1.39	16.7	-29.86
15:54:00	40:00	50	48.26	6.39	197.61	0.65	1.53	16.9	-23.68
15:59:00	45:00	50	48.52	6.28	192.97	2.73	1.45	16.8	-17.24
16:04:00	50:00	50	48.82	6.24	189.88	1.52	1.41	16.9	-10.9
16:09:00	55:00	50	49.1	6.27	189.2	2.05	1.35	16.9	-6.22
16:14:00	00:00	50	49.4	6.23	187.16	1.97	1.38	16.9	-0.28
16:19:00	05:00	50	49.66	6.09	181.16	1.53	1.44	16.7	6
16:24:00	10:00	50	49.96	6.11	180.14	0.39	1.51	16.8	10.14
16:29:00	15:00	50	50.18	6.13	180.56	0.67	1.62	16.8	13.44
16:34:00	20:00	50	50.43	6.05	174.37	0.47	1.69	16.6	17.64
16:39:00	25:00	50	50.67	5.98	173.99	0.48	1.78	16.5	22.67
16:44:00	30:00	50	50.88	5.99	170.88	0.95	1.81	16.5	25.38
16:49:00	35:00	50	51.15	5.95	173.45	1.02	1.9	16.4	28.55
16:54:00	40:00	50	51.42	5.9	171.8	0.76	1.93	16.3	30.52
16:59:00	45:00	50	51.63	5.93	170.38	0.14	1.92	16.3	30.85
17:04:00	50:00	50	51.91	5.92	173.39	0.76	1.95	16.2	32.14
17:09:00	55:00	50	52.18	6.02	173.52	1.42	1.97	16.4	31.79
17:14:00	00:00	50	52.45	6	172.23	0.24	1.97	16.3	31.19
17:19:00	05:00	50	52.64	5.95	171.43	0.18	2.02	16.2	31.67
17:24:00	10:00	50	52.74	5.94	171.84	0.53	2	16.1	33.03
17:29:00	15:00	50	52.91	5.89	172.05	0.53	2.18	15.9	36.18
17:31:00	17:11	50		5.86	173.09	0.49	2.21	15.8	37.14

Constituent Sampled	Contai
TDS	500 ml
RAD 9315/9320	1L Plas
Cl, F, SO4	250 ml
Appendix III/IV	250 ml

Container
500 mL Plastic
1L Plastic
250 mL Plastic
250 mL Plastic

Number	Preservative
1	None
2	HNO3
1	None
1	HNO3

Well Location:

Well Completion: NA

Condition of Well:



Project Numbe	r 30053438		Well ID	YGWA-3	SUI			Date	02/11/20	22
Project Locatio	on AP-2			Weather	<b>c(°F)</b> 47 °F, Clear	, winds at m	ph.			
Measuring Pt. Description	Top of Inne	r Casing	Screen Setting (ft-bmp)	49.18	Casing Diameter (i	n) <sup>2</sup>		Well Casing Material	PVC	
Static Water Level (ft-bmp)	43.9		Total Depth (ft-b	<b>mp)</b> 59.48	Water Column(ft)	15.58		Gallons in Well	2.53	
MP Elevation	762.58	762.58		54.5	Purge Meth	nod Low-Flow		Sample Method	Low-Flow	
Sample Time	09:20		Well Volumes Purged	0.75	Sample ID	YGWA-3	301	Sampled by	Khalil Ca	rson
Purge Start	08:36		Gallons Purged	1.89	Replicate/ Code No.			Color	Clear	
Purge End	09:26									
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)
08:36:00	00:00	200	43.9	6.06	56.19		7.65	15.8		221.48
08:41:00	05:00	200	43.9	5.75	42.5		6.81	16.5		191.7
08:46:00	10:00	200	43.9	5.65	41.21	0.61	6.81	16.6		192.77
08:51:00	15:00	200	43.9	5.47	40.54	0.32	6.79	16.5		197.87
08:56:00	20:00	200	43.9	5.39	39.59	0.43	6.72	16.5		198.93
09:01:00	25:00	200	43.9	5.52	39.79	0.32	6.78	16.6		192.36
09:07:00	30:41	200	43.9	5.52	39.73	0.17	6.77	16.6		191.93
09:12:00	35:41	200	43.9	5.59	39.75	0.42	6.73	16.7		188.76
Constituent Sa	mpled		(			Number	<b>Preservative</b> None			
RAD Chem			<u> </u>	500 mL Plastic  1L Plastic			2	HNO3		
Chloride, Fluoride , Sulfate				250 mL Plastic		1		None		
Metals					<u>·</u> 1			HNO3		
Comments:	olume Conversio	on.								
vven casing vo	nume Conversio	<i>7</i> 11			.5 = 0.50 6 = 1.47					

Well Locked at Arrival:

Key Number To Well: NA

Well Locked at Departure:



Project Location AP-2			Weather(°F) 57.9 degre			s F and Clear	. The wind is b	olowing W at 8.	at 8.1 mph.		
Measuring Pt. Top of Inner Casing		Screen Setting (ft-bmp)	78.05	Casing Diameter (i	2		Well Casing Material	PVC			
Static Water 48.84 Level (ft-bmp)		Total Depth (ft-b	<b>mp)</b> 128.85	3.85 Water Column(ft)		80.01		13			
MP Elevation	,		Pump Intake (ft- bmp)	108	Purge Meth	od Low-Flow		Sample Method	Low-Flow		
Sample Time	14:45		Well Volumes Purged	0.12	Sample ID	YGWA-	YGWA-1D		Kim Lapszynski		
Purge Start	14:10		Gallons Purged	1.59	Replicate/ Code No.				Clear		
Purge End	14:41										
Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Tempera °C	ture Redox (mV)		
14:10:00	00:00	200		7.26	47.87	74.8	9.84	14.8	27.93		
14:15:00	05:00	200	48.93	7.14	31.6	9.14	1.28	16.1	-52.75		
14:20:00	10:00	200	48.99	7.13	66.76	5.96	0.6	16.1	-71.82		
14:25:00	15:00	200	49.04	7.17	33.51	3.37	0.33	16	-86.68		
14:30:00	20:00	200	49.04	7.2	30.75	3.16	0.27	16	-95.91		
14:35:00	25:00	200	49.07	7.2	29.69	1.01	0.28	16	-96.24		
14:40:00	30:00	200	49.09	7.12	30.84	1.27	0.3	16	-90.4		
Constituent Sampled			(	Container		Number			Preservative		
TDS				500 mL Plastic		1		None			
RAD 9315/9320			<u> </u>	1L Plastic			2	HNO3			
CI, F, SO4				250 mL Plastic		1		None			
Appendix III/IV Metals			250 mL Plastic			1	_ H	INO3			

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: N	A Key Number To Well: NA

Condition of Well:

Well Completion: NA



Project Number	r 30052923		Well ID	YGWA-3	D			Date	02/09/2022		
Project Location AP-2				Weather	(°F) It is Clear. T	he wind is blo	at 3.4 mph.				
Measuring Pt. Description	Top of Inne	r Casing	Screen Setting (ft-bmp)	83.88	Casing Diameter (i	n) <sup>2</sup>		Well Casing Material	PVC		
Static Water Level (ft-bmp)	30.23		Total Depth (ft-k	omp) 134.18	Water Column(ft)	103.95		Gallons in Well	16.89		
MP Elevation	P Elevation 796.78		Pump Intake (ft- bmp)	113	Purge Method Low-Flow		N	Sample Method	Low-Flow		
Sample Time	10:20		Well Volumes Purged	0.05	Sample ID	YGWA-	3D	Sampled by	Kim Lapszynski		
Purge Start	09:51		Gallons Purged	0.91	Replicate/ Code No.			Color	Clear		
Purge End	10:14										
Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (cm)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperat °C	ture Redo (mV		
09:51:00	00:00	150		8.52	223.85		11.02	11.6	146.5		
09:57:00	05:49	150		7.72	215.15		0.57	15	-163.3		
10:02:00	10:49	150	30.34	7.87	213.86		0.17	15.4	-160.		
10:07:00	15:49	150	30.35	7.94	213.95	0.36	0.11	15.7	-166.		
10:09:00	18:03	150		7.95	213.88	0.95	0.09	15.8	-169		
10:14:00	23:03	150	30.35	7.97	213.55	0.11	0.09	15.8	-174.		
Constituent Sar	mpled			Container 500 mL Plastic			Number 1		reservative		
RAD 9315/9320			<del>-</del>	1L Plastic			2	HNO3			
CI,F,SO4 250				250 mL Plastic	50 mL Plastic 1				None		
Appendix III/IV Metals 250				50 mL Plastic 1			1	HNO3			
-	The Water- lume Conversionches) = gallons	on	uring purging activ		, 						
`	, 3	P 31 1001	1.25 = 0.06 2 = 0								
Well Information											
Well Locat	tion:				Well Locked at Arr	rival:					

Well Locked at Departure:

Key Number To Well: NA

Condition of Well:

Well Completion: NA



Project Number	ct Number 30053438			YGWA-1	48				02/10/2	02/10/2022	
Project Location	n AP-2			Weather	r(°F) 65.8 degree	blowing W/SW at 6.9 mph.					
Measuring Pt. Description	Top of Inne	r Casing	Screen Setting (ft-bmp)	24.66	Casing Diameter (i	a) <sup>2</sup>		Well Casing Material	PVC		
Static Water Level (ft-bmp)	18.52		Total Depth (ft-l	<b>bmp)</b> 34.96	Water Column(ft)	16.44		Gallons in Well	2.67		
MP Elevation	n 748.76		Pump Intake (ft- bmp)	30	Purge Meth	od Low-Flow		Sample Method	Low-Flow		
Sample Time	16:20		Well Volumes Purged	0.40	Sample ID	YGWA-1	14S	Sampled by	Khalil (	Carson	
Purge Start	15:53		Gallons Purged	1.06	Replicate/ Code No.	Up-DUP	-2	Color	Clear		
Purge End	16:39										
Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Tempera °C	ture	Redox (mV)	
15:53:00	00:00	200	18.52	4.9	63.46		6.61	18.2		196.17	
15:58:00	05:00	200	19.65	4.47	63.88	0.37	5.84	18.1		235.99	
16:03:00	10:00	200	19.65	4.52	64.03	0.38	5.8	18.1		244.08	
16:08:00	15:00	200	19.65	4.52	64.11	0.46	5.77	18.1		250.58	
16:13:00	20:00	200	19.65	4.5	64.25	0.27	5.74	18.1		256.98	
Constituent Sar	mpled			Container 500 mL Plastic			Number 2		reservat	live	
RAD Chem			<del></del> -	1L Plastic			4		INO3		
Metals				250 mL Plastic			2	- F	INO3		
Chloride,Fluoride	,Sulfate			250 mL Plastic			2	<u>N</u>	lone		
Comments: Well Casing Vol Well diameter (ir					.5 = 0.50 6 = 1.47						
Mall Informati			1.25 = 0.06 2 = 0	0.16 3 = 0.37 4	= 0.65						
Well Information											
Well Locat	ion:				Well Locked at Ar	rival:					

Well Locked at Departure:

Key Number To Well: NA

Well Location:

Well Completion: NA

Condition of Well:



Project Location			Well ID	YGWA-5	טט			Date	02/10/	2022
Project Location AMA AP-3, A, B and B'		B, A, B and B'		Weather	r(°F) 65.8 degre	ees F and Cl	ear. The wind is	blowing W/N\	N at 5.8	mph.
Measuring Pt. Description	Top of Inn	er Casing	Screen Setting (ft-bmp	78.83	Casing Diameter	(in) <sup>2</sup>	in) <sup>2</sup>		PVC	
Static Water Level (ft-bmp)	19.52		Total Depth (ft- bmp)	129.13	Water Column(f	t) 109.61		Gallons in Well	17.81	
		Pump Intake (ft bmp)	124	Purge Me	thod Low-F		Sample Method	Low-F	low	
Sample Time	17:40		Well Volumes Purged	0.06	Sample II	YGWA	ı-5D	Sampled by	Khalil	Carson
Purge Start	17:10		Gallons Purgeo	1.06	Replicate Code No.			Color	Clear	
Purge End	18:21									
Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperat °C	ture	Redox (mV)
17:10:00	00:00	200	19.52	6.70	201.38	7.53	2.33	16.4		-82.19
17:15:00	05:00	200	20.35	7.02	219.86	4.55	0.13	16.6		-128.55
17:20:00	10:00	200	20.35	7.00	208.73	2.03	0.09	16.5		-141.68
17:25:00	15:00	200	20.35	6.99	203.50	0.41	0.07	16.5		-143.96
17:30:00	20:00	200	20.35	6.99	201.44	0.04	0.06	16.4		-145.53
Constituent San	npled			Container			Number	P	reserva	itive
TDS			,	500 mL Plastic			1	N	lone	
RAD Chem				1L Plastic			2		INO3	
Chloride,FLUOR	IDE ,Sulfate			250 mL Plastic			1		lone	
Metals	Metals 250 mL Plas			250 mL Plastic			1	 H	INO3	
Comments:										
Well Casing Vol	ume Conver	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 Locked at Arrival:

Key Number To Well: NA

Well Locked at Departure:



Project	Number	30052918		Well ID		YGWA-18I				Date	02	2/09/2022				
Project Name/L	ocation	AMA AP-3,	A, B, A			Weather(°	<b>F)</b> 57.0 deg	grees F a	nd Clear. The w	rind is blowing W	/NW at 6	6.9 mph.				
Measur Descrip	·	Top of Inner	Casing	Screen Setting (ft	-bmp)	69.97-79.9	7 Casing Diamete	er (in)	(in) <sup>2</sup>		ing P	PVC				
	tic Water 23 Total Depth (ft-bmp) 79.8		79.97	9.97 <b>Water</b> 56.97 <b>Column(ft)</b>		Gallons Well	<b>in</b> 9.	26								
MP Elev	ation	790.57		Pump Inta bmp)	ake (ft-	75	Purge N	/lethod	Low-Flow	Sample Method	Lo	ow-Flow				
Sample	Time	14:31		Volumes	Purged	0.26	Sample	ID	YGWA-18I	Sampled	l by Je	essica Ware				
Purge S	Start	14:05		Gallons P	urged	2.44	Replica Code N									
Purge E	nd	14:42														
Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbid (NTU	Ovvaan	Temperature °C	Redox (mV)	Appea	arance Odor			
14:15	0	0	250	23.31	0.66	6.00	0.097	2.43		14.81	182.6	Clear	None			
14:20	5	5	250	23.38	0.99	5.98	0.095	0.70	3.51	14.93	186.9	Clear	None			
14:25	5	10	250	23.37	1.32	5.98	0.095	0.52	3.52	15.13	190.1	Clear	None			
	uent Sampl				Container 500 mL Pla	ıstic			Number		<b>Prese</b> None	rvative				
RAD 93	15/9320			-	1L Plastic			_	2		HNO3	}				
Cl, F, S	O4				250 mL Pla	stic		-	1		None					
App III/I	V Metals			-	250 mL Pla	stic		_	1		HNO3	}				
Comme Well Ca		e Conversio	n					_								
Well dia	meter (inch	es) = gallons p	per foot	1 = 0.04 1	.5 = 0.09 2.	5 = 0.26 3.5	= 0.50 6 = 1.47	7			Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47					

Well Information

Well Locked at Arrival: yes

Condition of Well: Good condition

Well Locked at Departure: yes

Well Completion: Stick-up

Key Number To Well: NA

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



Project Numbe	r 30052923		Well ID	YGWA-5	il			Date	02/10/20	22
Project Locatio	n AMA AP-3,	A, B and B'		Weather	(°F) 65.8 degree	es F and Clear	The wind is	blowing W/NW	at 5.8 mpl	n.
Measuring Pt. Description	Top of Inne	r Casing	Screen Setting (ft-bmp)	48.64	48.64 Casing Diameter (ii			Well Casing Material	PVC	
Static Water Level (ft-bmp)	17.94	94 Total Depth (ft-bn		omp) 58.94	Water Column(ft)	41		Gallons in Well	6.66	
MP Elevation	784.54	bmp)		Sample Method	Low-Flow	v				
Sample Time	17:43		Well Volumes Purged	0.16	Sample ID	YGWA-5	il .	Sampled by	Mark Ch	est
Purge Start	17:05		Gallons Purged	1.06	Replicate/ Code No.	UP-DUP	-3	Color	Clear	
Purge End	17:25									
Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Tempera °C	ature	Redox (mV)
17:05:00	00:00	200	17.94	6.85	98.05	6.03	7.71	16.4		197.08
17:10:00	05:00	200	18.38	5.14	77.62	0.12	6.1	16.6		246.13
17:15:00	10:00	200	18.38	5.12	77.78	0.13	6.11	16.5		247.72
17:20:00	15:00	200	18.38	5.13	77.2	0.08	6.13	16.5		249
17:25:00	20:00	200	18.38	5.14	78.65	0.87	6.13	16.4		250.28
Constituent Sa	mpled			Container			Number	F	Preservativ	/e
RAD Chem				1L Plastic			4	H	HNO3	
rds .			<del></del>	1L Plastic			2	<u>N</u>	None	
Metals			<del>-</del>	250 mL Plastic			2		NO3	
CI, F, SO4			<del>-</del>	250 mL Plastic 2				<u> </u>	lone	
			<del></del>							
Comments:										
Wall Casing Va	lume Conversion	on								
wen casing vo										

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

Condition of Well:

Well Completion:  $\overline{\rm NA}$ 



Project Number	30053438		Well ID	YGWA-4I				Date	02/11/202	22
Project Location	n AMA AP-3,	A, B and B'		Weather	(°F) 46.6 degree	s F and Clear	r. The wind is b	blowing W/SW at 3.4 mph.		
Measuring Pt. Description	Top of Inne	r Casing	Screen Setting (ft-bmp)	38.51	Casing Diameter (i	n) <sup>2</sup>		Well Casing Material	PVC	
Static Water Level (ft-bmp)	22 21 Total Dei		Total Depth (ft-l	omp) 48.81	Water Column(ft)	26.6		Gallons in Well	4.32	
MP Elevation	bmp)		w	Sample Method	Low-Flow					
Sample Time	10:40		Well Volumes Purged	0.21	Sample ID	YGWA-	41	Sampled by	Khalil Car	son
Purge Start	10:13		Gallons Purged	0.92	Replicate/ Code No.			Color	Clear	
Purge End	10:55									
Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperar °C	ture	Redox (mV)
10:13:00	00:00	200	22.21	5.67	113.64	2.83	7.6	13.6		206.98
10:18:00	05:00	200	25.15	6.03	141.88	0.41	1.29	15.6		187.93
10:23:00	10:00	150	26.75	5.98	131.39	0.61	1.82	15.6		188.25
10:28:00	15:00	150	26.6	5.96	130.68	0.38	1.85	15.3		189.93
10:33:00	20:00	150	26.6	5.95	130.2	0.42	1.87	15.4		190.98
Constituent Sam	npled			Container			Number	-	reservative	•
RAD Chem			<u> </u>	500 mL Plastic			1 2		lone INO3	
Chloride,Fluoride	Sulfate			250 mL Plastic			1		lone	
Metals	,ounate		<u> </u>	250 mL Plastic			1		INO3	
Comments:										
Well Casing Volu	ume Conversion	on								
Well diameter (ind	ches) = gallons	per foot	1 = 0.04 1.5 = 0. 1.25 = 0.06 2 = 0							
Well Information	1									
Well Location	ion·				Well Locked at Arr	rival:				

Well Locked at Departure:

Key Number To Well: NA



Project Number	30052918	Well ID	YGWA-17S			Date	02/09/2022
Project Name/Location	AMA AP-3, A, B and B		Weather(°F)	Sunny, clear, 46	6 degrees Fahrenheit		
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	29.65-39.65	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	11.7	Total Depth (ft-bmp)	39.97	Water Column(ft)	28.27	Gallons in Well	4.59
MP Elevation	783.05	Pump Intake (ft- bmp)	35	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	10:20	Volumes Purged	0.58	Sample ID	YGWA-17S	Sampled by	Jessica Ware
Purge Start	09:46	Gallons Purged	2.64	Replicate/ Code No.			

Purge End 10:36

Time	Minutes	Total	Rate	Depth to Water		pH (standard	Conductivity	Turbidity	Dissolved	Temperature	Redox	Appea	rance
Tille	Elapsed	Elapsed Minutes	mL/min	(ft)	Purged	units)	(mS/cm)	(NTU)	Oxygen (mg/L)	°C	(mV)	Color	Odor
09:56	0	0	200	12.05	0.53	5.56	0.122	6.67	2.00	14.04	181.0	Clear	None
10:01	5	5	200	12.07	0.79	5.54	0.122	3.67	1.83	14.08	187.0	Clear	None
10:06	5	10	200	12.06	1.06	5.53	0.121	4.20	1.67	14.14	192.3	Clear	None
10:11	5	15	200	12.04	1.32	5.53	0.12	2.97	1.58	14.25	197.1	Clear	None
10:16	5	20	200	12.07	1.59	5.53	0.12	2.52	1.57	14.38	200.3	Clear	None

Constituent Sampled	Container	Number	Preservative
Total Dissolved Solids	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	1	HNO3

#### Comments:

#### **Well Casing Volume Conversion**

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

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

#### Well Information

Well Location: AMA Well Locked at Arrival: yes

Condition of Well: Good condition Well Locked at Departure: yes

Well Completion: Stick-up Key Number To Well: NA



Project Number	30052918	Well ID	YGWA-18S			Date	02/09/2022
Project Name/Location	AMA AP-3, A, B, A		Weather(°F)	50.2 degrees F	and Clear. The wind is l	blowing SW at 4	4.7 mph.
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	29.97-39.97	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	19.74	Total Depth (ft-bmp)	39.97	Water Column(ft)	20.23	Gallons in Well	3.29
MP Elevation	790.57	Pump Intake (ft- bmp)	35	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	12:24	Volumes Purged	0.89	Sample ID	YGWA-18S	Sampled by	Jessica Ware
Purge Start	11:20	Gallons Purged	2.92	Replicate/ Code No.			

Purge End 13:03

Time	Minutes	Total	Rate	Depth to Water	Gallons	pH (standard	Conductivity	Turbidity	Dissolved	Temperature	Redox	Appea	rance
Time	Elapsed	Elapsed Minutes	mL/min	(ft)	Purged	units)	(mS/cm)	(NTU)	Oxygen (mg/L)	°C	(mV)	Color	Odor
11:30	0	0	150	20.21	0.40	5.51	0.067	13.5	3.71	12.46	227.8	Clear	None
11:35	5	5	150	20.23	0.59	5.41	0.067	13.4	3.04	12.98	220.8	Clear	None
11:40	5	10	100	20.14	0.73	5.35	0.068	13.7	2.32	13.23	219.9	Clear	None
11:45	5	15	100	20.06	0.86	5.31	0.068	12.5	2.26	13.17	220.8	Clear	None
11:50	5	20	100	20.09	0.99	5.29	0.067	10.3	1.88	13.15	219.7	Clear	None
11:55	5	25	100	20.13	1.12	5.30	0.068	7.97	1.87	13.30	218.0	Clear	None
12:00	5	30	100	20.12	1.25	5.30	0.068	7.46	1.80	13.48	217.3	Clear	None
12:05	5	35	100	20.11	1.39	5.30	0.068	5.99	1.82	13.59	215.2	Clear	None
12:10	5	40	100	20.14	1.52	5.29	0.068	4.62	1.80	13.67	214.3	Clear	None
12:15	5	45	100	20.12	1.65	5.29	0.068	4.33	1.85	13.69	213.2	Clear	None
12:20	5	50	100	20.10	1.78	5.28	0.068	3.23	1.77	13.68	213.6	Clear	None

Constituent Sampled	Container	Number	Preservative
Total Dissolved Solids	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	1	HNO3

#### Comments:

#### Well Casing Volume Conversion

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

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

#### Well Information

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



Project Number	30052916	Well ID	YGWA-39			Date	02/08/2022
Project Name/Location	GPC Yates Phase I AF	P-B Site	Weather(°F)	65 degrees F ar	nd Clear. The wind is blo	owing W/SW.	
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	58.09-68.09	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	17.62	Total Depth (ft-bmp)	68.59	Water Column(ft)	50.97	Gallons in Well	8.28
MP Elevation	818.19	Pump Intake (ft- bmp)	63	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	14:55	Volumes Purged	0.26	Sample ID	YGWA-39	Sampled by	Kim Lapszynski
Purge Start	14:13	Gallons Purged	2.11	Replicate/ Code No.			

Purge End 14:54

Time	Minutes	Total	Rate	Depth to Water	Gallons	pH (atom dored	Conductivity	Turbidity	Dissolved	Temperature	Redox	Appea	rance
Time	Elapsed	Elapsed Minutes	mL/min	(ft)	Purged	(standard units)	(mS/cm)	(NTU)	Oxygen (mg/L)	°C	(mV)	Color	Odor
14:23	0	0	200	17.62	0.53	5.78	0.381	0.15	0.40	16.43	68.9	Clear	None
14:28	5	5	200	18.07	0.79	5.78	0.382	0.02	0.28	16.52	72.9	Clear	None
14:33	5	10	200	18.08	1.06	5.78	0.381	0.07	0.25	16.41	76.8	Clear	None
14:38	5	15	200	18.09	1.32	5.75	0.373	0.02	0.22	16.28	86.2	Clear	None
14:43	5	20	200	18.09	1.59	5.77	0.368	0.39	0.20	16.28	89.9	Clear	None
14:48	5	25	200	18.11	1.85	5.78	0.367	0.56	0.20	16.21	89.6	Clear	None
14:53	5	30	200	18.11	2.11	5.78	0.366	0.06	0.19	16.24	92.0	Clear	None

Constituent Sampled	Container	Number	Preservative
RAD 9315/9320	1L Plastic	2	HNO3
Total Dissolved Solids	500 mL Plastic	1	None
Cl, F, SO4	250 mL Plastic	1	None
Appendix III/IV Metals	250 mL Plastic	1	HNO3

#### Comments:

**Well Casing Volume Conversion** 

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

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

Well Information

Well Locked at Arrival: yes

Condition of Well: Good condition

Well Locked at Departure: yes

Well Completion: Stick-up

Key Number To Well: NA



Project Number	30052918	Well ID	YGWA-21I			Date	02/09/2022
Project Name/Location	AMA AP-3, A, B, A		Weather(°F)	Sunny, clear, 60	) degrees Fahrenheit		
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	69.6-79.6	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	29.61	Total Depth (ft-bmp)	79.9	Water Column(ft)	50.29	Gallons in Well	8.17
MP Elevation	783.7	Pump Intake (ft- bmp)	75	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	17:40	Volumes Purged	0.46	Sample ID	YGWA-21I	Sampled by	Jessica Ware
Purge Start	17:06	Gallons Purged	3.80	Replicate/ Code No.			

Purge End 18:21

Time	Minutes	Total	Rate	Depth to Water		pH (standard	Conductivity	Turbidity	Dissolved	Temperature	Redox	Appea	rance
Tille	Elapsed	Elapsed Minutes	mL/min	(ft)	Purged	units)	(mS/cm)	(NTU)	Oxygen (mg/L)	°C	(mV)	Color	Odor
17:16	0	0	250	32.85	0.66	6.81	0.143	3.84	0.82	15.17	-50.9	Clear	None
17:21	5	5	250	33.11	0.99	6.85	0.144	2.31	0.54	15.13	-81.5	Clear	None
17:26	5	10	200	33.27	1.25	6.85	0.144	1.57	0.38	15.04	-79.2	Clear	None
17:31	5	15	175	33.34	1.49	6.85	0.144	2.27	0.36	14.99	-80.0	Clear	None
17:36	5	20	175	33.25	1.72	6.84	0.143	1.19	0.33	14.82	-86.9	Clear	None

Constituent Sampled	Container	Number	Preservative
Total Dissolved Solids	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	1	HNO3

#### Comments:

### **Well Casing Volume Conversion**

Well diameter (inches) = gallons per foot 1 = 0

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

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

### Well Information

Well Location: Well Locked at Arrival: yes

Condition of Well: Good condition Well: Good condition Well Locked at Departure: yes

Well Completion: Stick-up Key Number To Well: NA



Project Number	30052918	Well ID	YGWA-20S			Date	02/09/2022
Project Name/Location	AMA AP-3, A, B, A		Weather(°F)	Sunny, clear, 62	2 degrees Fahrenheit		
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	19.22-29.52	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	11.02	Total Depth (ft-bmp)	29.52	Water Column(ft)	18.5	Gallons in Well	3.01
MP Elevation	767.12	Pump Intake (ft- bmp)	24.5	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	16:19	Volumes Purged	1.19	Sample ID	YGWA-20S	Sampled by	Jessica Ware
Purge Start	15:35	Gallons Purged	3.59	Replicate/ Code No.			

Purge End 16:38

Time	Minutes	Total	Rate	Depth to Water		pH (standard	Conductivity	Turbidity	Dissolved	Temperature	Redox	Appea	rance
Tille	Elapsed	Elapsed Minutes	mL/min	(ft)	Purged	units)	(mS/cm)	(NTU)	Oxygen (mg/L)	°C	(mV)	Color	Odor
15:45	0	0	250	11.78	0.66	5.96	0.047	19.3	7.42	14.69	252.1	Clear	None
15:50	5	5	250	11.75	0.99	5.94	0.047	11.6	7.18	14.67	236.3	Clear	None
15:55	5	10	250	11.77	1.32	5.93	0.047	9.03	7.16	14.65	228.2	Clear	None
16:00	5	15	200	11.64	1.59	5.93	0.046	6.99	6.90	14.65	223.0	Clear	None
16:05	5	20	200	11.49	1.85	5.91	0.045	4.05	6.98	14.38	222.3	Clear	None
16:10	5	25	200	11.42	2.11	5.91	0.045	3.40	6.93	14.33	220.7	Clear	None
16:15	5	30	200	11.41	2.38	5.91	0.045	3.55	6.89	14.22	220.0	Clear	None

Constituent Sampled	Container	Number	Preservative
Total Dissolved Solids	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	1	HNO3

#### Comments:

### **Well Casing Volume Conversion**

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

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

#### Well Information

 Well Location:
 Well Locked at Arrival: yes

 Condition of Well:
 Good condition

 Well Completion:
 Stick-up

 Well Locked at Departure:
 yes

 Key Number To Well:
 NA



Project Numbe	r 30052923	Well ID	YGWA-47			Date	02/08/2022
Project Locatio	n AP-1		Weather(°	<b>°F)</b> 53.4 degrees F	and Clear. The	wind is blowing N/NE a	t 10.3 mph.
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	49.4	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	34.8	Total Depth (ft-bmp)	59.19	Water Column(ft)	24.39	Gallons in Well	3.96
MP Elevation	758.22	Pump Intake (ft- bmp)	54	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	11:40	Well Volumes Purged	0.40	Sample ID	YGWA-47	Sampled by	Mark Chest
Purge Start	11:12	Gallons Purged	1.59	Replicate/ Code No.		Color	Clear
Purge End	11:37						
	Total Elapsed Rate	Depth to	pH	Specific Tu	rbidity	ssolved Tempera	ture Redox

	Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
	11:12:00	00:00	200	34.8	5.15	193.83		2.88	17.3	238.85
	11:17:00	05:00	200	35.55	5.24	195.95		2.87	17	241.34
	11:22:00	10:00	200	35.55	5.3	197.08	0.8	2.93	17.1	240.91
Ī	11:27:00	15:00	200	35.55	5.38	196.93	0.22	2.95	17.1	238.23
	11:32:00	20:00	200	35.55	5.42	197.63	0.22	2.86	17	237.76
	11:37:00	25:00	200	35.55	5.4	197.93	0.19	2.82	17.2	239.78

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

201

0.37

2.95

18.2

229.25

#### Comments:

11:42:00

### Well Casing Volume Conversion

30:00

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

200

35.55

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

5.53



Project Number	er 30053438		Well ID	GWA-2				Date	02/08/2022
Project Location	on Gypsum La	ındfill		Weathe	r(°F) 38.8 degre	es F and Clear	. The wind is t	olowing N at 11	.4 mph.
Measuring Pt. Description	Top of Inne	r Casing	Screen Setting (ft-bmp)	42.1	Casing Diameter (	(in) <sup>2</sup>		Well Casing Material	PVC
Static Water Level (ft-bmp)	36.42		Total Depth (ft-b	omp) 52.13	Water Column(ft	15.71		Gallons in Well	2.55
MP Elevation	805.62		Pump Intake (ft- bmp)	47	Purge Met	hod Low-Flow	N	Sample Method	Low-Flow
Sample Time	10:45		Well Volumes Purged	0.26	Sample ID	GWA-2		Sampled by	Khalil Carson
Purge Start	10:14		Gallons Purged	0.66	Replicate/ Code No.	UP-DUP	·-1	Color	Clear
Purge End	10:40								
Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperat °C	Redox (mV)
10:14:00	00:00	100	36.42	5.84	450.71		1.28	15	181.1
10:19:00	05:00	100	37.25	5.8	427.58	2.88	1.18	15.1	184.46
10:24:00	09:56	100	37.4	5.8	420.36	2.7	1.04	15.2	184.8
10:29:00	14:56	100	37.52	5.82	417.21	1.81	0.93	15.4	179.34
10:34:00	19:56	100	37.45	5.83	415.26	1.05	0.95	14.5	178.52
10:39:00	24:56	100	37.45	5.83	414.33	0.85	0.97	14.5	174.43
Constituent Sa	ımpled			Container			Number	P	reservative
TDS				500 mL Plastic			2	N	lone
RAD Chem				1L Plastic	,		4	н	NO3
Metals			<del></del>	250 mL Plastic	,		2	H	INO3
Chloride,Fluorid	e,Sulfate			250 mL Plastic			2	N	lone

#### Comments:

#### **Well Casing Volume Conversion**

Well diameter (inches) = gallons per foot

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

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

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



Project Number	30052916	Well ID	YGWA-40			Date	02/08/2022
Project Name/Location	GPC Yates Phase I AP	P-B Site	Weather(°F)	50.7 degrees F	and Clear. The wind is	blowing N/NE at	t 10.3 mph.
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	37.73-47.73	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	22.72	Total Depth (ft-bmp)	48.23	Water Column(ft)	25.51	Gallons in Well	4.15
MP Elevation	815.73	Pump Intake (ft- bmp)	42	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	13:22	Volumes Purged	0.38	Sample ID	YGWA-40	Sampled by	Kim Lapszynski
Purge Start	12:49	Gallons Purged	1.59	Replicate/ Code No.			

Purge End 13:38

Time	Minutes	Total Elapsed	Rate	Depth to Water		pH (standard	Conductivity	Turbidity	Dissolved	Temperature	Redox	Appea	rance
Tille	Elapsed	Minutes	mL/min	(ft)	Purged	units)	(mS/cm)	(NTU)	Oxygen (mg/L)	°C	(mV)	Color	Odor
12:59	0	0	200	23.91	0.53	5.35	0.124	1.31	1.06	15.73	206.9	Clear	None
13:04	5	5	200	23.94	7.93	5.34	0.123	0.35	0.85	15.77	211.4	Clear	None
13:09	5	10	200	23.97	10.57	5.30	0.119	0.02	0.73	15.72	211.6	Clear	None
13:14	5	15	200	23.97	1.32	5.29	0.118	0.44	0.60	15.81	211.1	Clear	None
13:19	5	20	200	23.98	1.59	5.26	0.118	0.02	0.53	15.75	211.7	Clear	None

Constituent Sampled	Container	Number	Preservative
Total Dissolved Solids	500 mL Plastic	1	None
RAD 9315/9320	1L Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
Appendix III/IV Metals	500 mL Plastic	1	HNO3

#### Comments:

#### **Well Casing Volume Conversion**

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

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

#### Well Information

Well Locked at Arrival: yes

Condition of Well: Good condition

Well Locked at Departure: yes

Condition of Well: Good condition Well Locked at Departure: yes

Well Completion: Stick-up Key Number To Well: NA



D	-4 I4 <sup>1</sup>	AMA AD 2 A P and P'			
	ct Location: nit Number:	AMA AP-3, A, B and B'	1		
Perii	Well ID:	P7-04S	1		
Perso	on Gauging:		1		
. 0.50		2/7/2022	1		
		11:25:00	1		
			Yes	No	N/A
1	Location Ide	entification:			
	а	Is the well visible and accessible?	V		
	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?		$\overline{\checkmark}$	
	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)?	V		
	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)?	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)?	V		
	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?			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?			
	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)?			
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?			
7	Corrective a	ctions as needed, by date:			
8	Date by whe	en corrective actions are needed:			



			1		
		AMA AP-3, A, B and B'	-		
Perm	nit Number:		-		
		YGWA-20S	-		
Perso	on Gauging:		-		
		2/7/2022	1		
	ı ime:	11:44:00	Voc	Na	NI/A
1	Location Ide	antification.	Yes	No	N/A
ı					_
	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?			
	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)?	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)?	Ø		
4	Internal Cas	· ·			
	а	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)?	$\overline{\mathbf{Z}}$		
	С	Is the well properly vented for equilibration of air pressure?	$\square$		
	d	Is the survey point clearly marked on the inner casing?	$\square$		
	e	Is the depth of the well consistent with the original well log?			<b>✓</b>
	f	Is the casing stable? (or does the pvc 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:			
	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?			
	С	Does the well require redevelopment (low flow, turbid)?			
6		our professional judgement, is the well construction / location:			
3		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program			
		and 2) comply with the applicable regulatory requirements?	<b>I</b>		
7	Corrective	ctions as needed, by date:			_
1	Corrective a	ctions as necucu, 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	on Gauging:		_		
		2/7/2022	-		
	Time:	11:29:00	\		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?	<b>I</b>		
	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?			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?			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)	☑		
	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?	$\square$		
	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?	V		
	d	Is the survey point clearly marked on the inner casing?	$\overline{\mathbf{V}}$		
	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?			
	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)?			
6	Based on yo	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:			
,					
8	Date by whe	en corrective actions are needed:			



			1		
		AMA AP-3, A, B and B'	-		
Perm	nit Number:		_		
	Well ID:		-		
Perso	on Gauging:		-		
		2/7/2022	-		
	Time:	12:51:00	V	NI.	N1 / A
1	Location Ide		Yes	No	N/A
ļ					_
	a	Is the well visible and accessible?	☑		
	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?		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?	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?	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?			$\overline{\mathbf{Q}}$
	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	•			
	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)?	V		
	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?			
	f	Is the casing stable? (or does the pvc 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>I</b>		
5	Sampling: G	roundwater Wells Only:			
,		Does well recharge adequately when purged?			
	a				
	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)?			
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'	1		
Perm	nit Number:		1		
		YGWA-6S	-		
Perso	on Gauging:		-		
		2/7/2022	-		
	Time:	12:54:00	Voc	Na	NI/A
1	l osation Ido	ntification.	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?			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)?			
	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)	☑		
	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?	$\overline{\mathbf{V}}$		
	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?			
	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)?			
6	Based on vo	ur professional judgement, is the well construction / location:			
	, , ,	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	$\overline{\mathbf{V}}$		
		and 2) comply with the applicable regulatory requirements?	$\overline{\mathbf{V}}$		
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'			
	nit Number:				
	Well ID:	PZ-06D			
Perso	n Gauging:	Jessica Ware			
	Date:	2/7/2022			
	Time:	12:56:00			
			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?			
	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				
	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			
	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?			
	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?			
	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)?			
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:			



Proje	ct Location:	AMA AP-3, A, B and B'			
Pern	nit Number:		1		
	Well ID:	PZ-48			
Perso	on Gauging:	Jessica Ware	]		
	Date:	2/7/2022			
	Time:	13:01:00			
			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?	☑		
	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?			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?			
	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)?			
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:			



Proje	ct Location:	AMA AP-3, A, B and B'	1		
Perm	nit Number:		-		
		YGWC-49	-		
Perso	on Gauging:		-		
		2/7/2022	-		
	Time:	13:07:00	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		N 1 / A
1	La sada a tala		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?	V		
	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)?	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)	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?	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?			$\square$
	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?			
	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)?			
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:			



	-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:	Ρ7-24ΙΔ	1		
Perso	on Gauging:		1		
. 0.50		2/7/2022	1		
		13:14:00	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:			
	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)?	Ø		
	b	Is the well pad sloped away from the protective casing?			☑
	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?			
	f	Is the casing stable? (or does the pvc 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?			
	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:			



		[			
		AMA AP-3, A, B and B'	1		
Pern	nit Number:	VCINC 24CA	1		
D	יטו weil וט: on Gauging:	YGWC-24SA	1		
Perso		2/7/2022	1		
		13:17:00	1		
	i iiiie.		Yes	No	N/A
1	Location Ide	entification:	. 00		, , , .
·	a	Is the well visible and accessible?	$\square$		
	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?		Ø	
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<b>V</b>		
2	Protective C				
	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?			
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?			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 Cas	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?	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:			
	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?			
	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	Ø		
		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'			
	nit Number:				
	Well ID:	PZ-35			
Perso	n Gauging:	Jessica Ware			
	Date:	2/7/2022			
	Time:	13:27:00	ļ		
			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?			
	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?		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?			V
	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)	☑		
	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?	$\square$		
	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?	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?			
	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)?			
6	Based on yo	our professional judgement, is the well construction / location:			
	,	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<b>V</b>		
		and 2) comply with the applicable regulatory requirements?	<b>7</b>		
7	Corrective a	ctions as needed, by date:			
•	223.70 0				
۸	Date by whe	en corrective actions are needed:			
	_ aco by will				



			1		
		AMA AP-3, A, B and B'	-		
Perm	nit Number:		_		
	Well ID:		-		
Perso	on Gauging:		-		
		2/7/2022	1		
	l ime:	13:23:00	Vas	Na	NI/A
1	Location Ide	ntification.	Yes	No	N/A
'					
	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?	☑		
	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				
	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 Cas	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?			
	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)			
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?			
	С	Does the well require redevelopment (low flow, turbid)?			
6	Based on vo	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?	<b>✓</b>		
7	Corrective a	ctions as needed, by date:	-		
,	Jon Court d	and a medical of dute.			
8	Date by whe	en corrective actions are needed:			



			1		
		AMA R6 CCR Landfill	-		
Perm	nit Number:		-		
		YGWC-36A	-		
Perso	on Gauging:				
		2/7/2022	-		
	l ime:	13:31:00	Voc	No	NI/A
1	Location Ide	entification:	Yes	INO	N/A
'			$\overline{\mathbf{Q}}$		
	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?	$\square$		
	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?	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?			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)	V		
	е	Is the pad surface clean (not covered with sediment or debris)?	$\overline{\mathbf{V}}$		
4	Internal Casi	· · ·			
	a	Does the cap prevent entry of foreign material into the well?	$\overline{\mathbf{A}}$		
	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?	$\square$		
	d	Is the survey point clearly marked on the inner casing?	$\square$		
	e	Is the depth of the well consistent with the original well log?			
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand	_		
		due to lack of grout or use of slip couplings in construction)	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?			
	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:			
	Label only s	ays "YGWC-36" missing "36A"			
Ω	Date by who	en corrective actions are needed:			
o	Date by Wile	TOTICCHYC ACTIONS ARE NEEDED.			



			1		
Proje	ct Location:	AMA R6 CCR Landfill	-		
Perm	nit Number:		-		
	Well ID:		-		
Perso	on Gauging:		-		
		2/7/2022	-		
	Time:	13:44:00	V	NI-	NI/A
1	l:   -  -		Yes	No	N/A
I	Location Ide			_	
	a	Is the well visible and accessible?	Ø		
	b	Is the well properly identified with the correct well ID?			
	C	Is the well in a high traffic area and does the well require protection from traffic?			
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	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?	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 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?	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)	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?			
	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	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:			



Proje	ct Location:	AMA R6 CCR Landfill			
Pern	nit Number:		]		
	Well ID:	YGWC-42			
Perso	on Gauging:	Jessica Ware			
	Date:	2/7/2022			
	Time:	13:47:00	<u> </u>		
			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?	$\square$		
	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?	Ø		
	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)?	$\square$		
	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)?	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?	$\square$		
	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?			
	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)?			
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:			
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AMA R6 CCR Landfill			
	nit Number:		1		
	Well ID:	YAMW-4			
Perso	on Gauging:	Jessica Ware	]		
	Date:	2/7/2022			
	Time:	13:52:00			
			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?	☑		
	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?			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)?	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?			$\square$
	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?			
	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)?			
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:			



D	-4 1 4*	AMA DC CCD Landfill			
	ct Location: nit Number:	AMA R6 CCR Landfill	1		
Perii	Well ID:	YGWC-41	1		
Perso	on Gauging:		1		
. 0.50		2/7/2022			
		13:55:00	1		
			Yes	No	N/A
1	Location Ide	ntification:			
	a	Is the well visible and accessible?	v		
	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?	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				
	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)?	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)?	V		
	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?			
	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)?			
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:			



		AMA R6 CCR Landfill	1		
Perm	nit Number:		-		
		YGWA-39	-		
Perso	on Gauging:		_		
		2/7/2022	-		
	Time:	14:05:00	<u> </u>		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?			$\square$
	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?	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)	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?	Ø		
	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?	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?			
	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)?			
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:			



Dua!a	at I a aatiam.	AMA R6 CCR Landfill			
	it Number:	ANA RO CCR Landini	1		
reiii	Well ID:	P7-52D			
Perso	on Gauging:		1		
		2/7/2022			
	Time:	14:22:00	]		
			Yes	No	N/A
1	Location Ide	ntification:			
	a	Is the well visible and accessible?	V		
	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?			
	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)?	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)?	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)?			
	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)	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?			
	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:			



		AMA R6 CCR Landfill			
Perm	nit Number:		-		
	Well ID:		-		
Perso	on Gauging:		_		
		2/7/2022	-		
	Time:	14:18:00	\		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?	<b>I</b>		
	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?	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)	☑		
	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?	$\square$		
	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?	$\overline{\mathbf{V}}$		
	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?			
	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)?			
6	Based on yo	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:			
•	321.000ivo u				
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AMA AP-3, A, B and B'	1		
Perm	nit Number:		1		
	Well ID:		-		
Perso	on Gauging:		-		
		2/7/2022	-		
	Time:	14:23:00	V	NI.	NI/A
1	l osation Ido	ntification.	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?	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)?			
	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)			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?	V		
	d	Is the survey point clearly marked on the inner casing?	$\overline{\mathbf{V}}$		
	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?			
	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)?			
6	Based on vo	our professional judgement, is the well construction / location:			
	, , ,	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	$\overline{\mathbf{V}}$		
		and 2) comply with the applicable regulatory requirements?	$\overline{\mathbf{V}}$		
7	Corrective a	ctions as needed, by date:			
•	Jon Court di	and the country of dute.			
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AMA R6 CCR Landfill	1		
Perm	nit Number:		-		
	Well ID:		-		
Perso	on Gauging:		-		
		2/7/2022	-		
	Time:	14:26:00	.,		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?			$\square$
	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?	☑		
	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?			
	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)?			
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			
Perm	nit Number:		-		
	Well ID:				
Perso	on Gauging:		-		
		2/7/2022	-		
	Time:	14:40:00	1		
_			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?		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?			
	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?	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)	$\square$		
	е	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?	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?			
	d	Is the survey point clearly marked on the inner casing?			
	е	Is the depth of the well consistent with the original well log?			<b>☑</b>
	f	Is the casing stable? (or does the pvc 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>I</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?			
	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?			
7	Corrective a	ctions as needed, by date:			
•					
8	Date by whe	en corrective actions are needed:			



D.,	.41	AMA DE CCD Landfill			
	ct Location: nit Number:	AMA R6 CCR Landfill	1		
Perii		YGWC-38	1		
Perso	on Gauging:		1		
. 0.50		2/7/2022			
	Time:	14:33:00			
			Yes	No	N/A
1	Location Ide	ntification:			
	a	Is the well visible and accessible?	v		
	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?		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?	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				
	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)?	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)?	V		
	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?			
	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)?			
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:			



		AMA R6 CCR Landfill	1		
Perm	nit Number:		-		
	Well ID:		-		
Perso	on Gauging:		_		
		2/7/2022	-		
	Time:	15:20:00	.,		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?	☑		
	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)	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)?	$\overline{\mathbf{V}}$		
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 AD 2 A D I DI	1		
		AMA AP-3, A, B and B'	1		
Perm	nit Number:	YGWC-23S	-		
Dorce	on Gauging:		-		
Perso		2/7/2022	1		
		14:46:00	1		
	Time.		Yes	No	N/A
1	Location Ide	ntification:	. 00		, , .
	а	Is the well visible and accessible?	<b>V</b>		
	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)	v		
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?	$\overline{\mathbf{A}}$		
	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)	v		
	е	Is the pad surface clean (not covered with sediment or debris)?	Ø		
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?	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?			
	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)?			
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:	YGWC-43			
Perso	n Gauging:	Jessica Ware			
		2/7/2022			
	Time:	14:59:00			
			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?		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 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?			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?			
	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)?			
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:	AMA R6 CCR Landfill			
	nit Number:				
	Well ID:	PZ-51			
Perso	n Gauging:	Jessica Ware			
	Date:	2/7/2022			
	Time:	15:06:00	ļ		
			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?			
	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				
	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		
	e	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?			
	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?			
		Is the depth of the well consistent with the original well log?	<b>Ø</b>		
	e	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand			
	f	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?			
	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	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:			

# **Upgradient Wells**



Proje	ct Location:	AP-2			
Pern	nit Number:				
	Well ID:	YGWA-30I			
Perso	on Gauging:	Khalil Carson			
	Date:	2/8/2022			
	Time:	08:55:00			
			Yes	No	N/A
1	Location Ide	entification:			
	a	Is the well visible and accessible?	V		
	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?	$\square$		
	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?	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?	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)?	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)	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?			
	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	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:			



	ct Location:	AP-2	-		
Perm	nit Number:		-		
		YGWA-14S	-		
Perso	n Gauging:		1		
		2/8/2022	-		
	Time:	08:39:00			
			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?	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?	V		
	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)?	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				
	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)?	V		
	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?	<u> </u>		
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand		_	
	CC	due to lack of grout or use of slip couplings in construction)			
5	, ,	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)?		<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	☑		
		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:	AP-2			
Perm	nit Number:				
	Well ID:	YGWA-1I			
Perso	n Gauging:	Jessica Ware			
		2/7/2022			
	Time:	15:46:00			
			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?		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 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)?	$\square$		
	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?			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?			
	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)?			
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	caons as necaea, by date.			
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AP-2			
Perm	nit Number:				
	Well ID:	YGWA-3I			
Perso	n Gauging:	Jessica Ware			
		2/7/2022			
	Time:	15:26:00			
			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?		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?	$\square$		
	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?			
	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?			
	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)?			
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-3D			
Perso	on Gauging:	Jessica Ware			
		2/7/2022			
	Time:	15:28:00			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?	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?	$\square$		
	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?			
	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?			
	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)?			
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?			
7	Corrective a	ctions as needed, by date:	·		_
,	corrective a	enons as necacu, by auto.			
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AP-2			
Perm	nit Number:				
	Well ID:	YGWA-2I			
Perso	on Gauging:	Jessica Ware			
		2/7/2022			
	Time:	15:37:00			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?	$\square$		
	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?	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	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)?	$\square$		
	С	Is the well properly vented for equilibration of air pressure?	$\square$		
	d	Is the survey point clearly marked on the inner casing?			
	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?			
	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)?			
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?			
7	Corrective a	ctions as needed, by date:	·		_
,	corrective a	enons as necacu, by auto.			
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AP-2			
Perm	nit Number:				
	Well ID:	YGWA-1D	ļ		
Perso	on Gauging:				
		2/7/2022			
	Time:	15:43:00			
			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?	☑		
	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	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?			
	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)?			
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:	AMA AP-3, A, B and B'	_		
Perm	nit Number:		-		
	Well ID:		-		
Perso	on Gauging:		-		
		2/7/2022	-		
	Time:	11:16:00	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		N1 / 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?	<b>☑</b>		
	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?		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?		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)	☑		
	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?	V		
	d	Is the survey point clearly marked on the inner casing?			
	e	Is the depth of the well consistent with the original well log?			
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	$\square$		
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?			
	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			
		and 2) comply with the applicable regulatory requirements?			
7	Corrective a	ctions as needed, by date:			
•	321.000ivo u				
8	Date by whe	en corrective actions are needed:			



Proje	ct Location:	AMA AP-3, A, B and B'	_		
Perm	nit Number:		_		
		YGWA-5D	-		
Perso	on Gauging:		-		
		2/7/2022	-		
	Time:	11:34:00	Voc	Na	NI/A
1	l osation Ido	ntification.	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?		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)	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?			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?			
	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)?			
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				
8	Date by whe	en corrective actions are needed:			



			1		
		AMA AP-3, A, B and B'	-		
Perm	nit Number:		_		
		YGWA-20S	-		
Perso	on Gauging:		-		
		2/7/2022	-		
	Time:	11:44:00	V	NI.	N1 / A
	Location Ide		Yes	No	N/A
ı					_
	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?		$\square$	
	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?	$\square$		
	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)?	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)	$\square$		
	е	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?	$\square$		
	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?	$\square$		
	e	Is the depth of the well consistent with the original well log?		_	
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<b>I</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?			
	С	Does the well require redevelopment (low flow, turbid)?			
6	Rased 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?	☑		
7	Corrective a	ctions as needed, by date:			
8	Date by whe	en corrective actions are needed:			



		AMA AP-3, A, B and B'	1		
Perm	nit Number: Well ID:	VCWA EL	-		
Dorce	on Gauging:		-		
Perso		2/7/2022	1		
		11:32:00	1		
	· · · · · · · · · · · · · · · · · · ·		Yes	No	N/A
1	Location Ide	entification:			,
	a	Is the well visible and accessible?	V		
	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:			
	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?		$\square$	
	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?			
	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)?			
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:			



Proje	ct Location:	AMA AP-3, A, B and B'	_		
Perm	nit Number:		_		
		YGWA-21I	-		
Perso	n Gauging:		-		
		2/7/2022	-		
	Time:	11:53:00	Voc	Na	NI/A
1	Location Ido	atification.	Yes	No	N/A
'	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?		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)	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?	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		
	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?			
	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)?			
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:			



			1		
		AMA AP-3, A, B and B'	-		
Perm	nit Number:	VOLUM 476	-		
		YGWA-17S	-		
Perso	on Gauging:	2/7/2022	-		
		12:25:00	1		
	i iiiie:	12.23.00	Yes	No	N/A
1	Location Ide	entification:	163	140	ואות
'		Is the well visible and accessible?	$\overline{\mathbf{Z}}$		
	a	Is the well properly identified with the correct well ID?			
	b			☑	
	C	Is the well in a high traffic area and does the well require protection from traffic?		IV.	
	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?	V		
	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)?	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?	$\overline{\mathbf{V}}$		
	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)	v		
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?			
	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	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'			
	nit Number:				
	Well ID:	YGWA-18I			
Perso	n Gauging:	Jessica Ware			
	Date:	2/7/2022			
	Time:	12:35:00	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?	$\square$		
	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		
	e	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?			
	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?			
		Is the depth of the well consistent with the original well log?			<b>□</b>
	e	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand			
	f	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?			
	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	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'			
	nit Number:				
	Well ID:	YGWA-18S			
Perso	n Gauging:	Jessica Ware			
	Date:	2/7/2022			
	Time:	12:39:00	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				
	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		
	e	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?			
	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?			
		Is the depth of the well consistent with the original well log?			<b>□</b>
	e	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand			
	f	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?			
	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	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:			



			1		
Proje	ct Location:	AMA R6 CCR Landfill			
Perm	nit Number:				
		YGWA-40	-		
Perso	on Gauging:		1		
		2/7/2022	-		
	Time:	14:00:00	\		
			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?		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?	$\square$		
	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?	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?			Ø
	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	· · ·			
	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?	$\square$		
	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)	<b>V</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?			
	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	$\overline{\mathbf{V}}$		
		and 2) comply with the applicable regulatory requirements?	$\overline{\mathbf{V}}$		
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	on Gauging:		_		
		2/7/2022	-		
	Time:	14:05:00	<u> </u>		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?			$\square$
	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?	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)	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?	Ø		
	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?	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?			
	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)?			
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:	Gypsum Landfill	1		
Pern	nit Number:		_		
	Well ID:		_		
Perso	on Gauging:		-		
		2/7/2022	-		
	l ime:	11:05:00	Voc	No	NI/A
1	Location Ide	entification:	Yes	INO	N/A
1		Is the well visible and accessible?	$\overline{\mathbf{Q}}$		
	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?	V		
	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)?	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 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?	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)	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	Based on vo	our professional judgement, is the well construction / location:			
	, , , ,	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<b>V</b>		
		and 2) comply with the applicable regulatory requirements?	<b>V</b>		
7	Corrective a	ctions as needed, by date:			
•	None				
	. 10110				
8	Date by whe	en corrective actions are needed:			



Proie	ct Location:	AP-1			
	nit Number:		1		
	Well ID:	YGWA-47			
Perso	on Gauging:	Mark Chest	]		
	Date:	2/7/2022			
	Time:	12:32:00			i
			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?	Ø		
	b	Is the casing free of degradation or deterioration?	$\square$		
	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?	$\square$		
	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?	$\square$		
	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)	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	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:			

## **Appendix B**

Monitoring Well Abandonment Records (May 2022)





## **WELL ABANDONMENT REPORT**

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

August 16, 2022

## **Well Abandonment Report**

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

August 16, 2022

Prepared By:

Arcadis U.S., Inc.

2839 Paces Ferry Road, Suite 900

Atlanta

Georgia 30339

Phone: 770 431 8666 Fax: 770 435 2666 **Prepared For:** 

Georgia Power Company

Becky Steever Staff Geologist

Geoffrey Gay, PE

Technical Expert (Eng)

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1	Introductioni
2	Abandonment Activities1

## **Figures**

Figure 1. Site Location Map

Figure 2. Well Location Map

## **Appendices**

A Well Abandonment Records

#### PROFESSIONAL ENGINEER CERTIFICATION

I certify that I am a qualified groundwater scientist who has received a baccalaureate or post-graduate degree in the natural sciences or engineering and have sufficient training and experience in groundwater hydrology and related fields as demonstrated by state registration and completion of accredited university courses that enable me to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management, and 40 CFR Part 258.50(g). I further certify that this report was prepared by me or by a subordinate working under my direction.



J. Geoffrey Gay, P.E.

Principal Environmental Engineer Georgia Registration No. 27801 8.31.22

Date

#### 1 Introduction

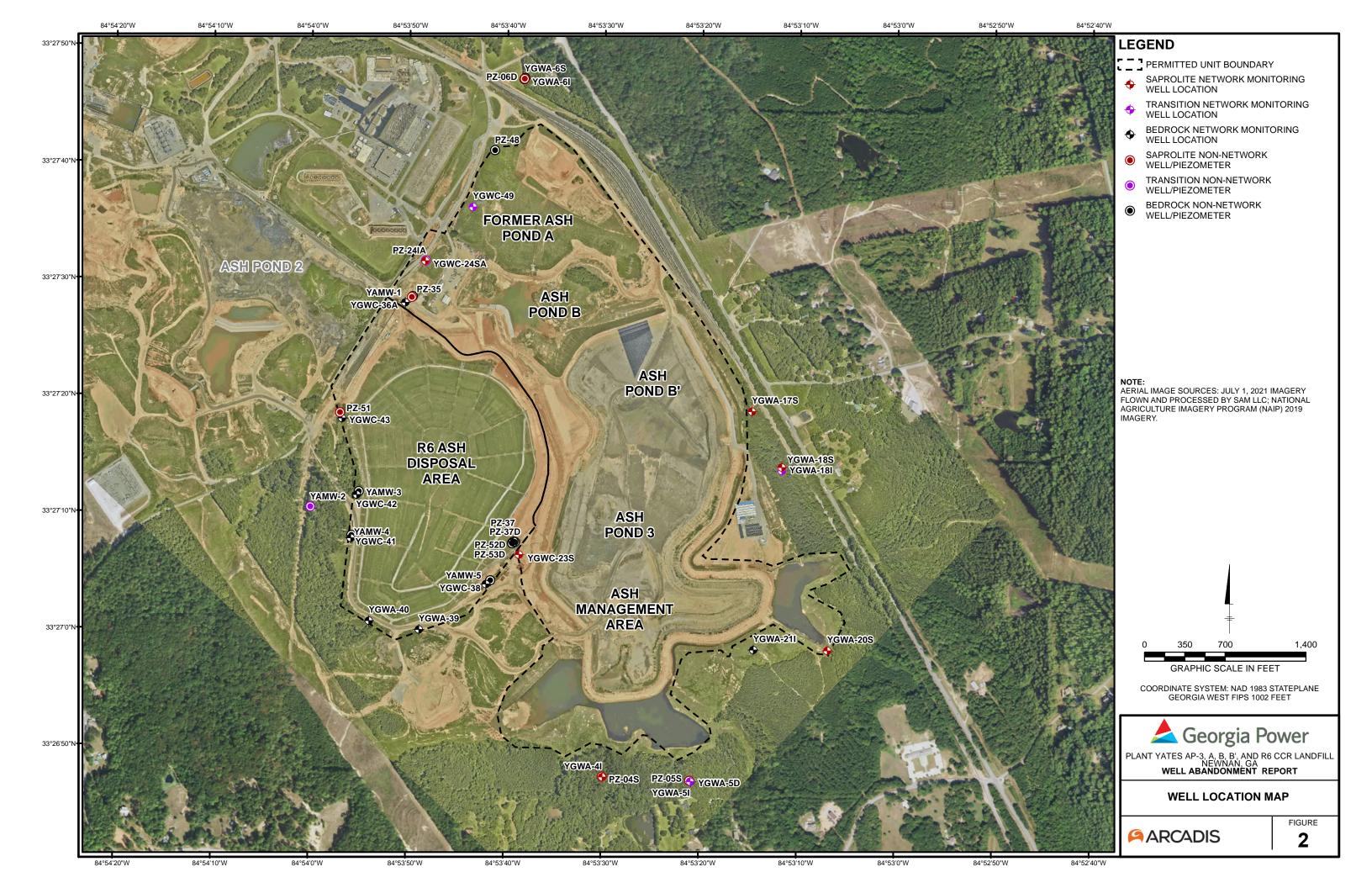
Plant Yates is located at 708 Dyer Road on the east bank of the Chattahoochee River in Coweta County, Georgia near the Coweta and Carroll County line. The site is approximately eight miles northwest of the city of Newnan and 13 miles southeast of the city of Carrollton. Plant Yates, once a coal-fired power generation facility converted to natural gas combustion turbines, occupies approximately 2,400 acres. The Dyer Road re-alignment construction activities at Georgia Power Company Plant Yates necessitated the abandonment of a groundwater monitoring wells and piezometer at Ash Ponds (AP) AP-3, A, B, B', and the R6 Landfill. This report documents the abandonment of monitoring well YGWC-24SA and piezometer PZ-24I on May 25, 2022. **Figure** 1 depicts the configuration of ash ponds AP-A, AP-B, AP-B', AP-3, and the R6 CCR Landfill, and **Figure 2** depicts the location of the monitoring wells.

#### 2 Abandonment Activities

Monitoring well abandonment was performed by Cascade Environmental under contract with Southern Company Services (SCS) Field Services. The abandonment activities were performed under the oversight and direction of a Georgia Registered Professional Engineer with Arcadis. Monitoring well YGWC-24SA and piezometer PZ-24IA were abandoned by grouting in place. The concrete pads and bollards were removed, and the casing was over-drilled and cut off at a depth of 10-feet below ground surface. The screen and riser pipe were tremie-grouted with a 30 percent solids bentonite grout to ground surface. The surrounding area consists of vegetation and/or bare soil. No resurfacing efforts were required to match the surrounding surface condition. Well abandonment records are provided in **Appendix A**.

# **Figures**





# **Appendix A**

**Well Abandonment Records** 

#### **MONITOR WELL ABANDONMENT RECORD**



**Site Name: Power Plant Yates** 

Wel	I ID: \	CW	C-2/	CA
vvei	110.1	I G V V	<b>L-24</b>	-38

Site Name: Power Plant Yates				County: Coweta County		
Well ID: <u>YGWC-24SA</u> Date Installed: <u>6/4/2020</u>				Project Number: <u>30055278</u> Date Abandoned: <u>5/25/2022</u>		
Subcontractor: Cascade				Well Depth: 62 ft		
Screen Depth from TOC (ft): NA ft				Water Table De	epth from TOC: 27.84	
Casing Type:	Galvanized	PVC 🗸	Stainless Steel	ID	: 2in / 4in	
Screen Type:	PVC / St	ainless steel	Abandoned Scr	een Length: 10 f	t	
2in Annulus Grouted:	Yes	No fro	om <u>54</u> ft to <u>0</u> ft	Grout Type	: <u>Bentonite</u>	
4in Annulus Grouted:	Yes	Nofro	omft toft	Grout Type	:	
Casing:	Pulled	Cut 🗸 De	epth BGS: 10	Well Grouted?	Yes No	
Grout Type:	Bentonite	Cement	Grout Mixture: Chips		Slurry	
Grouting Method:	Thro	ough Casing	Tremie	$\checkmark$	Poured	
<u>Crew:</u>		Other	Grouting Method	d Other:		
<u>Comments:</u> Materials: Tremie grout. Approximately 2.5 bag						
Well overdrilled to 10 fe	eet bgs.					
Notes:						
ft - feet	in - incl	nes TO	OC - Top of Casing			
ID - Inside Diameter	BGS -	BGS - Below ground surface				

#### **MONITOR WELL ABANDONMENT RECORD**



**Site Name: Power Plant Yates** 

Well ID: YGWC-24SA

Location Sketch: See attached site map

#### **Well before Abandonment**



**Additional Photos** 



**Well after Abandonment** 



# **MONITOR WELL ABANDONMENT RECORD**



**Site Name : Power Plant Yates** 

Wal	ш	D·	<b>D7</b>	-241	Δ
vvei		<b>U</b> .		-241	_

Site Name: Power Plan	nt Yates			County: Coweta	a County
Well ID: <u>PZ-24IA</u> Date Installed:				Project Number Date Abandone	
Subcontractor: Cascad	<u>le</u>			Well Depth: 89.	<u>53</u> ft
Screen Depth from TO	C (ft): <u>79.53</u> ft			Water Table De	epth from TOC: <u>28.52</u>
Casing Type:	Galvanized	PVC	Stainless Stee	ID ID	: 2in / 4in
Screen Type:	PVC / Stai	inless steel	Abandoned Sci	een Length: ft	
2in Annulus Grouted:	Yes ✓	No from	m <u>89</u> ft to <u>0</u> ft	Grout Type	: <u>Bentonite</u>
4in Annulus Grouted:	Yes	Nofrom	m ft to ft	Grout Type	:
Casing:	Pulled	Cut / De	pth BGS: 10	Well Grouted?	Yes No
Grout Type:	Bentonite	Cement G	rout Mixture: Chips		Slurry
Grouting Method:	Throu	ugh Casing	Tremie	· 🗸	Poured
Crew:		Other	Grouting Method	d Other:	
<u>Comments:</u> Materials: Tremie grout. Approximately 2.75 ba	, •				
Well overdrilled to 10 fe	eet bgs.				
Notes:					
ft - feet	in - inche	es TO	C - Top of Casing		
ID - Inside Diameter	BGS - B	elow ground surfac	e		

# MONITOR WELL ABANDONMENT RECORD



**Site Name: Power Plant Yates** 

Well ID: PZ-24IA

Location Sketch: See attached site map

## **Well before Abandonment**



## **Well after Abandonment**



Arcadis U.S., Inc. 2839 Paces Ferry Road, Suite 900 Atlanta Georgia 30339 Phone: 770 431 8666

Fax: 770 435 2666 www.arcadis.com

# **Appendix C**

**Analytical Laboratory Data and Validation Reports** (February 2022)

# February 2022



# Georgia Power Co. - Plant Yates

# **Data Review Report**

Metals and General Chemistry Analyses

SDG #92587090

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

Report #44871R Review Level: Tier II Project: 30052922.00004

# **Summary**

This Data Review Report summarizes the review of Sample Delivery Group (SDG) #92587090 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		
Sample ID	Lab ID	Matrix	Collection Date	Parent Sample	RAD	MET	GEN CHEM
YGWC-49	92587090001	Water	2/8/2022			Х	Х
YGWC-41	92587090002	Water	2/8/2022			Х	X
AMA-DUP-2	92587090003	Water	2/8/2022	YGWC-41		Х	Х
YGWC-43	92587090004	Water	2/8/2022			Х	Х
AMA-EB-1	92587090005	Water	2/8/2022			Х	Х
YAMW-5	92587090006	Water	2/10/2022			Х	Х
PZ-37	92587090007	Water	2/10/2022			Х	Х
AMA-DUP-4	92587090008	Water	2/10/2022	PZ-37		Х	Х
PZ-51	92587090009	Water	2/10/2022			Х	Х
YAMW-1	92587090010	Water	2/10/2022			Х	Х
PZ-35	92587090011	Water	2/10/2022			Х	Х
YAMW-4	92587090012	Water	2/10/2022			Х	Х
YGWC-23S	92587090013	Water	2/10/2022			Х	Х
YGWC-38	92587090014	Water	2/10/2022			Х	Х
YGWC-42	92587090015	Water	2/10/2022			Х	Х
YGWC-24SA	92587090016	Water	2/10/2022			Х	Х
AMA-DUP-1	92587090017	Water	2/10/2022	YGWC-24SA		Х	Х
YGWC-36A	92587090018	Water	2/11/2022			Х	Х
YAMW-2	92587090019	Water	2/10/2022			Х	Х

		Matrix	Sample Collection Date		Analysis			
Sample ID	Lab ID			Parent Sample	RAD	MET	GEN CHEM	
YAMW-3	92587090020	Water	2/10/2022			Х	Х	
AMA-EB-2	92587090021	Water	2/10/2022			Х	Х	
AMA-FB-1	92587090022	Water	2/10/2022			Х	Х	
AMA-FB-2	92587090023	Water	2/10/2022			Х	Х	
PZ-37D	92587090024	Water	2/11/2022			Х	Х	
PZ-52D	92587090025	Water	2/11/2022			Х	Х	

#### Notes:

- 1. Metals and total dissolved solids (TDS) analysis performed by Pace Analytical Services Peachtree Corners, Georgia.
- 2. Anions (chloride, fluoride, and sulfate) analysis performed by Pace Analytical Services Asheville, North Carolina.
- 3. pH analysis performed as a field measurement.

# **Analytical Data Package Documentation**

The table below evaluates the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not
	No	Yes	No	Yes	Required
Sample receipt condition		Х		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		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, and 7470A; Standard Method (SM) SM4500-H+ B and SM2540C; and USEPA Method 300.0. Data were reviewed in accordance with USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma—Atomic Emission Spectroscopy and Inductively Coupled Plasma—Mass Spectroscopy (September 2011, Rev. 2), and the USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA 542-R-20-006, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, OSWER 9240.1-45, October 2004, as appropriate).

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

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

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

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information

## **Data Review Report**

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
YGWC-36A YAMW-2	Boron (EB)	Detected sample results <rl <bal<="" and="" td=""><td>"UB" at the RL</td></rl>	"UB" at the RL
PZ-52D	Arsenic (MB)		
PZ-35	Boron (EB)	Detected sample results >RL and <bal< td=""><td>"UB" at the detected sample concentration</td></bal<>	"UB" at the detected sample concentration

#### Notes:

EB = Equipment blank

MB = Method blank

RL = Reporting limit

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

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

# 3.1 MS/MSD Analysis

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

The MS/MSD analysis was performed using sample AMA-DUP-2 in association with SW-846 6010D analysis. The concentration of calcium in the unspiked sample was greater than four-times the amount of spike added; hence the recoveries were not evaluated, and no qualification of the results was required.

The MS/MSD analysis performed using sample YGWC-41 in association with SW-846 6020B analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed using sample YGWC-38 in association with SW-846 7470A analysis exhibited recoveries within the control limits.

# 3.2 Laboratory Duplicate Analysis

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

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis. The MS/MSD recoveries exhibited acceptable RPDs.

# 4. Field Duplicate Analysis

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

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
	Antimony	0.0030 U	0.0018 J	
	Arsenic	0.0021 J	0.0027 J	
	Barium	0.021	0.021	AC
	Beryllium	0.0016	0.0017	AC
YGWC-41 / AMA-DUP-2	Cadmium	0.00012 J	0.00012 J	
	Lithium	0.0023 J	0.0024 J	-
	Calcium	15.0	14.6	2.7%
	Boron	4.0	4.1	2.5%
	Selenium	0.031	0.032	3.2%
	Arsenic	0.0017 J	0.0018 J	
	Beryllium	0.0010	0.0011	-
	Cadmium	0.00093	0.00089	AC
	Cobalt	0.0036 J	0.0041 J	-
PZ-37 / AMA-DUP-4	Lithium	0.017 J	0.017 J	-
	Calcium	106	107	0.9%
	Barium	0.029	0.029	0.0%
	Boron	9.5	9.6	1.0%
	Selenium	0.20	0.20	0.0%
	Calcium	2.2	2.2	
VCIAIC 24CA / AMA DUD 4	Arsenic	0.0024 J	0.0019 J	AC
YGWC-24SA / AMA-DUP-1	Beryllium	0.00016 J	0.00017 J	-
	Barium	0.026	0.027	3.8%

# Note:

AC = Acceptable

The differences in the results between the parent sample YGWC-41 and field duplicate sample AMA-DUP-2 were acceptable.

The differences in the results between the parent sample PZ-37 and field duplicate sample AMA-DUP-4 were acceptable.

The differences in the results between the parent sample YGWC-24SA and field duplicate sample AMA-DUP-1 were acceptable.

# 5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

# 6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

# **Data Validation Checklist for Metals**

METALS: SW-846 6010D/6020B/7470A		Reported		rmance eptable	Not Required	
	No	Yes	No	Yes		
Inductively Coupled Plasma-Atomic Emission Spectro Inductively Coupled Plasma-Mass Spectrometry (ICP-I Cold Vapor Atomic Absorption (CVAA)		AES)				
Tier II Validation						
Holding Times		X		Х		
Reporting limits (units)		Х		Х		
Blanks				l .		
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)	X				X	
Field Duplicate (RPD)		X		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
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
YGWC-24SA			((18)
AMA-DUP-1	TDS (EB)	Detected sample results >RL and <bal< td=""><td>"UB" at the detected</td></bal<>	"UB" at the detected
YGWC-36A			sample concentration
YAMW-2			

#### Notes:

EB = Equipment blank

RL = Reporting limit

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

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

# 3.1 MS/MSD Analysis

All analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory flag will be removed.

The MS/MSD analysis performed using sample PZ-37 in association with USEPA 300.0 analysis exhibited chloride and fluoride recoveries within the control limits. The concentration of sulfate in the unspiked sample was greater than four-times the amount of spike added; hence the recoveries were not evaluated, and no qualification of the results was required.

The MS/MSD analysis performed using samples AMA-DUP-1 and PZ-37D in association with chloride, fluoride, and sulfate 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 AMA-DUP-4, YAMW-2, and PZ-37D in association with TDS analysis exhibited RPDs within the control limit.

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis in association with chloride, fluoride, and sulfate analysis. The MS/MSD recoveries exhibited acceptable RPDs.

# 4. Field Duplicate Analysis

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

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
	Chloride	3.5	3.5	AC
YGWC-41 / AMA-DUP-2	TDS	226	235	3.9%
	Sulfate	109	107	1.9%
	Chloride	4.2	4.2	AC
PZ-37 / AMA-DUP-4	TDS	798	772	3.3%
	Sulfate	452	475	5.0%
YGWC-24SA / AMA-DUP-1	Chloride	8.7	8.7	0.0%

#### Note:

AC = Acceptable

The differences in the results between the parent sample YGWC-41 and field duplicate sample AMA-DUP-2 were acceptable.

The differences in the results between the parent sample PZ-37 and field duplicate sample AMA-DUP-4 were acceptable.

The differences in the results between the parent sample YGWC-24SA and field duplicate sample AMA-DUP-1 were acceptable.

# 5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

# 6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

# **Data Validation Checklist for General Chemistry**

General Chemistry: SM4500-H+ B, SM2540C, SM2320B. USEPA 300.0	Rep	orted		rmance eptable	Not Required	
3M2320B. USEFA 300.0	No	Yes	No	Yes		
Miscellaneous Instrumentation						
Tier II Validation						
Holding Times		Х		Х		
Reporting limits (units)		Х		Х		
Blanks	I	1	ı	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

VALIDATION PERFORMED BY: Jennifer Singer

SIGNATURE:

DATE: March 18, 2022

Sknrije Osinger

PEER REVIEW: Dennis Capria

DATE: March 22, 2022

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# CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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Compa	· Orthonor	Report To:			ontacts	-				-	ntion.	nform													P	age :		Of	) 1
Address	Atlanta, GA	Copy To:			Contac	te	- Line			-	Section Character	Name		em C	0.													mountaine.	
									_	Addr	_	INAME									L								Č
Email T	0:	Purchase O	rder #							-	Quo	nto.									34200	经决点	(SAS)	394515	Regu	latory A	gency	5,74 - E 312	
Phone:	Fax	Project Nam	ie.	Plai	nt Yates	AMA-R	3				175.57	ect Ma														- Letterals			
Reques	ted Due Date	Project Num	ber				_		-	-	_	ile#			_						200		FIGURE 1	er ine	Stat	te / Loc	tion	ENTERNA	Salenga.
		A		Manual Control					-	1 acc	. 1101	110 2	10	840			_				<u> </u>					Georgia	•		
			ê							П	_			. 457			250		Keq	uestec	d Analy	sts Fit	tered	(Y/N)	Charles of	Sec. 1			
	MATRIX Drinking to		des to le	COMP		COLLE	CTED		₹	П	_	F	rese	rvativ	es		K		_		Ц								
	SAMPLE ID Sout/Code One Character per box. Wipe	WT P SL OL WP AR	E (see valid cor	E (G=GRAB C=COMP)	ST	<b>V</b> RT	E	ND	AT COLLECTION	ERS							3 Test	ls		0						ne (Y/N)			
ITEM#	(A-Z, 0-9 /, -) Ar Coner Sample ids must be unique Tirsue	AR OT TS	MATRIX CODE	SAMPLE TYPE	DATE	TIME	DATE	TIME	SAMPLE TEMP	# OF CONTAINERS	Unpreserved	H2SO4	HC.	NaOH	Na2S2O3	Methanol	Analyses	App III/IV Metals	CI, F. SO4	RAD 9315/9320						Residual Chlorine (Y/N)			
14	AMA-EB-1		WT		2822	K30		_		-	2		_	+-+	-	+	8100	-	<del>-,</del> -	_	+	+	$\vdash$	+	+	~			
2	AMA EB-2		WT		clater	100		-	-	-	-	-	+-	H	-	+	-	$\vdash$	_	-	1	$\sqcup$	$\sqcup$		$\sqcup$		<u> </u>	Wall	
3			$\vdash$				==				-			口	1	$\pm$	-	X	X X	X	$\vdash$	+		$\dashv$	++	+			
nia i ezer	AMA-FB-1		WT		_					5	2		4	11				x	XX	×	$\Box$	$\Box$			$\Box$	工			
4	AMA-FB-2		WI	G		-				5	2					1	1	x	x x	Y				$\pm$		$\dashv$			
5			Т	П					$\vdash$	$\vdash$	+	_	F	H	$\mp$	+	†	F	7	1	=	$\mp$	H		+	$\exists$			
6			+	$\vdash$		-1			-	H	-	+	+	H	+	_	4	$\blacksquare$		$\perp$		$\perp$			$\sqcup$				
7			+							Ш	_	$\perp$		L			J							İ					
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- 8										П	П			$\Box$		$\top$	1	П	$\neg$	$\top$	-		$\vdash$	+	$\vdash$	$\dashv$			
9			П					3		$\vdash$	7	$\dashv$	+	$\vdash$	+	+	1	Н	+	+	$\vdash$	+	-	-	+	$\dashv$			
10			1						├	$\vdash$	$\dashv$	+	-	$\vdash$	-	+	-	$\vdash$	+	$\perp$	-	+	$\vdash$		$\sqcup$	_		10.0	
11			+	-					_	Н	4	_	_	$\sqcup$	_		4		$\perp$										
The Committee of			+														1		-	1								mond factors - condition	
12			L														1	П		$\Box$			$\Box$		$\Box$	$\neg$			
	ADDITIONAL COMMENTS	R	ELING	NISH	IED BY /	AFFILIAT	ON	DA	TE		IME	5		AC	CEP	LED B	Y/A	FILIA	-			DATE		TIM	Licher B		SAMPLE (	ONDITION	s.
	Suite 300.0 (CI, F, Sulfate)	12	in	3	TO C	1	/Arcadis		77	08	22	_		2		21	4	ca	di	5		2/9/2	_	08:					
	Metals: Boron 6020B, Ca 6010D	12	and the same	/	710	00/15		770	<u> </u>	U	18	>		11	1	16	p	2			_ [1	2/9	1	100	8				
(Pb), Li	Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), m (Be), Cadmium (Cd), Chromlum (Cr), Cobalt (Co), Lead hium (Li), Molybdenum (Mo), Selenium (Se) Mercury (Hg)						-20					+			H-10111							10.571	-			****			
			-			SAMPLE	CO-000 (000 000)			20635410																	_		
						PR K SIG	INT Nam	LIDS Of SAM	PLER:	nsk	=				_			D	ATE S	a 12	2					TEMPING	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)



SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92587090	PZ-35	SW846 6020B	Boron	0.054	mg/L	UB	Blank contamination
	YGWC-24SA	SM2540C	TDS	78.0	mg/L	UB	Blank contamination
	AMA-DUP-1	SM2540C	TDS	71.0	mg/L	UB	Blank contamination
	YGWC-36A	SW846 6020B	Boron	0.040	mg/L	UB	Blank contamination
		SM2540C	TDS	81.0	mg/L	UB	Blank contamination
	YAMW-2	SM2540C	TDS	48.0	mg/L	UB	Blank contamination
	YAMW-2	SW846 6020B	Boron	0.040	mg/L	UB	Blank contamination
	PZ-52D	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination

Abbreviations:

Qualifiers:

mg/L = milligrams per liter

UB = not detected due to blank contamination





April 11, 2022

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

RE: Project: YATES AMA-R6

Pace Project No.: 92587090

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between February 09, 2022 and February 14, 2022. 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,

Micole D'oles

Nicole D'Oleo nicole.d'oleo@pacelabs.com (704)875-9092 Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Becky Steever, Arcadis
Albert Zumbuhl, Arcadis





#### **CERTIFICATIONS**

Project: YATES AMA-R6 Pace Project No.: 92587090

**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 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



### **SAMPLE SUMMARY**

Project: YATES AMA-R6
Pace Project No.: 92587090

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92587090001	YGWC-49	Water	02/08/22 18:00	02/09/22 10:18
92587090002	YGWC-41	Water	02/08/22 16:20	02/09/22 10:18
92587090003	AMA-DUP-2	Water	02/08/22 00:00	02/09/22 10:18
92587090004	YGWC-43	Water	02/08/22 10:20	02/09/22 10:18
92587090005	AMA-EB-1	Water	02/08/22 18:36	02/09/22 10:18
92587090006	YAMW-5	Water	02/10/22 11:30	02/11/22 16:45
92587090007	PZ-37	Water	02/10/22 13:05	02/11/22 16:45
92587090008	AMA-DUP-4	Water	02/10/22 00:00	02/11/22 16:45
92587090009	PZ-51	Water	02/10/22 18:10	02/11/22 16:45
92587090010	YAMW-1	Water	02/10/22 11:55	02/11/22 16:45
92587090011	PZ-35	Water	02/10/22 14:37	02/11/22 16:45
92587090012	YAMW-4	Water	02/10/22 12:00	02/11/22 16:45
92587090013	YGWC-23S	Water	02/10/22 15:10	02/11/22 16:45
92587090014	YGWC-38	Water	02/10/22 09:50	02/11/22 16:45
92587090015	YGWC-42	Water	02/10/22 16:35	02/11/22 16:45
92587090016	YGWC-24SA	Water	02/10/22 14:40	02/11/22 16:45
92587090017	AMA-DUP-1	Water	02/10/22 00:00	02/11/22 16:45
92587090018	YGWC-36A	Water	02/11/22 11:19	02/11/22 16:45
92587090019	YAMW-2	Water	02/10/22 09:45	02/11/22 16:45
92587090020	YAMW-3	Water	02/10/22 15:35	02/11/22 16:45
92587090021	AMA-EB-2	Water	02/10/22 12:46	02/11/22 16:45
92587090022	AMA-FB-1	Water	02/10/22 15:02	02/11/22 16:45
92587090023	AMA-FB-2	Water	02/10/22 16:00	02/11/22 16:45
92587090024	PZ-37D	Water	02/11/22 16:35	02/14/22 13:25
92587090025	PZ-52D	Water	02/11/22 14:00	02/14/22 13:25



Project: YATES AMA-R6
Pace Project No.: 92587090

92587090001 YGWC-49	Lab ID	Sample ID	Method	Analysts	Analytes Reported
Page	92587090001	YGWC-49	EPA 6010D	— ——— KH	1
SM 2540C-2015   ALW   1   1   1   1   1   1   1   1   1			EPA 6020B	CW1	13
P2587090002			EPA 7470A	VB	1
92587090002         YGWC-41         EPA 6010D         KH         1           EPA 6020B         CW1         13           EPA 7470A         VB         1           SM 2540C-2015         ALW         1           SM 2540C-2015         ALW         3           PSA 900008 PW 2.1 1993         JCM         3           92587090003         AMA-DUP-2         EPA 6010D         KH         1           EPA 540C-2015         ALW         1         1           EPA 300.0 Rev 2.1 1993         JCM         3           92587090004         YGWC-43         EPA 6010D         KH         1           EPA 6020B         CW1         13         1           EPA 6020B         CW1         13         1           EPA 6010D         KH         1         1           EPA 6020B         CW1         13         1           EPA 6020B         CW1         13         1           EPA 6010D         KH         1         1           EPA 6020B         CW1         13         1           EPA 6020B         CW1         13         1           EPA 6020B         CW1         13         1			SM 2540C-2015	ALW	1
PA 6020B   CW1   13   EPA 7470A   VB   1   1   1   1   1   1   1   1   1			EPA 300.0 Rev 2.1 1993	JCM	3
Page	92587090002	YGWC-41	EPA 6010D	KH	1
SM 2540C-2015   ALW   1   1   1   1   1   1   1   1   1			EPA 6020B	CW1	13
92587090003			EPA 7470A	VB	1
92587090003       AMA-DUP-2       EPA 6010D       KH       1         EPA 6020B       CW1       13         EPA 7470A       VB       1         SM 2540C-2015       ALW       1         P2587090004       YGWC-43       EPA 300.0 Rev 2.1 1993       JCM       3         P2587090004       YGWC-43       EPA 6020B       CW1       13         EPA 6020B       CW1       13       1         EPA 7470A       VB       1       1         SM 2540C-2015       ALW       1         EPA 6010D       KH       1       1         EPA 6020B       CW1       13         EPA 6020B       CW1       13         EPA 6020B       CW1       13         EPA 6020B       CW1       13         EPA 300.0 Rev 2.1 1993       JCM       3         P2587090006       YAMW-5       EPA 6020B       CW1       13         EPA 300.0 Rev 2.1 1993       JCM       3         P2587090007       P2-37       EPA 6020B       CW1       1         EPA 300.0 Rev 2.1 1993       JCM       3         P2-37       EPA 6020B       CW1       1         EPA 7470A       VB <td></td> <td></td> <td>SM 2540C-2015</td> <td>ALW</td> <td>1</td>			SM 2540C-2015	ALW	1
PAR 6020B   CW1   13   EPA 7470A   VB   1   EPA 7470A   VB   1   SM 2540C-2015   ALW   1   EPA 300.0 Rev 2.1 1993   JCM   3   SM 2587090004   YGWC-43   EPA 6010D   KH   1   EPA 6020B   CW1   13   EPA 7470A   VB   1   EPA 8020B   CW1   13   EPA 6010D   KH   1   EPA 8020B   CW1   13   EPA 7470A   VB   1   EPA 8020B   CW1   13   EPA 7470A   VB   1   EPA 8020B   CW1   13   EPA 7470A   VB   1   EPA 8020B   CW1   13   EPA 8020B   CW1   TW1			EPA 300.0 Rev 2.1 1993	JCM	3
PART	92587090003	AMA-DUP-2	EPA 6010D	KH	1
92587090004 YGWC-43 FGWC-43 FEPA 6010D KH 1 EPA 300.0 Rev 2.1 1993 JCM 3 EPA 6020B CW1 13 EPA 7470A VB 1 EPA 300.0 Rev 2.1 1993 JCM 3  92587090005 AMA-EB-1 FEPA 6010D KH 1 EPA 6020B CW1 3 EPA 300.0 Rev 2.1 1993 JCM 3 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 VB 1 EPA 300.0 Rev 2.1 1993 JCM 3  92587090006 YAMW-5 EPA 6010D KH 1 EPA 6020B CW1 13 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A VB 1 EPA 300.0 Rev 2.1 1993 JCM 3  92587090007 PZ-37 EPA 6010D KH 1 EPA 300.0 Rev 2.1 1993 JCM 13 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A VB 1 EPA 6020B CW1 13 EPA 7470A VB 1 EPA 747			EPA 6020B	CW1	13
92587090004 YGWC-43			EPA 7470A	VB	1
92587090004       YGWC-43       EPA 6010D       KH       1         EPA 6020B       CW1       13         EPA 7470A       VB       1         SM 2540C-2015       ALW       1         EPA 300.0 Rev 2.1 1993       JCM       3         92587090005       AMA-EB-1       EPA 6010D       KH       1         EPA 6020B       CW1       13         EPA 7470A       VB       1         SM 2540C-2015       ALW       1         EPA 300.0 Rev 2.1 1993       JCM       3         PS EPA 6020B       CW1       13         EPA 6020B       CW1       13         EPA 6020B       CW1       13         EPA 7470A       VB       1         SM 2540C-2015       ALW       1         EPA 300.0 Rev 2.1 1993       JCM       3         92587090007       PZ-37       EPA 6010D       KH       1         EPA 7470A       VB       1         EPA 7470A       VB       1         EPA 6020B       CW1       13         EPA 7470A       VB       1         EPA 7470A       VB       1         EPA 7470A       VB       1 </td <td></td> <td></td> <td>SM 2540C-2015</td> <td>ALW</td> <td>1</td>			SM 2540C-2015	ALW	1
Page			EPA 300.0 Rev 2.1 1993	JCM	3
PEPA 7470A   VB   1   SM 2540C-2015   ALW   1   SM 2540C-2015   ALW   1   SM 2540C-2015   ALW   1   SM 2540C-2015   ALW   3   SM 2540C-2015   ALW   1   ALW	92587090004	YGWC-43	EPA 6010D	KH	1
SM 2540C-2015   ALW   1			EPA 6020B	CW1	13
EPA 300.0 Rev 2.1 1993       JCM       3         92587090005       AMA-EB-1       EPA 6010D       KH       1         EPA 6020B       CW1       13         EPA 7470A       VB       1         SM 2540C-2015       ALW       1         EPA 300.0 Rev 2.1 1993       JCM       3         9258709006       YAMW-5       EPA 6010D       KH       1         EPA 6020B       CW1       13         EPA 7470A       VB       1         SM 2540C-2015       ALW       1         EPA 300.0 Rev 2.1 1993       JCM       3         92587090007       PZ-37       EPA 6010D       KH       1         EPA 7470A       VB       1         EPA 6020B       CW1       13         EPA 6020B       CW1       13         EPA 6020B       CW1       13         EPA 6020B       CW1       13         EPA 7470A       VB       1			EPA 7470A	VB	1
92587090005       AMA-EB-1       EPA 6010D       KH       1         EPA 6020B       CW1       13         EPA 7470A       VB       1         SM 2540C-2015       ALW       1         EPA 300.0 Rev 2.1 1993       JCM       3         P258709006       YAMW-5       EPA 6010D       KH       1         EPA 7470A       VB       1         EPA 300.0 Rev 2.1 1993       JCM       3         P258709007       P2-37       EPA 6010D       KH       1         EPA 6020B       CW1       13         EPA 6020B       CW1       3         EPA 6020B       CW1       13         EPA 7470A       VB       1         EPA 7470A       VB       1         EPA 7470A       VB       1         EPA 300.0 Rev 2.1 1993       JCM       3         EPA 7470A       VB       1         EPA 7470A       VB       1         EPA 7470A       VB       1			SM 2540C-2015	ALW	1
PZ-37   PZ-3			EPA 300.0 Rev 2.1 1993	JCM	3
P2587090006 YAMW-5  EPA 7470A  SM 2540C-2015  ALW  1  EPA 300.0 Rev 2.1 1993  JCM  3  EPA 6010D  KH  1  EPA 6020B  CW1  13  EPA 7470A  VB  1  EPA 6020B  CW1  13  EPA 7470A  VB  1  EPA 7470A  VB  1  EPA 6020B  CW1  13  EPA 7470A  VB  1  EPA 7470A  VB  1  EPA 6010D  KH  1  EPA 7470A  VB  1  EPA 6020B  CW1  1  EPA 300.0 Rev 2.1 1993  JCM  3  EPA 6010D  KH  1  EPA 6020B  CW1  13  EPA 7470A  VB  1  EPA 6020B  CW1  13  EPA 7470A  VB  1  EPA 6020B  KH  I  EPA 6020B  KH  I  EPA 6020B  KH  I  EPA 6020B  KH  I  EPA 6020B	92587090005	AMA-EB-1	EPA 6010D	KH	1
SM 2540C-2015   ALW   1			EPA 6020B	CW1	13
EPA 300.0 Rev 2.1 1993       JCM       3         92587090006       YAMW-5       EPA 6010D       KH       1         EPA 6020B       CW1       13         EPA 7470A       VB       1         SM 2540C-2015       ALW       1         EPA 300.0 Rev 2.1 1993       JCM       3         92587090007       PZ-37       EPA 6010D       KH       1         EPA 6020B       CW1       13         EPA 7470A       VB       1         SM 2540C-2015       ALW       1         SM 2540C-2015       ALW       1         EPA 300.0 Rev 2.1 1993       JCM       3         92587090008       AMA-DUP-4       EPA 6010D       KH       1			EPA 7470A	VB	1
92587090006       YAMW-5       EPA 6010D       KH       1         EPA 6020B       CW1       13         EPA 7470A       VB       1         SM 2540C-2015       ALW       1         EPA 300.0 Rev 2.1 1993       JCM       3         PZ-37       EPA 6010D       KH       1         EPA 6020B       CW1       13         EPA 7470A       VB       1         SM 2540C-2015       ALW       1         SM 2540C-2015       ALW       1         EPA 300.0 Rev 2.1 1993       JCM       3         92587090008       AMA-DUP-4       EPA 6010D       KH       1			SM 2540C-2015	ALW	1
PZ-37			EPA 300.0 Rev 2.1 1993	JCM	3
PZ-37	92587090006	YAMW-5	EPA 6010D	KH	1
92587090007 PZ-37			EPA 6020B	CW1	13
PZ-37			EPA 7470A	VB	1
92587090007       PZ-37       EPA 6010D       KH       1         EPA 6020B       CW1       13         EPA 7470A       VB       1         SM 2540C-2015       ALW       1         EPA 300.0 Rev 2.1 1993       JCM       3         92587090008       AMA-DUP-4       EPA 6010D       KH       1			SM 2540C-2015	ALW	1
EPA 6020B CW1 13 EPA 7470A VB 1 SM 2540C-2015 ALW 1 EPA 300.0 Rev 2.1 1993 JCM 3 9258709008 AMA-DUP-4 EPA 6010D KH 1			EPA 300.0 Rev 2.1 1993	JCM	3
EPA 7470A VB 1 SM 2540C-2015 ALW 1 EPA 300.0 Rev 2.1 1993 JCM 3 92587090008 AMA-DUP-4 EPA 6010D KH 1	92587090007	PZ-37	EPA 6010D	KH	1
\$M 2540C-2015 ALW 1 EPA 300.0 Rev 2.1 1993 JCM 3 92587090008 AMA-DUP-4 EPA 6010D KH 1			EPA 6020B	CW1	13
EPA 300.0 Rev 2.1 1993 JCM 3 92587090008 AMA-DUP-4 EPA 6010D KH 1			EPA 7470A	VB	1
<b>92587090008 AMA-DUP-4</b> EPA 6010D KH 1			SM 2540C-2015	ALW	1
			EPA 300.0 Rev 2.1 1993	JCM	3
EPA 6020B CW1 13	92587090008	AMA-DUP-4	EPA 6010D	KH	1
			EPA 6020B	CW1	13

### **REPORT OF LABORATORY ANALYSIS**



Project: YATES AMA-R6
Pace Project No.: 92587090

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A		1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587090009	PZ-51	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587090010	YAMW-1	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587090011	PZ-35	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587090012	YAMW-4	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587090013	YGWC-23S	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587090014	YGWC-38	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587090015	YGWC-42	EPA 6010D	KH	1
		EPA 6020B	CW1, KH	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1

### **REPORT OF LABORATORY ANALYSIS**



Project: YATES AMA-R6
Pace Project No.: 92587090

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 300.0 Rev 2.1 1993		3
92587090016	YGWC-24SA	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587090017	AMA-DUP-1	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587090018	YGWC-36A	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587090019	YAMW-2	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587090020	YAMW-3	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587090021	AMA-EB-2	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587090022	AMA-FB-1	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587090023	AMA-FB-2	EPA 6010D	KH	1

## **REPORT OF LABORATORY ANALYSIS**



Project: YATES AMA-R6
Pace Project No.: 92587090

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587090024	PZ-37D	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587090025	PZ-52D	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		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



## **SUMMARY OF DETECTION**

Project: YATES AMA-R6
Pace Project No.: 92587090

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
2587090001	YGWC-49					
	Performed by	CUSTOME			02/09/22 12:32	
	рН	R 5.79	Std. Units		02/09/22 12:32	
EPA 6010D	Calcium	12.7	mg/L	1.0	02/24/22 22:25	
EPA 6020B	Barium	0.070	mg/L	0.0050	02/25/22 15:29	
EPA 6020B	Beryllium	0.00015J	mg/L	0.00050	02/25/22 15:29	
EPA 6020B	Chromium	0.0021J	mg/L	0.0050	02/25/22 15:29	
PA 6020B	Lithium	0.0036J	mg/L	0.030	02/25/22 15:29	
PA 6020B	Selenium	0.0075	mg/L	0.0050	02/25/22 15:29	
SM 2540C-2015	Total Dissolved Solids	164	mg/L	10.0	02/14/22 15:19	
PA 300.0 Rev 2.1 1993	Chloride	4.2	mg/L	1.0	02/15/22 07:19	
PA 300.0 Rev 2.1 1993	Sulfate	73.9	mg/L	1.0	02/15/22 07:19	
2587090002	YGWC-41					
	Performed by	CUSTOME R			02/09/22 12:32	
	рН	5.07	Std. Units		02/09/22 12:32	
PA 6010D	Calcium	15.0	mg/L	1.0	02/24/22 22:29	
PA 6020B	Arsenic	0.0021J	mg/L	0.0050	02/25/22 15:35	
PA 6020B	Barium	0.021	mg/L	0.0050	02/25/22 15:35	
PA 6020B	Beryllium	0.0016	mg/L	0.00050		
PA 6020B	Boron	4.0	mg/L	0.040	02/25/22 15:35	
PA 6020B	Cadmium	0.00012J	mg/L	0.00050		
PA 6020B	Lithium	0.0023J	mg/L	0.030		
PA 6020B	Selenium	0.031	mg/L	0.0050		
M 2540C-2015	Total Dissolved Solids	226	mg/L	10.0	02/14/22 15:19	
PA 300.0 Rev 2.1 1993	Chloride	3.5	mg/L	1.0	02/15/22 07:33	
PA 300.0 Rev 2.1 1993	Sulfate	109	mg/L		02/15/22 17:05	
2587090003	AMA-DUP-2					
PA 6010D	Calcium	14.6	mg/L	1.0	02/24/22 22:34	M1
PA 6020B	Antimony	0.0018J	mg/L	0.0030	02/25/22 15:59	
PA 6020B	Arsenic	0.0027J	mg/L	0.0050	02/25/22 15:59	
PA 6020B	Barium	0.021	mg/L	0.0050	02/25/22 15:59	
PA 6020B	Beryllium	0.0017	mg/L	0.00050	02/25/22 15:59	
PA 6020B	Boron	4.1	mg/L	0.040	02/25/22 15:59	
PA 6020B	Cadmium	0.00012J	mg/L	0.00050	02/25/22 15:59	
PA 6020B	Lithium	0.0024J	mg/L	0.030	02/25/22 15:59	
PA 6020B	Selenium	0.032	mg/L	0.0050	02/25/22 15:59	
M 2540C-2015	Total Dissolved Solids	235	mg/L	10.0	02/14/22 15:19	
PA 300.0 Rev 2.1 1993	Chloride	3.5	mg/L	1.0	02/15/22 07:47	
PA 300.0 Rev 2.1 1993	Sulfate	107	mg/L	3.0	02/15/22 17:20	
2587090004	YGWC-43					
	Performed by	CUSTOME R			02/09/22 12:32	
	рН	5.82	Std. Units		02/09/22 12:32	
PA 6010D	Calcium	9.9	mg/L	1.0	02/24/22 23:03	
PA 6020B	Arsenic	0.0022J	mg/L	0.0050	02/25/22 16:05	

### **REPORT OF LABORATORY ANALYSIS**



## **SUMMARY OF DETECTION**

Project: YATES AMA-R6
Pace Project No.: 92587090

₋ab Sample ID	Client Sample ID							
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifier		
2587090004	YGWC-43							
EPA 6020B	Barium	0.029	mg/L	0.0050	02/25/22 16:05			
EPA 6020B	Beryllium	0.00037J	mg/L	0.00050	02/25/22 16:05			
PA 6020B	Boron	2.3	mg/L	0.040	02/25/22 16:05			
PA 6020B	Cobalt	0.00045J	mg/L	0.0050	02/25/22 16:05			
PA 6020B	Lithium	0.016J	mg/L	0.030	02/25/22 16:05			
PA 6020B	Molybdenum	0.0020J	mg/L	0.010	02/25/22 16:05			
SM 2540C-2015	Total Dissolved Solids	294	mg/L	10.0	02/14/22 15:19			
PA 300.0 Rev 2.1 1993	Chloride	2.1	mg/L	1.0	02/15/22 08:01			
PA 300.0 Rev 2.1 1993	Fluoride	0.066J	mg/L	0.10	02/15/22 08:01			
PA 300.0 Rev 2.1 1993	Sulfate	133	mg/L	3.0	02/15/22 17:34			
2587090005	AMA-EB-1							
EPA 6020B	Boron	0.023J	mg/L	0.040	02/25/22 16:11			
SM 2540C-2015	Total Dissolved Solids	12.0	mg/L	10.0	02/14/22 15:20			
92587090006	YAMW-5							
	Performed by	CUSTOME R			02/14/22 12:24			
	рН	5.22	Std. Units		02/14/22 12:24			
PA 6010D	Calcium	40.8	mg/L	1.0	02/24/22 23:13			
PA 6020B	Arsenic	0.0024J	mg/L	0.0050	02/25/22 16:29			
PA 6020B	Barium	0.034	mg/L	0.0050	02/25/22 16:29			
PA 6020B	Beryllium	0.00013J	mg/L	0.00050	02/25/22 16:29			
PA 6020B	Boron	4.9	mg/L	0.040	02/25/22 16:29			
PA 6020B	Cadmium	0.00022J	mg/L	0.00050	02/25/22 16:29			
PA 6020B	Chromium	0.0016J	mg/L	0.0050	02/25/22 16:29			
PA 6020B	Lithium	0.015J	mg/L	0.030	02/25/22 16:29			
PA 6020B	Selenium	0.057	mg/L	0.0050	02/25/22 16:29			
SM 2540C-2015	Total Dissolved Solids	499	mg/L	10.0	02/17/22 16:07			
EPA 300.0 Rev 2.1 1993	Chloride	3.9	mg/L	1.0	02/19/22 16:35			
PA 300.0 Rev 2.1 1993	Sulfate	276	mg/L	6.0	02/21/22 00:42			
92587090007	PZ-37		-					
	Performed by	CUSTOME R			02/14/22 12:25			
	рН	4.93	Std. Units		02/14/22 12:25			
PA 6010D	Calcium	106	mg/L	1.0	02/24/22 23:18			
PA 6020B	Arsenic	0.0017J	mg/L	0.0050	02/25/22 16:35			
PA 6020B	Barium	0.029	mg/L	0.0050	02/25/22 16:35			
PA 6020B	Beryllium	0.0010	mg/L	0.00050	02/25/22 16:35			
PA 6020B	Boron	9.5	mg/L	0.040	02/25/22 16:35			
PA 6020B	Cadmium	0.00093	mg/L	0.00050	02/25/22 16:35			
PA 6020B	Cobalt	0.0036J	mg/L	0.0050	02/25/22 16:35			
PA 6020B	Lithium	0.017J	mg/L	0.030	02/25/22 16:35			
PA 6020B	Selenium	0.20	mg/L	0.0050	02/25/22 16:35			
M 2540C-2015	Total Dissolved Solids	798	mg/L	20.0	02/17/22 16:08			
PA 300.0 Rev 2.1 1993	Chloride	4.2	mg/L	1.0	02/17/22 10:08			
		7.2	mq/L	1.0	UZ/ 1U/ZZ 1U.40			



## **SUMMARY OF DETECTION**

Project: YATES AMA-R6
Pace Project No.: 92587090

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
2587090008	AMA-DUP-4					
EPA 6010D	Calcium	107	mg/L	1.0	02/24/22 23:22	
EPA 6020B	Arsenic	0.0018J	mg/L	0.0050	02/25/22 16:41	
EPA 6020B	Barium	0.029	mg/L	0.0050	02/25/22 16:41	
EPA 6020B	Beryllium	0.0011	mg/L	0.00050	02/25/22 16:41	
EPA 6020B	Boron	9.6	mg/L	0.040	02/25/22 16:41	
EPA 6020B	Cadmium	0.00089	mg/L	0.00050	02/25/22 16:41	
EPA 6020B	Cobalt	0.0041J	mg/L	0.0050	02/25/22 16:41	
EPA 6020B	Lithium	0.017J	mg/L	0.030	02/25/22 16:41	
EPA 6020B	Selenium	0.20	mg/L	0.0050	02/25/22 16:41	
SM 2540C-2015	Total Dissolved Solids	772	mg/L	20.0		
EPA 300.0 Rev 2.1 1993	Chloride	4.2	mg/L	1.0	02/19/22 17:29	
EPA 300.0 Rev 2.1 1993	Sulfate	475	mg/L	10.0	02/21/22 01:36	
92587090009	PZ-51		Ü			
	Performed by	CUSTOME			02/14/22 12:25	
	рН	R 4.46	Std. Units		02/14/22 12:25	
EPA 6010D	Calcium	54.7	mg/L	1.0		
EPA 6020B	Arsenic	0.0013J	mg/L	0.0050	02/25/22 16:47	
	Barium	0.00133	•		02/25/22 16:47	
EPA 6020B EPA 6020B		0.0033	mg/L	0.0050 0.00050	02/25/22 16:47	
EPA 6020B	Beryllium Boron		mg/L	0.00030	02/25/22 16:47	
		6.8	mg/L			
EPA 6020B	Cadmium	0.0019	mg/L	0.00050	02/25/22 16:47	
EPA 6020B	Cobalt	0.033	mg/L	0.0050	02/25/22 16:47	
EPA 6020B	Lithium	0.0060J	mg/L	0.030	02/25/22 16:47	
EPA 6020B	Selenium	0.029	mg/L	0.0050	02/25/22 16:47	
SM 2540C-2015	Total Dissolved Solids	574	mg/L	20.0		
EPA 300.0 Rev 2.1 1993	Chloride	4.2	mg/L	1.0	02/19/22 17:42	
EPA 300.0 Rev 2.1 1993	Fluoride	0.10	mg/L		02/19/22 17:42	
EPA 300.0 Rev 2.1 1993	Sulfate	306	mg/L	7.0	02/21/22 01:49	
92587090010	YAMW-1 Performed by	CUSTOME			02/14/22 12:25	
	r channed by	R			02/14/22 12.20	
	рН	5.80	Std. Units		02/14/22 12:25	
EPA 6010D	Calcium	21.5	mg/L	1.0	02/24/22 23:32	
EPA 6020B	Arsenic	0.0023J	mg/L	0.0050	02/25/22 16:53	
EPA 6020B	Barium	0.084	mg/L	0.0050	02/25/22 16:53	
EPA 6020B	Beryllium	0.00016J	mg/L	0.00050	02/25/22 16:53	
EPA 6020B	Boron	0.36	mg/L	0.040	02/25/22 16:53	
EPA 6020B	Cadmium	0.00018J	mg/L	0.00050	02/25/22 16:53	
EPA 6020B	Chromium	0.0013J	mg/L	0.0050	02/25/22 16:53	
EPA 6020B	Cobalt	0.011	mg/L	0.0050	02/25/22 16:53	
EPA 6020B	Lithium	0.014J	mg/L	0.030	02/25/22 16:53	
EPA 6020B	Molybdenum	0.00089J	mg/L	0.010	02/25/22 16:53	
EPA 6020B	Selenium	0.0034J	mg/L	0.0050	02/25/22 16:53	
SM 2540C-2015	Total Dissolved Solids	281	mg/L	10.0	02/17/22 17:01	
EPA 300.0 Rev 2.1 1993	Chloride	5.3	mg/L	1.0	02/19/22 17:55	
EPA 300.0 Rev 2.1 1993	Sulfate	120	mg/L	0.0	02/21/22 02:04	

### **REPORT OF LABORATORY ANALYSIS**



Project: YATES AMA-R6
Pace Project No.: 92587090

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifier
2587090011	PZ-35					
	Performed by	CUSTOME			02/14/22 12:25	
	рН	R 5.35	Std. Units		02/14/22 12:25	
EPA 6010D	Calcium	8.8	mg/L	1.0	02/24/22 23:46	
EPA 6020B	Arsenic	0.0018J	mg/L	0.0050	02/25/22 16:59	
EPA 6020B	Barium	0.074	mg/L	0.0050	02/25/22 16:59	
EPA 6020B	Beryllium	0.00055	mg/L	0.00050	02/25/22 16:59	
EPA 6020B	Boron	0.054	mg/L	0.040	02/25/22 16:59	
EPA 6020B	Lithium	0.0021J	mg/L	0.030	02/25/22 16:59	
PA 6020B	Selenium	0.0030J	mg/L	0.0050	02/25/22 16:59	
SM 2540C-2015	Total Dissolved Solids	130	mg/L	10.0	02/17/22 17:01	
EPA 300.0 Rev 2.1 1993	Chloride	5.6	mg/L	1.0	02/19/22 18:36	
EPA 300.0 Rev 2.1 1993	Sulfate	42.6	mg/L	1.0	02/19/22 18:36	
2587090012	YAMW-4		J			
	Performed by	CUSTOME			02/14/22 12:25	
	pH	R 6.10	Std. Units		02/14/22 12:25	
EPA 6010D	Calcium	11.6	mg/L	1.0		
EPA 6020B	Arsenic	0.0026J	mg/L	0.0050	02/25/22 17:05	
PA 6020B	Barium	0.0033J	mg/L	0.0050	02/25/22 17:05	
PA 6020B	Boron	3.0	mg/L	0.040	02/25/22 17:05	
PA 6020B	Cobalt	0.00044J	•	0.0050	02/25/22 17:05	
	Lithium	0.000443	mg/L		02/25/22 17:05	
PA 6020B			mg/L	0.030		
PA 6020B	Molybdenum Selenium	0.0076J	mg/L	0.010	02/25/22 17:05	
PA 6020B		0.019	mg/L	0.0050	02/25/22 17:05	
SM 2540C-2015	Total Dissolved Solids	346	mg/L	10.0	02/17/22 17:01	
EPA 300.0 Rev 2.1 1993	Chloride	1.4	mg/L	1.0	02/19/22 18:49	
PA 300.0 Rev 2.1 1993	Sulfate	160	mg/L	4.0	02/21/22 02:18	
2587090013	YGWC-23S	CUSTOME			00/44/00 40 00	
	Performed by	CUSTOME R			02/14/22 12:26	
	pН	5.51	Std. Units		02/14/22 12:26	
PA 6010D	Calcium	11.8	mg/L	1.0	02/24/22 23:56	
PA 6020B	Arsenic	0.0025J	mg/L	0.0050	02/25/22 17:11	
PA 6020B	Barium	0.058	mg/L	0.0050	02/25/22 17:11	
PA 6020B	Beryllium	0.00023J	mg/L	0.00050	02/25/22 17:11	
PA 6020B	Boron	1.5	mg/L		02/25/22 17:11	
PA 6020B	Lithium	0.0029J	mg/L	0.030	02/25/22 17:11	
PA 6020B	Selenium	0.039	mg/L		02/25/22 17:11	
M 2540C-2015	Total Dissolved Solids	180	mg/L		02/17/22 17:01	
PA 300.0 Rev 2.1 1993	Chloride	1.9	mg/L		02/19/22 19:03	
PA 300.0 Rev 2.1 1993	Sulfate	78.7	mg/L		02/19/22 19:03	
2587090014	YGWC-38		-			
	Performed by	CUSTOME			02/14/22 12:26	
		R 4.85	Std. Units		02/14/22 12:26	
	рH	4 ጸን	SIO. LINUS		()//14/// 17·7h	

## **REPORT OF LABORATORY ANALYSIS**



Project: YATES AMA-R6
Pace Project No.: 92587090

Client Sample ID					
Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
YGWC-38					
Arsenic	0.0017J	mg/L	0.0050	02/25/22 17:17	
Barium	0.016	mg/L	0.0050	02/25/22 17:17	
Beryllium	0.0027	mg/L	0.00050	02/25/22 17:17	
Boron	5.4	mg/L	0.040	02/25/22 17:17	
Cadmium	0.0011	mg/L	0.00050	02/25/22 17:17	
Lithium	0.0068J	mg/L	0.030	02/25/22 17:17	
Selenium	0.064	mg/L	0.0050	02/25/22 17:17	
Total Dissolved Solids	541	mg/L	10.0	02/17/22 17:01	
Chloride	4.0	mg/L	1.0	02/19/22 19:16	
Sulfate	290	mg/L	6.0	02/21/22 02:59	
YGWC-42					
Performed by	CUSTOME R			02/14/22 12:26	
рН	5.57	Std. Units		02/14/22 12:26	
Calcium	74.4	mg/L	1.0	02/25/22 00:06	
Arsenic		•	0.0050		
Barium		•	0.0050		
Beryllium	0.000061J	mg/L	0.00050	02/25/22 17:23	
Boron	14.4	mg/L	2.0	02/28/22 16:43	
Cobalt	0.0017J	mg/L	0.0050		
Lithium		mg/L			
Molybdenum	0.00080J	mg/L	0.010		
Selenium	0.044	mg/L	0.0050	02/25/22 17:23	
Total Dissolved Solids	882	mg/L	20.0	02/17/22 17:01	
Chloride	3.3	mg/L	1.0	02/19/22 19:30	
Sulfate	485	mg/L	11.0	02/21/22 03:12	
YGWC-24SA					
Performed by				02/14/22 12:26	
рН	4.66	Std. Units		02/14/22 12:26	
Calcium	2.2	mg/L	1.0	02/25/22 00:11	
Arsenic	0.0024J	mg/L	0.0050	02/25/22 18:27	
Barium	0.026	mg/L	0.0050	02/25/22 18:27	
Beryllium	0.00016J	mg/L	0.00050	02/25/22 18:27	
Total Dissolved Solids	78.0	mg/L	10.0	02/17/22 17:01	
Chloride	8.7	mg/L			
AMA-DUP-1					
Calcium	2.2	mg/L	1.0	02/25/22 00:16	
Arsenic	0.0019J	mg/L	0.0050	02/25/22 18:33	
Barium	0.027	mg/L	0.0050	02/25/22 18:33	
Beryllium	0.00017J	mg/L	0.00050	02/25/22 18:33	
Total Dissolved Solids	71.0	mg/L	10.0	02/17/22 17:01	
Chloride	8.7	mg/L	1.0		M1
YGWC-36A					
Performed by	CUSTOME			02/14/22 12:27	
-	R				
	Parameters  YGWC-38  Arsenic  Barium  Beryllium  Boron  Cadmium  Lithium  Selenium  Total Dissolved Solids  Chloride  Sulfate  YGWC-42  Performed by  PH  Calcium  Arsenic  Barium  Beryllium  Boron  Cobalt  Lithium  Molybdenum  Selenium  Total Dissolved Solids  Chloride  Sulfate  YGWC-24SA  Performed by  PH  Calcium  Arsenic  Barium  Beryllium  Total Dissolved Solids  Chloride  Sulfate  YGWC-24SA  Performed by  PH  Calcium  Arsenic  Barium  Beryllium  Total Dissolved Solids  Chloride  AMA-DUP-1  Calcium  Arsenic  Barium  Beryllium  Total Dissolved Solids  Chloride  AMA-DUP-1  Calcium  Arsenic  Barium  Beryllium  Total Dissolved Solids  Chloride	Parameters         Result           YGWC-38         .0.0017J           Arsenic         0.0016           Beryllium         0.0027           Boron         5.4           Cadmium         0.0011           Lithium         0.068J           Selenium         0.064           Total Dissolved Solids         541           Chloride         4.0           Sulfate         290           YGWC-42         Performed by         CUSTOME           R         R           PH         5.57           Calcium         74.4           Arsenic         0.0026J           Beryllium         0.00061J           Boron         14.4           Cobalt         0.0017J           Lithium         0.052           Molybdenum         0.00080J           Selenium         0.004           Total Dissolved Solids         882           Chloride         3.3           Sulfate         485           YGWC-24SA         Performed by         CUSTOME           R         PH         4.66           Calcium         2.2           Arsenic         0.0024 <td>YGWC-38         Result         Units           Arsenic         0.0017J         mg/L           Barium         0.016         mg/L           Beryllium         0.0027         mg/L           Boron         5.4         mg/L           Cadmium         0.0011         mg/L           Lithium         0.0068J         mg/L           Selenium         0.064         mg/L           Total Dissolved Solids         541         mg/L           Chloride         4.0         mg/L           Sulfate         290         mg/L           Performed by         CUSTOME         R           PH         5.57         Std. Units           Calcium         74.4         mg/L           Arsenic         0.0026J         mg/L           Barium         0.0026         mg/L           Beryllium         0.000061J         mg/L           Boron         14.4         mg/L           Cobalt         0.0017J         mg/L           Lithium         0.052         mg/L           Molybdenum         0.00080J         mg/L           Selenium         0.044         mg/L           Total Dissolved Solids</td> <td>Parameters         Result         Units         Report Limit           YGWC-38           Arsenic         0.0017J         mg/L         0.0050           Barium         0.0027         mg/L         0.0050           Beryllium         0.0027         mg/L         0.00050           Boron         5.4         mg/L         0.0050           Boron         0.061         mg/L         0.0050           Lithium         0.0068J         mg/L         0.030           Selenium         0.064         mg/L         0.0050           Total Dissolved Solids         541         mg/L         10.0           Chloride         4.0         mg/L         10.0           Sulfate         290         mg/L         10.0           YGWC-42         Performed by         CUSTOME         R           pH         5.57         Std. Units         10.0           Calcium         74.4         mg/L         1.0           Arsenic         0.0026J         mg/L         0.0050           Beryllium         0.00061J         mg/L         0.0050           Beryllium         0.00061J         mg/L         0.0050           Molybdenum         0.</td> <td>Parameters         Result         Units         Report Limit         Analyzed           YGWC-38           Arsenic         0.0017J         mg/L         0.0050         02/25/22 17:17           Beryllium         0.006         mg/L         0.0050         02/25/22 17:17           Beron         5.4         mg/L         0.0060         02/25/22 17:17           Lithium         0.0068J         mg/L         0.0030         02/25/22 17:17           Lithium         0.0068J         mg/L         0.0030         02/25/22 17:17           Selenium         0.064         mg/L         0.0050         02/25/22 17:17           Selenium         0.064         mg/L         0.0050         02/25/22 17:17           Total Dissolved Solids         541         mg/L         1.00         02/17/22 17:01           Chloride         4.0         mg/L         1.0         02/21/22 17:03           Sulfate         290         mg/L         6.0         02/21/22 17:03           Performed by         CUSTOME         R         02/14/22 12:26           Arsenic         0.0026         mg/L         1.0         02/25/22 17:23           Barium         0.0026         mg/L         0.0050         02/25/2</td>	YGWC-38         Result         Units           Arsenic         0.0017J         mg/L           Barium         0.016         mg/L           Beryllium         0.0027         mg/L           Boron         5.4         mg/L           Cadmium         0.0011         mg/L           Lithium         0.0068J         mg/L           Selenium         0.064         mg/L           Total Dissolved Solids         541         mg/L           Chloride         4.0         mg/L           Sulfate         290         mg/L           Performed by         CUSTOME         R           PH         5.57         Std. Units           Calcium         74.4         mg/L           Arsenic         0.0026J         mg/L           Barium         0.0026         mg/L           Beryllium         0.000061J         mg/L           Boron         14.4         mg/L           Cobalt         0.0017J         mg/L           Lithium         0.052         mg/L           Molybdenum         0.00080J         mg/L           Selenium         0.044         mg/L           Total Dissolved Solids	Parameters         Result         Units         Report Limit           YGWC-38           Arsenic         0.0017J         mg/L         0.0050           Barium         0.0027         mg/L         0.0050           Beryllium         0.0027         mg/L         0.00050           Boron         5.4         mg/L         0.0050           Boron         0.061         mg/L         0.0050           Lithium         0.0068J         mg/L         0.030           Selenium         0.064         mg/L         0.0050           Total Dissolved Solids         541         mg/L         10.0           Chloride         4.0         mg/L         10.0           Sulfate         290         mg/L         10.0           YGWC-42         Performed by         CUSTOME         R           pH         5.57         Std. Units         10.0           Calcium         74.4         mg/L         1.0           Arsenic         0.0026J         mg/L         0.0050           Beryllium         0.00061J         mg/L         0.0050           Beryllium         0.00061J         mg/L         0.0050           Molybdenum         0.	Parameters         Result         Units         Report Limit         Analyzed           YGWC-38           Arsenic         0.0017J         mg/L         0.0050         02/25/22 17:17           Beryllium         0.006         mg/L         0.0050         02/25/22 17:17           Beron         5.4         mg/L         0.0060         02/25/22 17:17           Lithium         0.0068J         mg/L         0.0030         02/25/22 17:17           Lithium         0.0068J         mg/L         0.0030         02/25/22 17:17           Selenium         0.064         mg/L         0.0050         02/25/22 17:17           Selenium         0.064         mg/L         0.0050         02/25/22 17:17           Total Dissolved Solids         541         mg/L         1.00         02/17/22 17:01           Chloride         4.0         mg/L         1.0         02/21/22 17:03           Sulfate         290         mg/L         6.0         02/21/22 17:03           Performed by         CUSTOME         R         02/14/22 12:26           Arsenic         0.0026         mg/L         1.0         02/25/22 17:23           Barium         0.0026         mg/L         0.0050         02/25/2

## **REPORT OF LABORATORY ANALYSIS**



Project: YATES AMA-R6
Pace Project No.: 92587090

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifier
2587090018	YGWC-36A					
	рН	5.58	Std. Units		02/14/22 12:27	
EPA 6010D	Calcium	4.6	mg/L	1.0	02/25/22 00:21	
EPA 6020B	Antimony	0.0023J	mg/L	0.0030	02/25/22 18:39	
EPA 6020B	Arsenic	0.0014J	mg/L	0.0050	02/25/22 18:39	
EPA 6020B	Barium	0.044	mg/L	0.0050	02/25/22 18:39	
EPA 6020B	Beryllium	0.00043J	mg/L	0.00050	02/25/22 18:39	
EPA 6020B	Boron	0.019J	mg/L	0.040	02/25/22 18:39	
PA 6020B	Lithium	0.00093J	mg/L	0.030	02/25/22 18:39	
SM 2540C-2015	Total Dissolved Solids	81.0	mg/L	10.0	02/17/22 17:03	
PA 300.0 Rev 2.1 1993	Chloride	6.6	mg/L	1.0	02/21/22 20:59	
PA 300.0 Rev 2.1 1993	Sulfate	16.4	mg/L	1.0	02/21/22 20:59	
2587090019	YAMW-2		J			
	Performed by	CUSTOME			02/14/22 12:27	
		R				
	рН	5.64	Std. Units		02/14/22 12:27	
EPA 6010D	Calcium	1.3	mg/L		02/25/22 00:26	
EPA 6020B	Barium	0.0074	mg/L	0.0050	02/25/22 18:45	
PA 6020B	Beryllium	0.000074J	mg/L	0.00050	02/25/22 18:45	
PA 6020B	Boron	0.022J	mg/L	0.040	02/25/22 18:45	
PA 6020B	Cobalt	0.00052J	mg/L	0.0050	02/25/22 18:45	
SM 2540C-2015	Total Dissolved Solids	48.0	mg/L	10.0	02/17/22 17:02	
PA 300.0 Rev 2.1 1993	Chloride	2.5	mg/L	1.0	02/21/22 21:13	
EPA 300.0 Rev 2.1 1993	Sulfate	7.1	mg/L	1.0	02/21/22 21:13	
2587090020	YAMW-3					
	Performed by	CUSTOME R			02/14/22 12:27	
	рН	5.93	Std. Units		02/14/22 12:27	
EPA 6010D	Calcium	29.4	mg/L	1.0	02/25/22 01:18	
PA 6020B	Arsenic	0.0038J	mg/L	0.0050	02/25/22 18:51	
PA 6020B	Barium	0.038	mg/L	0.0050	02/25/22 18:51	
PA 6020B	Beryllium	0.00078J	mg/L	0.00050	02/25/22 18:51	
PA 6020B	Boron	7.7	mg/L	0.040	02/25/22 18:51	
PA 6020B	Chromium	0.0011J	•	0.0050	02/25/22 18:51	
PA 6020B	Cobalt	0.00113	mg/L	0.0050	02/25/22 18:51	
PA 6020B	Lithium	0.16	mg/L		02/25/22 18:51	
			mg/L			
EPA 6020B	Molybdenum	0.0036J	mg/L		02/25/22 18:51	
SM 2540C-2015	Total Dissolved Solids	606	mg/L		02/17/22 17:02	
EPA 300.0 Rev 2.1 1993	Chloride	3.2	mg/L		02/21/22 21:26 02/22/22 13:12	
EPA 300.0 Rev 2.1 1993	Sulfate	305	mg/L	7.0	02/22/22 13:12	
2587090021 SM 2540C 2015	AMA-EB-2 Total Dissolved Solids	19.0	ma/l	10.0	02/17/22 17:02	
SM 2540C-2015 <b>2587090024</b>	Total Dissolved Solids PZ-37D	19.0	mg/L	10.0	02/17/22 17:02	
2J01U3UU24	Pz-37D Performed by	CUSTOME			02/14/22 15:02	
	. Shormod by	R			VE/ 17/22 10:02	
	рН	7.84	Std. Units		02/14/22 15:02	
PA 6010D	Calcium	49.0	mg/L	4.0	02/25/22 02:44	

# **REPORT OF LABORATORY ANALYSIS**



Project: YATES AMA-R6
Pace Project No.: 92587090

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587090024	PZ-37D					
EPA 6020B	Barium	0.013	mg/L	0.0050	02/24/22 20:06	
EPA 6020B	Boron	0.44	mg/L	0.040	02/24/22 20:06	
EPA 6020B	Lithium	0.0087J	mg/L	0.030	02/24/22 20:06	
EPA 6020B	Molybdenum	0.0037J	mg/L	0.010	02/24/22 20:06	
SM 2540C-2015	Total Dissolved Solids	382	mg/L	10.0	02/18/22 17:46	
EPA 300.0 Rev 2.1 1993	Chloride	12.5	mg/L	1.0	02/22/22 02:10	M1
EPA 300.0 Rev 2.1 1993	Fluoride	0.17	mg/L	0.10	02/22/22 02:10	M1
EPA 300.0 Rev 2.1 1993	Sulfate	115	mg/L	3.0	02/22/22 13:55	
2587090025	PZ-52D					
	Performed by	CUSTOME R			02/14/22 15:02	
	рН	6.40	Std. Units		02/14/22 15:02	
EPA 6010D	Calcium	27.3	mg/L	1.0	02/25/22 02:49	
EPA 6020B	Arsenic	0.0014J	mg/L	0.0050	02/24/22 20:12	В
EPA 6020B	Barium	0.032	mg/L	0.0050	02/24/22 20:12	
EPA 6020B	Beryllium	0.000059J	mg/L	0.00050	02/24/22 20:12	
EPA 6020B	Boron	0.84	mg/L	0.040	02/24/22 20:12	
EPA 6020B	Chromium	0.0011J	mg/L	0.0050	02/24/22 20:12	
EPA 6020B	Cobalt	0.0011J	mg/L	0.0050	02/24/22 20:12	
EPA 6020B	Lead	0.0031	mg/L	0.0010	02/24/22 20:12	
EPA 6020B	Lithium	0.015J	mg/L	0.030	02/24/22 20:12	
EPA 6020B	Molybdenum	0.011	mg/L	0.010	02/24/22 20:12	
EPA 6020B	Selenium	0.0025J	mg/L	0.0050	02/24/22 20:12	
SM 2540C-2015	Total Dissolved Solids	456	mg/L	10.0	02/18/22 17:46	
EPA 300.0 Rev 2.1 1993	Chloride	6.7	mg/L	1.0	02/22/22 02:50	
EPA 300.0 Rev 2.1 1993	Fluoride	0.10	mg/L	0.10	02/22/22 02:50	
EPA 300.0 Rev 2.1 1993	Sulfate	209	mg/L	5.0	02/22/22 20:39	



Project: YATES AMA-R6
Pace Project No.: 92587090

Date: 04/11/2022 12:45 PM

Sample: YGWC-49	Lab ID:	92587090001	Collected	l: 02/08/22	2 18:00	Received: 02/	/09/22 10:18 M	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Anal	ytical Services	- Charlotte						
Performed by	CUSTOME				1		02/09/22 12:32		
рН	R 5.79	Std. Units			1		02/09/22 12:32		
6010D ATL ICP	Analytical	Method: EPA 6	SO10D Prens	aration Met	hod: FF	2Δ 3 <b>010</b> Δ			
OUTOD ATE ICI	•	ytical Services				730107			
Calcium	12.7	mg/L	1.0	0.12	1	02/24/22 09:40	02/24/22 22:25	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	SOZOR Prop	aration Mot	hod: EE	λ 2005Λ			
6020 MET ICFM3	•	ytical Services	•			A 3003A			
Antimony		•				02/24/22 00:25	00/05/00 45:00	7440.26.0	
Antimony Arsenic	ND ND	mg/L	0.0030	0.00078	1 1	02/24/22 09:35	02/25/22 15:29 02/25/22 15:29		
Arsenic Barium	0.070	mg/L	0.0050	0.0011			02/25/22 15:29		
		mg/L	0.0050		1	02/24/22 09:35			
Beryllium	0.00015J	mg/L		0.000054	1	02/24/22 09:35			
Boron	ND	mg/L	0.040	0.0086	1		02/25/22 15:29		
Cadmium	ND	mg/L	0.00050	0.00011	1		02/25/22 15:29		
Chromium	0.0021J	mg/L	0.0050	0.0011	1	02/24/22 09:35			
Cobalt	ND	mg/L	0.0050	0.00039	1	02/24/22 09:35			
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 09:35	02/25/22 15:29		
Lithium	0.0036J	mg/L	0.030	0.00073	1		02/25/22 15:29		
Molybdenum	ND	mg/L	0.010	0.00074	1	02/24/22 09:35	02/25/22 15:29		
Selenium	0.0075	mg/L	0.0050	0.0014	1	02/24/22 09:35	02/25/22 15:29		
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 09:35	02/25/22 15:29	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Prepa	aration Met	hod: EF	'A 7470A			
	Pace Anal	ytical Services	- Peachtree	Corners, C	3A				
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:30	02/16/22 14:23	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	•	ytical Services		Corners, C	ЭΑ				
Total Dissolved Solids	164	mg/L	10.0	10.0	1		02/14/22 15:19		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	1 1993					
TITLE TO THIRDING LO DUYO	•	ytical Services							
Chloride	4.2	mg/L	1.0	0.60	1		02/15/22 07:19	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/15/22 07:19		
Sulfate	73.9	mg/L	1.0	0.50	1		02/15/22 07:19		



## **ANALYTICAL RESULTS**

Project: YATES AMA-R6
Pace Project No.: 92587090

Sample: YGWC-41	Lab ID:	92587090002	Collected	d: 02/08/22	2 16:20	Received: 02/	09/22 10:18 M	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	CUSTOME R				1		02/09/22 12:32		
pΗ	5.07	Std. Units			1		02/09/22 12:32		
6010D ATL ICP	Analytical	Method: EPA 6	6010D Prepa	aration Met	hod: EF	PA 3010A			
	Pace Ana	lytical Services	- Peachtree	Corners, C	<b>S</b> A				
Calcium	15.0	mg/L	1.0	0.12	1	02/24/22 09:40	02/24/22 22:29	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	6020B Prepa	aration Met	hod: EF	PA 3005A			
	•	lytical Services	•						
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 09:35	02/25/22 15:35	7440-36-0	
Arsenic	0.0021J	mg/L	0.0050	0.0011	1		02/25/22 15:35		
Barium	0.021	mg/L	0.0050	0.00067	1		02/25/22 15:35		
Beryllium	0.0016	mg/L		0.00007	1		02/25/22 15:35		
Boron	4.0	mg/L	0.00030	0.0086	1		02/25/22 15:35		
Cadmium	0.00012J	mg/L	0.0050	0.0000	1		02/25/22 15:35		
		•							
Chromium	ND	mg/L	0.0050	0.0011	1		02/25/22 15:35		
Cobalt	ND	mg/L	0.0050	0.00039	1		02/25/22 15:35		
_ead	ND	mg/L	0.0010	0.00089	1		02/25/22 15:35		
Lithium	0.0023J	mg/L	0.030	0.00073	1		02/25/22 15:35		
Molybdenum	ND	mg/L	0.010	0.00074	1		02/25/22 15:35		
Selenium	0.031	mg/L	0.0050	0.0014	1		02/25/22 15:35		
Γhallium	ND	mg/L	0.0010	0.00018	1	02/24/22 09:35	02/25/22 15:35	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Prepa	aration Met	hod: EP	'A 7470A			
	Pace Ana	lytical Services	- Peachtree	Corners, C	€A				
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:30	02/16/22 14:26	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	•	lytical Services		Corners, C	βA				
Total Dissolved Solids	226	mg/L	10.0	10.0	1		02/14/22 15:19		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2.	1 1993					
•	Pace Ana	lytical Services	- Asheville						
Chloride	3.5	mg/L	1.0	0.60	1		02/15/22 07:33	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/15/22 07:33		
Sulfate	109	mg/L	3.0	1.5	3		02/15/22 17:05		



Project: YATES AMA-R6
Pace Project No.: 92587090

Date: 04/11/2022 12:45 PM

Sample: AMA-DUP-2	Lab ID:	92587090003	Collecte	ed: 02/08/22	2 00:00	Received: 02/	09/22 10:18 Ma	atrix: Water				
			Report									
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua			
6010D ATL ICP	Analytical I	Method: EPA 6	010D Pre	paration Met	hod: EF	A 3010A						
	Pace Analy	tical Services	- Peachtre	e Corners, C	SA.							
Calcium	14.6	mg/L	1.0	0.12	1	02/24/22 09:40	02/24/22 22:34	7440-70-2	M1			
6020 MET ICPMS	Analytical I	Method: EPA 6	020B Pre	paration Met	hod: EF	A 3005A						
	Pace Analy	tical Services	- Peachtre	e Corners, C	€A							
Antimony	0.0018J	mg/L	0.0030	0.00078	1	02/24/22 09:35	02/25/22 15:59	7440-36-0				
Arsenic	0.0027J	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 15:59	7440-38-2				
Barium	0.021	mg/L	0.0050	0.00067	1	02/24/22 09:35	02/25/22 15:59	7440-39-3				
Beryllium	0.0017	mg/L	0.00050	0.000054	1	02/24/22 09:35	02/25/22 15:59	7440-41-7				
Boron	4.1	mg/L	0.040	0.0086	1	02/24/22 09:35	02/25/22 15:59	7440-42-8				
Cadmium	0.00012J	mg/L	0.00050	0.00011	1	02/24/22 09:35	02/25/22 15:59	7440-43-9				
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 15:59	7440-47-3				
Cobalt	ND	mg/L	0.0050	0.00039	1	02/24/22 09:35	02/25/22 15:59	7440-48-4				
_ead	ND	mg/L	0.0010	0.00089	1	02/24/22 09:35	02/25/22 15:59	7439-92-1				
Lithium	0.0024J	mg/L	0.030	0.00073	1	02/24/22 09:35	02/25/22 15:59	7439-93-2				
Molybdenum	ND	mg/L	0.010	0.00074	1	02/24/22 09:35	02/25/22 15:59	7439-98-7				
Selenium	0.032	mg/L	0.0050	0.0014	1	02/24/22 09:35	02/25/22 15:59	7782-49-2				
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 09:35	02/25/22 15:59	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, C	<b>S</b> A							
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:30	02/16/22 14:28	7439-97-6				
2540C Total Dissolved Solids	Analytical I	Method: SM 25	540C-2015									
	Pace Analy	tical Services	- Peachtre	e Corners, C	€A							
Total Dissolved Solids	235	mg/L	10.0	10.0	1		02/14/22 15:19					
300.0 IC Anions 28 Days	Analytical I	Analytical Method: EPA 300.0 Rev 2.1 1993										
	Pace Analy	tical Services	- Asheville									
Chloride	3.5	mg/L	1.0	0.60	1		02/15/22 07:47	16887-00-6				
Fluoride	ND	mg/L	0.10	0.050	1		02/15/22 07:47					
Sulfate	107	mg/L	3.0	1.5	3		02/15/22 17:20					



## **ANALYTICAL RESULTS**

Project: YATES AMA-R6
Pace Project No.: 92587090

Sample: YGWC-43	Lab ID:	92587090004	Collecte	ed: 02/08/22	2 10:20	Received: 02/	/09/22 10:18 M	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	CUSTOME R				1		02/09/22 12:32		
рН	5.82	Std. Units			1		02/09/22 12:32		
6010D ATL ICP	•	Method: EPA 6 lytical Services				PA 3010A			
Calcium	9.9	mg/L	1.0	0.12	1	02/24/22 09:40	02/24/22 23:03	7440-70-2	
6020 MET ICPMS	•	Method: EPA 6 lytical Services				PA 3005A			
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 09:35	02/25/22 16:05	7440-36-0	
Arsenic	0.0022J	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 16:05	7440-38-2	
Barium	0.029	mg/L	0.0050	0.00067	1	02/24/22 09:35	02/25/22 16:05	7440-39-3	
Beryllium	0.00037J	mg/L	0.00050	0.000054	1		02/25/22 16:05		
Boron	2.3	mg/L	0.040	0.0086	1		02/25/22 16:05		
Cadmium	ND	mg/L	0.00050	0.00011	1		02/25/22 16:05		
Chromium	ND	mg/L	0.0050	0.0011	1		02/25/22 16:05		
Cobalt	0.00045J	mg/L	0.0050	0.00039	1		02/25/22 16:05		
Lead	ND	mg/L	0.0010	0.00089	1		02/25/22 16:05		
Lithium	0.016J	mg/L	0.030	0.00073	1		02/25/22 16:05		
Molybdenum	0.0020J	mg/L	0.010	0.00074	1		02/25/22 16:05		
Selenium	ND	mg/L	0.0050	0.0014	1		02/25/22 16:05		
Thallium	ND	mg/L	0.0010	0.00018	1		02/25/22 16:05		
7470 Mercury	Analytical	Method: EPA 7	470A Prep	paration Met	hod: EF	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:30	02/16/22 14:31	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Total Dissolved Solids	294	mg/L	10.0	10.0	1		02/14/22 15:19		
300.0 IC Anions 28 Days	-	Method: EPA 3		.1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	2.1	mg/L	1.0	0.60	1		02/15/22 08:01	16887-00-6	
Fluoride	0.066J	mg/L	0.10	0.050	1		02/15/22 08:01		
Sulfate	133	mg/L	3.0	1.5	3		02/15/22 17:34		



Project: YATES AMA-R6
Pace Project No.: 92587090

Date: 04/11/2022 12:45 PM

Sample: AMA-EB-1	Lab ID:	92587090005	Collecte	ed: 02/08/22	2 18:36	Received: 02/	09/22 10:18 Ma	atrix: Water			
			Report								
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua		
6010D ATL ICP	Analytical I	Method: EPA 6	010D Pre	paration Met	thod: El	PA 3010A					
	Pace Analy	tical Services	- Peachtre	e Corners, C	ЭΑ						
Calcium	ND	mg/L	1.0	0.12	1	02/24/22 09:40	02/24/22 23:08	7440-70-2			
6020 MET ICPMS	Analytical I	Method: EPA 6	020B Pre	paration Met	thod: Ef	PA 3005A					
	Pace Analy	tical Services	- Peachtre	e Corners, C	ЭΑ						
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 09:35	02/25/22 16:11	7440-36-0			
Arsenic	ND	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 16:11	7440-38-2			
Barium	ND	mg/L	0.0050	0.00067	1	02/24/22 09:35	02/25/22 16:11	7440-39-3			
Beryllium	ND	mg/L	0.00050	0.000054	1	02/24/22 09:35	02/25/22 16:11	7440-41-7			
Boron	0.023J	mg/L	0.040	0.0086	1	02/24/22 09:35	02/25/22 16:11	7440-42-8			
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/22 09:35	02/25/22 16:11	7440-43-9			
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 16:11	7440-47-3			
Cobalt	ND	mg/L	0.0050	0.00039	1	02/24/22 09:35	02/25/22 16:11	7440-48-4			
₋ead	ND	mg/L	0.0010	0.00089	1	02/24/22 09:35	02/25/22 16:11	7439-92-1			
_ithium	ND	mg/L	0.030	0.00073	1	02/24/22 09:35	02/25/22 16:11	7439-93-2			
Molybdenum	ND	mg/L	0.010	0.00074	1	02/24/22 09:35	02/25/22 16:11	7439-98-7			
Selenium	ND	mg/L	0.0050	0.0014	1	02/24/22 09:35	02/25/22 16:11	7782-49-2			
Γhallium	ND	mg/L	0.0010	0.00018	1	02/24/22 09:35	02/25/22 16:11	7440-28-0			
7470 Mercury	Analytical I	Method: EPA 7	470A Pre	paration Met	hod: EF	PA 7470A					
	Pace Analy	tical Services	- Peachtre	e Corners, C	ЭΑ						
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:30	02/16/22 14:34	7439-97-6			
2540C Total Dissolved Solids	Analytical I	Method: SM 2	540C-2015								
	Pace Analy	tical Services	- Peachtre	e Corners, C	ЭΑ						
Total Dissolved Solids	12.0	mg/L	10.0	10.0	1		02/14/22 15:20				
300.0 IC Anions 28 Days	•	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		02/15/22 08:42	16887-00-6			
Fluoride	ND	mg/L	0.10	0.050	1		02/15/22 08:42				
Sulfate	ND	mg/L	1.0	0.50	1		02/15/22 08:42				



Project: YATES AMA-R6
Pace Project No.: 92587090

Date: 04/11/2022 12:45 PM

Sample: YAMW-5	Lab ID:	92587090006	Collecte	ed: 02/10/22	2 11:30	Received: 02/	/11/22 16:45 M	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	CUSTOME R				1		02/14/22 12:24		
рН	5.22	Std. Units			1		02/14/22 12:24		
6010D ATL ICP	•	Method: EPA 6 lytical Services				PA 3010A			
Calcium	40.8	mg/L	1.0	0.12	1	02/24/22 09:40	02/24/22 23:13	7440-70-2	
6020 MET ICPMS	•	Method: EPA 6 lytical Services				PA 3005A			
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 09:35	02/25/22 16:29	7440-36-0	
Arsenic	0.0024J	mg/L	0.0050	0.0011	1		02/25/22 16:29		
Barium	0.034	mg/L	0.0050	0.00067	1		02/25/22 16:29		
Beryllium	0.00013J	mg/L	0.00050	0.000054	1		02/25/22 16:29		
Boron	4.9	mg/L	0.040	0.0086	1		02/25/22 16:29		
Cadmium	0.00022J	mg/L	0.00050	0.00011	1		02/25/22 16:29		
Chromium	0.0016J	mg/L	0.0050	0.0011	1		02/25/22 16:29		
Cobalt	ND	mg/L	0.0050	0.00039	1		02/25/22 16:29		
Lead	ND	mg/L	0.0010	0.00089	1		02/25/22 16:29		
Lithium	0.015J	mg/L	0.030	0.00073	1		02/25/22 16:29		
Molybdenum	ND	mg/L	0.010	0.00074	1		02/25/22 16:29		
Selenium	0.057	mg/L	0.0050	0.0014	1		02/25/22 16:29		
Thallium	ND	mg/L	0.0010	0.00018	1		02/25/22 16:29		
7470 Mercury	Analytical	Method: EPA 7	7470A Prep	paration Met	hod: EF	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	€A				
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:30	02/22/22 10:28	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Total Dissolved Solids	499	mg/L	10.0	10.0	1		02/17/22 16:07		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	3.9	mg/L	1.0	0.60	1		02/19/22 16:35	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 16:35		
Sulfate	276	mg/L	6.0	3.0	6		02/21/22 00:42		



## **ANALYTICAL RESULTS**

Project: YATES AMA-R6
Pace Project No.: 92587090

Sample: PZ-37	Lab ID:	92587090007	Collecte	ed: 02/10/22	2 13:05	Received: 02/	/11/22 16:45 M	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	CUSTOME R				1		02/14/22 12:25		
рН	4.93	Std. Units			1		02/14/22 12:25		
6010D ATL ICP	•	Method: EPA 6 lytical Services				PA 3010A			
Calcium	106	mg/L	1.0	0.12	1	02/24/22 09:40	02/24/22 23:18	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	6020B Pre	paration Met	hod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	SA.				
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 09:35	02/25/22 16:35	7440-36-0	
Arsenic	0.0017J	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 16:35	7440-38-2	
Barium	0.029	mg/L	0.0050	0.00067	1		02/25/22 16:35		
Beryllium	0.0010	mg/L	0.00050	0.000054	1		02/25/22 16:35		
Boron	9.5	mg/L	0.040	0.0086	1		02/25/22 16:35		
Cadmium	0.00093	mg/L	0.00050	0.00011	1		02/25/22 16:35		
Chromium	ND	mg/L	0.0050	0.0011	1		02/25/22 16:35		
Cobalt	0.0036J	mg/L	0.0050	0.00039	1		02/25/22 16:35		
Lead	ND	mg/L	0.0030	0.00089	1		02/25/22 16:35		
Lithium	0.017J	ŭ	0.030	0.00039	1		02/25/22 16:35		
	0.0173 ND	mg/L	0.030	0.00073	1		02/25/22 16:35		
Molybdenum		mg/L							
Selenium	0.20	mg/L	0.0050	0.0014	1		02/25/22 16:35		
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 09:35	02/25/22 16:35	7440-28-0	
7470 Mercury	•	Method: EPA 7				PA 7470A			
		lytical Services		•					
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:30	02/22/22 10:30	7439-97-6	
2540C Total Dissolved Solids		Method: SM 29 lytical Services		e Corners, C	SA.				
Total Dissolved Solids	798	mg/L	20.0	20.0	1		02/17/22 16:08		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	4.2	mg/L	1.0	0.60	1		02/19/22 16:48	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 16:48	16984-48-8	M1
Sulfate	452	mg/L	10.0	5.0	10		02/21/22 00:56	14808-79-8	M1



Project: YATES AMA-R6
Pace Project No.: 92587090

Date: 04/11/2022 12:45 PM

Sample: AMA-DUP-4	Lab ID:	92587090008	Collecte	ed: 02/10/22	2 00:00	Received: 02/	11/22 16:45 Ma	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					
	Pace Anal	ytical Services	- Peachtre	e Corners, C	€A						
Calcium	107	mg/L	1.0	0.12	1	02/24/22 09:40	02/24/22 23:22	7440-70-2			
6020 MET ICPMS	Analytical	Method: EPA 6	020B Pre	paration Met	hod: EF	A 3005A					
	Pace Anal	ytical Services	- Peachtre	e Corners, C	SA.						
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 09:35	02/25/22 16:41	7440-36-0			
Arsenic	0.0018J	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 16:41	7440-38-2			
Barium	0.029	mg/L	0.0050	0.00067	1	02/24/22 09:35	02/25/22 16:41	7440-39-3			
Beryllium	0.0011	mg/L	0.00050	0.000054	1	02/24/22 09:35	02/25/22 16:41	7440-41-7			
Boron	9.6	mg/L	0.040	0.0086	1	02/24/22 09:35	02/25/22 16:41	7440-42-8			
Cadmium	0.00089	mg/L	0.00050	0.00011	1	02/24/22 09:35	02/25/22 16:41	7440-43-9			
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 16:41	7440-47-3			
Cobalt	0.0041J	mg/L	0.0050	0.00039	1	02/24/22 09:35	02/25/22 16:41	7440-48-4			
_ead	ND	mg/L	0.0010	0.00089	1	02/24/22 09:35	02/25/22 16:41	7439-92-1			
_ithium	0.017J	mg/L	0.030	0.00073	1	02/24/22 09:35	02/25/22 16:41	7439-93-2			
Molybdenum	ND	mg/L	0.010	0.00074	1	02/24/22 09:35	02/25/22 16:41	7439-98-7			
Selenium	0.20	mg/L	0.0050	0.0014	1	02/24/22 09:35	02/25/22 16:41	7782-49-2			
Γhallium	ND	mg/L	0.0010	0.00018	1	02/24/22 09:35	02/25/22 16:41	7440-28-0			
7470 Mercury	Analytical	Method: EPA 7	470A Prep	paration Met	hod: EF	A 7470A					
	Pace Anal	ytical Services	- Peachtre	e Corners, C	<b>S</b> A						
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:45	02/22/22 11:11	7439-97-6			
2540C Total Dissolved Solids	Analytical	Method: SM 25	540C-2015								
	Pace Anal	ytical Services	- Peachtre	e Corners, C	βA						
Total Dissolved Solids	772	mg/L	20.0	20.0	1		02/17/22 17:00				
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993										
	Pace Anal	ytical Services	- Asheville								
Chloride	4.2	mg/L	1.0	0.60	1		02/19/22 17:29	16887-00-6			
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 17:29	16984-48-8			
Sulfate	475	mg/L	10.0	5.0	10		02/21/22 01:36	14808-79-8			



## **ANALYTICAL RESULTS**

Project: YATES AMA-R6
Pace Project No.: 92587090

Sample: PZ-51	Lab ID:	92587090009	Collecte	ed: 02/10/22	2 18:10	Received: 02/	/11/22 16:45 M	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	CUSTOME R				1		02/14/22 12:25		
рН	4.46	Std. Units			1		02/14/22 12:25		
6010D ATL ICP	•	Method: EPA 6 lytical Services				PA 3010A			
Calcium	54.7	mg/L	1.0	0.12	1	02/24/22 09:40	02/24/22 23:27	7440-70-2	
6020 MET ICPMS	•	Method: EPA 6 lytical Services				PA 3005A			
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 09:35	02/25/22 16:47	7440-36-0	
Arsenic	0.0013J	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 16:47	7440-38-2	
Barium	0.017	mg/L	0.0050	0.00067	1	02/24/22 09:35	02/25/22 16:47	7440-39-3	
Beryllium	0.0033	mg/L	0.00050	0.000054	1		02/25/22 16:47		
Boron	6.8	mg/L	0.040	0.0086	1	02/24/22 09:35	02/25/22 16:47	7440-42-8	
Cadmium	0.0019	mg/L	0.00050	0.00011	1		02/25/22 16:47		
Chromium	ND	mg/L	0.0050	0.0011	1		02/25/22 16:47		
Cobalt	0.033	mg/L	0.0050	0.00039	1		02/25/22 16:47		
Lead	ND	mg/L	0.0010	0.00089	1		02/25/22 16:47		
Lithium	0.0060J	mg/L	0.030	0.00073	1		02/25/22 16:47		
Molybdenum	ND	mg/L	0.010	0.00074	1		02/25/22 16:47		
Selenium	0.029	mg/L	0.0050	0.0014	1	02/24/22 09:35	02/25/22 16:47	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1		02/25/22 16:47		
7470 Mercury	Analytical	Method: EPA 7	7470A Prep	paration Met	hod: EF	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	€A				
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:45	02/22/22 11:14	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Total Dissolved Solids	574	mg/L	20.0	20.0	1		02/17/22 17:01		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	4.2	mg/L	1.0	0.60	1		02/19/22 17:42	16887-00-6	
Fluoride	0.10	mg/L	0.10	0.050	1		02/19/22 17:42		
Sulfate	306	mg/L	7.0	3.5	7		02/21/22 01:49		



Project: YATES AMA-R6
Pace Project No.: 92587090

Date: 04/11/2022 12:45 PM

Sample: YAMW-1	Lab ID:	92587090010	Collecte	ed: 02/10/22	2 11:55	Received: 02/	'11/22 16:45 M	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	CUSTOME R				1		02/14/22 12:25		
рН	5.80	Std. Units			1		02/14/22 12:25		
6010D ATL ICP	•	Method: EPA 6 lytical Services				PA 3010A			
Calcium	21.5	mg/L	1.0	0.12	1	02/24/22 09:40	02/24/22 23:32	7440-70-2	
6020 MET ICPMS	•	Method: EPA 6 lytical Services				PA 3005A			
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 09:35	02/25/22 16:53	7440-36-0	
Arsenic	0.0023J	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 16:53	7440-38-2	
Barium	0.084	mg/L	0.0050	0.00067	1	02/24/22 09:35	02/25/22 16:53	7440-39-3	
Beryllium	0.00016J	mg/L	0.00050	0.000054	1	02/24/22 09:35	02/25/22 16:53	7440-41-7	
Boron	0.36	mg/L	0.040	0.0086	1	02/24/22 09:35	02/25/22 16:53	7440-42-8	
Cadmium	0.00018J	mg/L	0.00050	0.00011	1	02/24/22 09:35	02/25/22 16:53	7440-43-9	
Chromium	0.0013J	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 16:53	7440-47-3	
Cobalt	0.011	mg/L	0.0050	0.00039	1	02/24/22 09:35	02/25/22 16:53	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 09:35	02/25/22 16:53	7439-92-1	
Lithium	0.014J	mg/L	0.030	0.00073	1	02/24/22 09:35	02/25/22 16:53	7439-93-2	
Molybdenum	0.00089J	mg/L	0.010	0.00074	1		02/25/22 16:53		
Selenium	0.0034J	mg/L	0.0050	0.0014	1	02/24/22 09:35	02/25/22 16:53	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 09:35	02/25/22 16:53	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	7470A Prep	aration Met	hod: EF	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	€A				
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:45	02/22/22 11:16	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	€A				
Total Dissolved Solids	281	mg/L	10.0	10.0	1		02/17/22 17:01		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	5.3	mg/L	1.0	0.60	1		02/19/22 17:55	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 17:55		
Sulfate	120	mg/L	3.0	1.5	3		02/21/22 02:04		



## **ANALYTICAL RESULTS**

Project: YATES AMA-R6
Pace Project No.: 92587090

Sample: PZ-35	Lab ID:	92587090011	Collecte	d: 02/10/22	2 14:37	Received: 02/	'11/22 16:45 M	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	s - Charlotte						
Performed by	CUSTOME R				1		02/14/22 12:25		
pΗ	5.35	Std. Units			1		02/14/22 12:25		
6010D ATL ICP	•	Method: EPA	•			PA 3010A			
	Pace Ana	lytical Services	s - Peachtree	e Corners, C	iΑ				
Calcium	8.8	mg/L	1.0	0.12	1	02/24/22 09:40	02/24/22 23:46	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA	6020B Prep	aration Met	hod: EF	PA 3005A			
	Pace Ana	lytical Services	s - Peachtree	e Corners, C	βA				
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 09:35	02/25/22 16:59	7440-36-0	
Arsenic	0.0018J	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 16:59		
Barium	0.074	mg/L	0.0050	0.00067	1		02/25/22 16:59		
Beryllium	0.00055	mg/L		0.000054	1		02/25/22 16:59		
Boron	0.054	mg/L	0.040	0.0086	1		02/25/22 16:59		
Cadmium	ND	mg/L	0.0050	0.00011	1		02/25/22 16:59		
Chromium	ND	mg/L	0.0050	0.00011	1		02/25/22 16:59		
	ND ND	-		0.00011	1		02/25/22 16:59		
Cobalt		mg/L	0.0050						
_ead	ND	mg/L	0.0010	0.00089	1		02/25/22 16:59		
_ithium	0.0021J	mg/L	0.030	0.00073	1		02/25/22 16:59		
Molybdenum	ND	mg/L	0.010	0.00074	1		02/25/22 16:59		
Selenium	0.0030J	mg/L	0.0050	0.0014	1		02/25/22 16:59		
Γhallium	ND	mg/L	0.0010	0.00018	1	02/24/22 09:35	02/25/22 16:59	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Prep	aration Met	hod: EF	PA 7470A			
	Pace Ana	lytical Services	s - Peachtree	Corners, C	€A				
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:45	02/22/22 11:24	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	•	lytical Services		e Corners, C	βA				
Total Dissolved Solids	130	mg/L	10.0	10.0	1		02/17/22 17:01		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	.1 1993					
	Pace Ana	lytical Services	s - Asheville						
Chloride	5.6	mg/L	1.0	0.60	1		02/19/22 18:36	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 18:36		
Sulfate	42.6	mg/L	1.0	0.50	1		02/19/22 18:36		



Project: YATES AMA-R6
Pace Project No.: 92587090

Date: 04/11/2022 12:45 PM

Sample: YAMW-4	Lab ID:	92587090012	Collecte	ed: 02/10/22	2 12:00	Received: 02/	/11/22 16:45 M	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	CUSTOME R				1		02/14/22 12:25		
рН	6.10	Std. Units			1		02/14/22 12:25		
6010D ATL ICP	•	Method: EPA 6 lytical Services				PA 3010A			
Calcium	11.6	mg/L	1.0	0.12	1	02/24/22 09:40	02/24/22 23:51	7440-70-2	
6020 MET ICPMS	•	Method: EPA 6 lytical Services				PA 3005A			
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 09:35	02/25/22 17:05	7440-36-0	
Arsenic	0.0026J	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 17:05	7440-38-2	
Barium	0.0033J	mg/L	0.0050	0.00067	1	02/24/22 09:35	02/25/22 17:05	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/24/22 09:35	02/25/22 17:05	7440-41-7	
Boron	3.0	mg/L	0.040	0.0086	1	02/24/22 09:35	02/25/22 17:05	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/22 09:35	02/25/22 17:05	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 17:05	7440-47-3	
Cobalt	0.00044J	mg/L	0.0050	0.00039	1	02/24/22 09:35	02/25/22 17:05	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 09:35	02/25/22 17:05		
Lithium	0.036	mg/L	0.030	0.00073	1				
Molybdenum	0.0076J	mg/L	0.010	0.00074	1	02/24/22 09:35	02/25/22 17:05		
Selenium	0.019	mg/L	0.0050	0.0014	1	02/24/22 09:35	02/25/22 17:05	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1		02/25/22 17:05		
7470 Mercury	Analytical	Method: EPA 7	470A Prep	aration Met	hod: EF	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	3A				
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:45	02/22/22 11:27	7439-97-6	
2540C Total Dissolved Solids	•	Method: SM 29 lytical Services		e Corners, G	ΘA				
Total Dissolved Solids	346	mg/L	10.0	10.0	1		02/17/22 17:01		
300.0 IC Anions 28 Days	•	Method: EPA 3		2.1 1993					
Chloride	1.4	mg/L	1.0	0.60	1		02/19/22 18:49	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 18:49		
Sulfate	160	J	4.0	2.0	4		02/19/22 16:49		
Juliate	100	mg/L	4.0	2.0	4		02/21/22 02.10	14000-13-0	



## **ANALYTICAL RESULTS**

Project: YATES AMA-R6
Pace Project No.: 92587090

Sample: YGWC-23S	Lab ID:	92587090013	Collected	d: 02/10/22	2 15:10	Received: 02/	11/22 16:45 M	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	CUSTOME				1		02/14/22 12:26		
рН	R 5.51	Std. Units			1		02/14/22 12:26		
	A solution	Mothod: CDA	010D Drop	aration Ma		24 20104			
6010D ATL ICP	•	Method: EPA				A 3010A			
		lytical Services		•					
Calcium	11.8	mg/L	1.0	0.12	1	02/24/22 09:40	02/24/22 23:56	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA	6020B Prep	aration Met	hod: EF	PA 3005A			
	Pace Ana	lytical Services	s - Peachtree	Corners, C	βA				
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 09:35	02/25/22 17:11	7440-36-0	
Arsenic	0.0025J	mg/L	0.0050	0.0011	1		02/25/22 17:11		
Barium	0.058	mg/L	0.0050	0.00067	1		02/25/22 17:11		
Beryllium	0.00023J	mg/L		0.000054	1		02/25/22 17:11		
Boron	1.5	mg/L	0.040	0.0086	1		02/25/22 17:11		
Cadmium	ND	mg/L	0.0050	0.00011	1		02/25/22 17:11		
Chromium	ND ND	mg/L	0.0050	0.00011	1		02/25/22 17:11		
Cobalt	ND ND	mg/L	0.0050	0.00011	1		02/25/22 17:11		
-ead	ND ND	mg/L	0.0030	0.00039	1		02/25/22 17:11		
		-							
_ithium	0.0029J	mg/L	0.030	0.00073	1		02/25/22 17:11		
Molybdenum	ND	mg/L	0.010	0.00074	1		02/25/22 17:11		
Selenium	0.039	mg/L	0.0050	0.0014	1		02/25/22 17:11		
Γhallium	ND	mg/L	0.0010	0.00018	1	02/24/22 09:35	02/25/22 17:11	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Prep	aration Met	hod: EF	A 7470A			
	Pace Ana	lytical Services	- Peachtree	Corners, C	3A				
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:45	02/22/22 11:29	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
23400 Total Dissolved Collas	•	lytical Services		Corners (	2 /				
Total Dissolved Solids	180	mg/L	10.0	10.0	1		02/17/22 17:01		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2.	.1 1993					
•	Pace Ana	lytical Services	- Asheville						
Chloride	1.9	mg/L	1.0	0.60	1		02/19/22 19:03	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 19:03		
Sulfate	78.7	mg/L	1.0	0.50	1		02/19/22 19:03		
Ounate	10.1	mg/L	1.0	0.50	'		02/13/22 13.03	14000-13-0	



Project: YATES AMA-R6
Pace Project No.: 92587090

Date: 04/11/2022 12:45 PM

Sample: YGWC-38	Lab ID:	92587090014	Collecte	ed: 02/10/22	2 09:50	Received: 02/	11/22 16:45 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	CUSTOME R				1		02/14/22 12:26		
рН	4.85	Std. Units			1		02/14/22 12:26		
6010D ATL ICP	Analytical	Method: EPA 6	010D Pre	paration Me	thod: Ef	PA 3010A			
	•	lytical Services							
Calcium	68.9	mg/L	1.0	0.12	1	02/24/22 09:40	02/25/22 00:01	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	020B Pre	paration Met	hod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, 0	βA				
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 09:35	02/25/22 17:17	7440-36-0	
Arsenic	0.0017J	mg/L	0.0050	0.0011	1		02/25/22 17:17		
Barium	0.016	mg/L	0.0050	0.00067	1		02/25/22 17:17		
Beryllium	0.0027	mg/L	0.00050	0.000054	1		02/25/22 17:17		
Boron	5.4	mg/L	0.00030	0.000034	1		02/25/22 17:17		
Cadmium	0.0011			0.0000	1		02/25/22 17:17		
		mg/L	0.00050						
Chromium	ND	mg/L	0.0050	0.0011	1		02/25/22 17:17		
Cobalt	ND	mg/L	0.0050	0.00039	1		02/25/22 17:17		
Lead	ND	mg/L	0.0010	0.00089	1		02/25/22 17:17		
Lithium	0.0068J	mg/L	0.030	0.00073	1		02/25/22 17:17		
Molybdenum	ND	mg/L	0.010	0.00074	1		02/25/22 17:17		
Selenium	0.064	mg/L	0.0050	0.0014	1	02/24/22 09:35	02/25/22 17:17	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 09:35	02/25/22 17:17	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	470A Prep	paration Met	hod: EF	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, (	3A				
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:30	02/22/22 09:24	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 25	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, 0	3A				
Total Dissolved Solids	541	mg/L	10.0	10.0	1		02/17/22 17:01		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	00.0 Rev 2	2.1 1993					
•	Pace Ana	lytical Services	- Asheville						
Chloride	4.0	mg/L	1.0	0.60	1		02/19/22 19:16	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 19:16		
Sulfate	290	mg/L	6.0	3.0	6		02/21/22 02:59		



Project: YATES AMA-R6
Pace Project No.: 92587090

Date: 04/11/2022 12:45 PM

Sample: YGWC-42	Lab ID:	92587090015	Collecte	ed: 02/10/22	2 16:35	Received: 02/	/11/22 16:45 M	latrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte	:					
Performed by	CUSTOME R				1		02/14/22 12:26	6	
рН	5.57	Std. Units			1		02/14/22 12:26	6	
6010D ATL ICP	•	Method: EPA 6 lytical Services				PA 3010A			
Calcium	74.4	mg/L	1.0	0.12	1	02/24/22 09:40	02/25/22 00:06	7440-70-2	
6020 MET ICPMS	•	Method: EPA 6				PA 3005A			
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 09:35	02/25/22 17:23	3 7440-36-0	
Arsenic	0.0026J	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 17:23	3 7440-38-2	
Barium	0.026	mg/L	0.0050	0.00067	1	02/24/22 09:35	02/25/22 17:23	3 7440-39-3	
Beryllium	0.000061J	mg/L	0.00050	0.000054	1	02/24/22 09:35	02/25/22 17:23	3 7440-41-7	
Boron	14.4	mg/L	2.0	0.43	50	02/24/22 09:35	02/28/22 16:43	3 7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/22 09:35	02/25/22 17:23	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 17:23	3 7440-47-3	
Cobalt	0.0017J	mg/L	0.0050	0.00039	1	02/24/22 09:35	02/25/22 17:23	3 7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1		02/25/22 17:23		
Lithium	0.052	mg/L	0.030	0.00073	1	02/24/22 09:35	02/25/22 17:23	3 7439-93-2	
Molybdenum	0.00080J	mg/L	0.010	0.00074	1	02/24/22 09:35	02/25/22 17:23	7439-98-7	
Selenium	0.044	mg/L	0.0050	0.0014	1	02/24/22 09:35	02/25/22 17:23	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 09:35	02/25/22 17:23	3 7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Prep	paration Met	hod: EF	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:30	02/22/22 09:35	7439-97-6	
2540C Total Dissolved Solids	•	Method: SM 2 lytical Services			θA				
Total Dissolved Solids	882	mg/L	20.0	20.0	1		02/17/22 17:01		
300.0 IC Anions 28 Days	•	Method: EPA 3		2.1 1993					
Chloride	3.3	mg/L	1.0	0.60	1		02/19/22 19:30	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 19:30		
Sulfate	485	ū	11.0	5.5	11		02/21/22 03:12		
Suirate	485	mg/L	11.0	5.5	11		02/21/22 03:12	14808-79-8	



## **ANALYTICAL RESULTS**

Project: YATES AMA-R6
Pace Project No.: 92587090

Sample: YGWC-24SA	Lab ID:	92587090016	Collecte	ed: 02/10/22	2 14:40	Received: 02/	/11/22 16:45 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	CUSTOME R				1		02/14/22 12:26		
рН	4.66	Std. Units			1		02/14/22 12:26		
6010D ATL ICP	•	Method: EPA 6				PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, (	3A				
Calcium	2.2	mg/L	1.0	0.12	1	02/24/22 09:40	02/25/22 00:11	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	020B Pre	paration Met	hod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, 0	3A				
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 09:35	02/25/22 18:27	7440-36-0	
Arsenic	0.0024J	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 18:27	7440-38-2	
Barium	0.026	mg/L	0.0050	0.00067	1	02/24/22 09:35	02/25/22 18:27	7440-39-3	
Beryllium	0.00016J	mg/L	0.00050	0.000054	1	02/24/22 09:35	02/25/22 18:27	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1		02/25/22 18:27		
Cadmium	ND	mg/L	0.00050	0.00011	1		02/25/22 18:27		
Chromium	ND	mg/L	0.0050	0.0011	1		02/25/22 18:27		
Cobalt	ND	mg/L	0.0050	0.00039	1		02/25/22 18:27		
Lead	ND	mg/L	0.0010	0.00089	1		02/25/22 18:27		
Lithium	ND	mg/L	0.030	0.00073	1		02/25/22 18:27		
Molybdenum	ND ND	mg/L	0.030	0.00073	1		02/25/22 18:27		
Selenium	ND ND	mg/L	0.0050	0.00074	1		02/25/22 18:27		
Thallium	ND ND	mg/L	0.0030	0.0014	1		02/25/22 18:27		
		Ü					02/20/22 10.21	7440 20 0	
7470 Mercury	•	Method: EPA 7				A 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	έA				
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:30	02/22/22 09:38	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 25	540C-2015						
	•	lytical Services			3A				
Total Dissolved Solids	78.0	mg/L	10.0	10.0	1		02/17/22 17:01		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	2.1 1993					
- -	Pace Ana	lytical Services	- Asheville						
Chloride	8.7	mg/L	1.0	0.60	1		02/19/22 19:43	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 19:43		
Sulfate	ND	mg/L	1.0	0.50	1		02/19/22 19:43		



Project: YATES AMA-R6
Pace Project No.: 92587090

Date: 04/11/2022 12:45 PM

Sample: AMA-DUP-1	Lab ID:	92587090017	Collecte	ed: 02/10/22	2 00:00	Received: 02/	11/22 16:45 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
6010D ATL ICP	Analytical N	Method: EPA 6	010D Pre	paration Met	hod: EF	PA 3010A			
	Pace Analy	tical Services	- Peachtre	e Corners, C	SA.				
Calcium	2.2	mg/L	1.0	0.12	1	02/24/22 09:40	02/25/22 00:16	7440-70-2	
6020 MET ICPMS	Analytical N	Method: EPA 6	020B Pre	paration Met	hod: EF	'A 3005A			
	Pace Analy	tical Services	- Peachtre	e Corners, C	βA				
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 09:35	02/25/22 18:33	7440-36-0	
Arsenic	0.0019J	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 18:33	7440-38-2	
Barium	0.027	mg/L	0.0050	0.00067	1	02/24/22 09:35	02/25/22 18:33	7440-39-3	
Beryllium	0.00017J	mg/L	0.00050	0.000054	1	02/24/22 09:35	02/25/22 18:33	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/24/22 09:35	02/25/22 18:33	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/22 09:35	02/25/22 18:33	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 18:33	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/24/22 09:35	02/25/22 18:33	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 09:35	02/25/22 18:33	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/24/22 09:35	02/25/22 18:33	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/24/22 09:35	02/25/22 18:33	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/24/22 09:35	02/25/22 18:33	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 09:35	02/25/22 18:33	7440-28-0	
7470 Mercury	Analytical N	Method: EPA 7	470A Prep	paration Met	hod: EP	A 7470A			
	Pace Analy	tical Services	- Peachtre	e Corners, C	<b>S</b> A				
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:30	02/22/22 09:40	7439-97-6	
2540C Total Dissolved Solids	Analytical N	Method: SM 25	540C-2015						
	-	tical Services			SA.				
Total Dissolved Solids	71.0	mg/L	10.0	10.0	1		02/17/22 17:01		
300.0 IC Anions 28 Days	Analytical N	Method: EPA 3	300.0 Rev 2	2.1 1993					
	Pace Analy	tical Services	- Asheville						
Chloride	8.7	mg/L	1.0	0.60	1		02/21/22 20:19	16887-00-6	M1
Fluoride	ND	mg/L	0.10	0.050	1		02/21/22 20:19		M1
Sulfate	ND	mg/L	1.0	0.50	1		02/21/22 20:19		M1



## **ANALYTICAL RESULTS**

Project: YATES AMA-R6
Pace Project No.: 92587090

Sample: YGWC-36A	Lab ID:	92587090018	Collecte	ed: 02/11/22	2 11:19	Received: 02/	11/22 16:45 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte	<b>;</b>					
Performed by	CUSTOME R				1		02/14/22 12:27		
рН	5.58	Std. Units			1		02/14/22 12:27		
6010D ATL ICP	•	Method: EPA 6 lytical Services				PA 3010A			
Calcium	4.6	mg/L	1.0	0.12	1	02/24/22 09:40	02/25/22 00:21	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	020B Pre	paration Met	hod: Ef	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Antimony	0.0023J	mg/L	0.0030	0.00078	1	02/24/22 09:35	02/25/22 18:39	7440-36-0	
Arsenic	0.0014J	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 18:39	7440-38-2	
Barium	0.044	mg/L	0.0050	0.00067	1		02/25/22 18:39	7440-39-3	
Beryllium	0.00043J	mg/L	0.00050	0.000054	1	02/24/22 09:35	02/25/22 18:39	7440-41-7	
Boron	0.019J	mg/L	0.040	0.0086	1		02/25/22 18:39		
Cadmium	ND	mg/L	0.00050	0.00011	1		02/25/22 18:39		
Chromium	ND	mg/L	0.0050	0.0011	1		02/25/22 18:39		
Cobalt	ND	mg/L	0.0050	0.00039	1		02/25/22 18:39		
_ead	ND	mg/L	0.0030	0.00089	1		02/25/22 18:39		
Lithium	0.00093J	mg/L	0.030	0.0003	1		02/25/22 18:39		
Molybdenum	0.000933 ND	mg/L	0.030	0.00073	1		02/25/22 18:39		
Selenium	ND ND	-		0.00074	1		02/25/22 18:39		
Thallium	ND ND	mg/L	0.0050 0.0010	0.0014	1		02/25/22 18:39		
mailium		mg/L					02/25/22 16.39	7440-26-0	
7470 Mercury		Method: EPA 7				PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	SA.				
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:30	02/22/22 09:43	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	<b>S</b> A				
Total Dissolved Solids	81.0	mg/L	10.0	10.0	1		02/17/22 17:03		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	6.6	mg/L	1.0	0.60	1		02/21/22 20:59	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/21/22 20:59	16984-48-8	
Sulfate	16.4	mg/L	1.0	0.50	1		02/21/22 20:59	14808-79-8	



Project: YATES AMA-R6
Pace Project No.: 92587090

Date: 04/11/2022 12:45 PM

Sample: YAMW-2	Lab ID:	92587090019	Collecte	ed: 02/10/22	2 09:45	Received: 02/	/11/22 16:45 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Anal	ytical Services	- Charlotte						
Performed by	CUSTOME R				1		02/14/22 12:27		
рН	5.64	Std. Units			1		02/14/22 12:27		
6010D ATL ICP	•	Method: EPA 6 ytical Services				PA 3010A			
Calcium	1.3	mg/L	1.0	0.12	1	02/24/22 09:40	02/25/22 00:26	7440-70-2	
6020 MET ICPMS	•	Method: EPA 6 ytical Services				PA 3005A			
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 09:35	02/25/22 18:45	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 18:45	7440-38-2	
Barium	0.0074	mg/L	0.0050	0.00067	1	02/24/22 09:35	02/25/22 18:45	7440-39-3	
Beryllium	0.000074J	mg/L	0.00050	0.000054	1	02/24/22 09:35	02/25/22 18:45	7440-41-7	
Boron	0.022J	mg/L	0.040	0.0086	1	02/24/22 09:35	02/25/22 18:45	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/22 09:35	02/25/22 18:45	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 09:35	02/25/22 18:45	7440-47-3	
Cobalt	0.00052J	mg/L	0.0050	0.00039	1	02/24/22 09:35	02/25/22 18:45	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 09:35	02/25/22 18:45	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/24/22 09:35	02/25/22 18:45	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/24/22 09:35	02/25/22 18:45	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/24/22 09:35	02/25/22 18:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 09:35	02/25/22 18:45	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	7470A Prep	paration Met	hod: EF	PA 7470A			
	Pace Anal	ytical Services	- Peachtre	e Corners, C	3A				
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:30	02/22/22 09:51	7439-97-6	
2540C Total Dissolved Solids	•	Method: SM 2		e Corners, C	GΑ				
Total Dissolved Solids	48.0	mg/L	10.0	10.0	1		02/17/22 17:02		
300.0 IC Anions 28 Days	-	Method: EPA 3		2.1 1993					
Oblacida		•		0.00			00/04/00 04 40	40007.00.0	
Chloride	2.5	mg/L	1.0	0.60	1		02/21/22 21:13		
Fluoride	ND	mg/L	0.10	0.050	1		02/21/22 21:13		
Sulfate	7.1	mg/L	1.0	0.50	1		02/21/22 21:13	14808-79-8	



Project: YATES AMA-R6
Pace Project No.: 92587090

Date: 04/11/2022 12:45 PM

Sample: YAMW-3	Lab ID:	92587090020	Collecte	ed: 02/10/22	2 15:35	Received: 02/	11/22 16:45 M	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	CUSTOME R				1		02/14/22 12:27		
рН	5.93	Std. Units			1		02/14/22 12:27		
6010D ATL ICP	•	Method: EPA 6 lytical Services				PA 3010A			
Calcium	29.4	mg/L	1.0	0.12	1	02/24/22 10:47	02/25/22 01:18	7440-70-2	
6020 MET ICPMS	•	Method: EPA 6 lytical Services				PA 3005A			
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 09:35	02/25/22 18:51	7440-36-0	
Arsenic	0.0038J	mg/L	0.0050	0.0011	1		02/25/22 18:51		
Barium	0.038	mg/L	0.0050	0.00067	1		02/25/22 18:51		
Beryllium	0.000078J	mg/L	0.00050	0.000054	1		02/25/22 18:51		
Boron	7.7	mg/L	0.040	0.0086	1		02/25/22 18:51		
Cadmium	ND	mg/L	0.00050	0.00011	1		02/25/22 18:51		
Chromium	0.0011J	mg/L	0.0050	0.0011	1		02/25/22 18:51		
Cobalt	0.16	mg/L	0.0050	0.00039	1		02/25/22 18:51		
Lead	ND	mg/L	0.0010	0.00089	1		02/25/22 18:51		
Lithium	0.054	mg/L	0.030	0.00073	1		02/25/22 18:51		
Molybdenum	0.0036J	mg/L	0.010	0.00074	1		02/25/22 18:51		
Selenium	ND	mg/L	0.0050	0.0014	1		02/25/22 18:51		
Thallium	ND	mg/L	0.0010	0.00018	1		02/25/22 18:51		
7470 Mercury	Analytical	Method: EPA 7	470A Prep	paration Met	hod: EF	PA 7470A			
•		lytical Services							
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:30	02/22/22 09:54	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	€A				
Total Dissolved Solids	606	mg/L	20.0	20.0	1		02/17/22 17:02		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	3.2	mg/L	1.0	0.60	1		02/21/22 21:26	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/21/22 21:26		
Sulfate	305	mg/L	7.0	3.5	7		02/22/22 13:12		



Project: YATES AMA-R6
Pace Project No.: 92587090

Date: 04/11/2022 12:45 PM

Sample: AMA-EB-2	Lab ID:	92587090021	Collecte	ed: 02/10/22	2 12:46	Received: 02/	11/22 16:45 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
6010D ATL ICP	Analytical I	Method: EPA	6010D Pre	paration Met	thod: El	PA 3010A			
	Pace Analy	tical Services	s - Peachtre	e Corners, C	ЭΑ				
Calcium	ND	mg/L	1.0	0.12	1	02/24/22 10:47	02/25/22 01:23	7440-70-2	
6020 MET ICPMS	Analytical I	Method: EPA	6020B Pre	paration Met	hod: El	PA 3005A			
	Pace Analy	tical Services	s - Peachtre	e Corners, C	ЭΑ				
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 12:07	02/24/22 18:48	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 18:48	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	02/24/22 12:07	02/24/22 18:48	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/24/22 12:07	02/24/22 18:48	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/24/22 12:07	02/24/22 18:48	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/22 12:07	02/24/22 18:48	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 18:48	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/24/22 12:07	02/24/22 18:48	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 12:07	02/24/22 18:48	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/24/22 12:07	02/24/22 18:48	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/24/22 12:07	02/24/22 18:48	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/24/22 12:07	02/24/22 18:48	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 12:07	02/24/22 18:48	7440-28-0	
7470 Mercury	Analytical I	Method: EPA	7470A Prej	paration Met	hod: EF	PA 7470A			
·	Pace Analy	tical Services	s - Peachtre	e Corners, C	ЭΑ				
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:30	02/22/22 09:56	7439-97-6	
2540C Total Dissolved Solids	Analytical I	Method: SM 2	2540C-2015						
	Pace Analy	tical Services	s - Peachtre	e Corners, C	ЭΑ				
Total Dissolved Solids	19.0	mg/L	10.0	10.0	1		02/17/22 17:02		
300.0 IC Anions 28 Days	Analytical I	Method: EPA	300.0 Rev 2	2.1 1993					
•	Pace Analy	tical Services	s - Asheville						
Chloride	ND	mg/L	1.0	0.60	1		02/21/22 21:40	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/21/22 21:40	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/21/22 21:40	14808-79-8	



## **ANALYTICAL RESULTS**

Project: YATES AMA-R6
Pace Project No.: 92587090

Sample: AMA-FB-1	Lab ID:	92587090022	Collecte	ed: 02/10/22	2 15:02	Received: 02/	11/22 16:45 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
6010D ATL ICP	Analytical	Method: EPA	6010D Pre	paration Met	thod: El	PA 3010A			
	Pace Anal	ytical Services	- Peachtre	e Corners, C	ЭΑ				
Calcium	ND	mg/L	1.0	0.12	1	02/24/22 10:47	02/25/22 01:37	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Met	thod: EF	PA 3005A			
	Pace Anal	ytical Services	- Peachtre	e Corners, C	ЭΑ				
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 12:07	02/24/22 18:54	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 18:54	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	02/24/22 12:07	02/24/22 18:54	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/24/22 12:07	02/24/22 18:54	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/24/22 12:07	02/24/22 18:54	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/22 12:07	02/24/22 18:54	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 18:54	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/24/22 12:07	02/24/22 18:54	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 12:07	02/24/22 18:54	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/24/22 12:07	02/24/22 18:54	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/24/22 12:07	02/24/22 18:54	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/24/22 12:07	02/24/22 18:54	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 12:07	02/24/22 18:54	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Prep	paration Met	hod: EF	PA 7470A			
·	Pace Anal	ytical Services	- Peachtre	e Corners, C	ЭΑ				
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:30	02/22/22 09:59	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
		ytical Services			ЭΑ				
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/17/22 17:02		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
-	Pace Anal	ytical Services	- Asheville						
Chloride	ND	mg/L	1.0	0.60	1		02/22/22 00:36	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/22/22 00:36	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/22/22 00:36	14808-79-8	



Project: YATES AMA-R6
Pace Project No.: 92587090

Date: 04/11/2022 12:45 PM

Sample: AMA-FB-2	Lab ID:	92587090023	Collecte	ed: 02/10/2	2 16:00	Received: 02/	11/22 16:45 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
6010D ATL ICP	Analytical I	Method: EPA 6	010D Pre	paration Me	thod: El	PA 3010A			
	Pace Analy	tical Services	- Peachtre	e Corners, 0	GΑ				
Calcium	ND	mg/L	1.0	0.12	1	02/24/22 10:47	02/25/22 01:42	7440-70-2	
6020 MET ICPMS	Analytical I	Method: EPA 6	020B Pre	paration Met	thod: Ef	PA 3005A			
	Pace Analy	tical Services	- Peachtre	e Corners, 0	GΑ				
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 12:07	02/24/22 19:00	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 19:00	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	02/24/22 12:07	02/24/22 19:00	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/24/22 12:07	02/24/22 19:00	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/24/22 12:07	02/24/22 19:00	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/22 12:07	02/24/22 19:00	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 19:00	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/24/22 12:07	02/24/22 19:00	7440-48-4	
₋ead	ND	mg/L	0.0010	0.00089	1	02/24/22 12:07	02/24/22 19:00	7439-92-1	
_ithium	ND	mg/L	0.030	0.00073	1	02/24/22 12:07	02/24/22 19:00	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/24/22 12:07	02/24/22 19:00	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/24/22 12:07	02/24/22 19:00	7782-49-2	
Γhallium	ND	mg/L	0.0010	0.00018	1	02/24/22 12:07	02/24/22 19:00	7440-28-0	
7470 Mercury	Analytical I	Method: EPA 7	7470A Pre	paration Met	thod: EF	PA 7470A			
	Pace Analy	tical Services	- Peachtre	e Corners, 0	GΑ				
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:30	02/22/22 10:02	7439-97-6	
2540C Total Dissolved Solids	Analytical I	Method: SM 2	540C-2015						
	Pace Analy	tical Services	- Peachtre	e Corners, 0	GΑ				
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/17/22 17:02		
300.0 IC Anions 28 Days	-	Method: EPA 3 /tical Services							
Chloride	ND	mg/L	1.0	0.60	1		02/22/22 01:16	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/22/22 01:16		
Sulfate	ND	mg/L	1.0	0.50	1		02/22/22 01:16		



Project: YATES AMA-R6
Pace Project No.: 92587090

Date: 04/11/2022 12:45 PM

Sample: PZ-37D	Lab ID:	92587090024	Collecte	ed: 02/11/22	2 16:35	Received: 02/	/14/22 13:25 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	CUSTOME R				1		02/14/22 15:02		
рН	7.84	Std. Units			1		02/14/22 15:02		
6010D ATL ICP	Analytical	Method: EPA 6	010D Pre	paration Me	thod: Ef	PA 3010A			
	•	lytical Services		'					
Calcium	49.0	mg/L	1.0	0.12	1	02/24/22 10:47	02/25/22 02:44	7440-70-2	
6020 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	02/24/22 12:07	02/24/22 20:06	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1		02/24/22 20:06		
Barium	0.013	mg/L	0.0050	0.00067	1	02/24/22 12:07	02/24/22 20:06	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1		02/24/22 20:06		
Boron	0.44	mg/L	0.040	0.0086	1		02/24/22 20:06		
Cadmium	ND	mg/L	0.00050	0.00011	1		02/24/22 20:06		
Chromium	ND	mg/L	0.0050	0.0011	1		02/24/22 20:06		
Cobalt	ND ND	mg/L	0.0050	0.00011	1		02/24/22 20:06		
Lead	ND	mg/L	0.0030	0.00089	1		02/24/22 20:06		
Lithium	0.0087J	mg/L	0.030	0.0003	1		02/24/22 20:06		
	0.00873 0.0037J	J	0.030	0.00073	1		02/24/22 20:06		
Molybdenum		mg/L							
Selenium	ND	mg/L	0.0050	0.0014	1		02/24/22 20:06		
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 12:07	02/24/22 20:06	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	'470A Prep	paration Met	hod: EF	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, (	3A				
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:30	02/22/22 10:04	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 25	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, 0	βA				
Total Dissolved Solids	382	mg/L	10.0	10.0	1		02/18/22 17:46		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	2.1 1993					
-	Pace Ana	lytical Services	- Asheville						
Chloride	12.5	mg/L	1.0	0.60	1		02/22/22 02:10	16887-00-6	M1
Fluoride	0.17	mg/L	0.10	0.050	1		02/22/22 02:10	16984-48-8	M1
Sulfate	115	mg/L	3.0	1.5	3		02/22/22 13:55		



Project: YATES AMA-R6
Pace Project No.: 92587090

Date: 04/11/2022 12:45 PM

Sample: PZ-52D	Lab ID:	92587090025	Collecte	ed: 02/11/22	2 14:00	Received: 02/	14/22 13:25 M	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte	<b>;</b>					
Performed by	CUSTOME R				1		02/14/22 15:02		
рН	6.40	Std. Units			1		02/14/22 15:02		
6010D ATL ICP	•	Method: EPA 6				PA 3010A			
Calcium	27.3	mg/L	1.0	0.12	1	02/24/22 10:47	02/25/22 02:49	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	020B Pre	paration Met	thod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, 0	3A				
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 12:07	02/24/22 20:12	7440-36-0	
Arsenic	0.0014J	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 20:12	7440-38-2	В
Barium	0.032	mg/L	0.0050	0.00067	1	02/24/22 12:07	02/24/22 20:12	7440-39-3	
Beryllium	0.000059J	mg/L	0.00050	0.000054	1	02/24/22 12:07	02/24/22 20:12	7440-41-7	
Boron	0.84	mg/L	0.040	0.0086	1		02/24/22 20:12		
Cadmium	ND	mg/L	0.00050	0.00011	1		02/24/22 20:12		
Chromium	0.0011J	mg/L	0.0050	0.0011	1		02/24/22 20:12		
Cobalt	0.0011J	mg/L	0.0050	0.00039	1		02/24/22 20:12		
Lead	0.0031	mg/L	0.0010	0.00089	1		02/24/22 20:12		
Lithium	0.015J	mg/L	0.030	0.00073	1		02/24/22 20:12		
Molybdenum	0.011	mg/L	0.010	0.00073	1		02/24/22 20:12		
Selenium	0.0025J	mg/L	0.0050	0.00074	1		02/24/22 20:12		
Thallium	0.00233 ND	mg/L	0.0030	0.0014	1		02/24/22 20:12		
		-					02/24/22 20.12	7440 20 0	
7470 Mercury	•	Method: EPA 7 Ilytical Services				A 7470A			
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:30	02/22/22 10:07	7439-97-6	
2540C Total Dissolved Solids	•	Method: SM 25			ΒA				
Total Dissolved Solids	456	mg/L	10.0	10.0	1		02/18/22 17:46	i	
300.0 IC Anions 28 Days	•	Method: EPA 3		2.1 1993					
Chloride	6.7	mg/L	1.0	0.60	1		02/22/22 02:50	16887-00-6	
Fluoride	0.10	mg/L	0.10	0.050	1		02/22/22 02:50		
Sulfate	209	ŭ	5.0	2.5	5		02/22/22 02:30		
Juliale	209	mg/L	5.0	2.5	ວ		02/22/22 20:38	14000-79-0	



#### **QUALITY CONTROL DATA**

Project: YATES AMA-R6

LABORATORY CONTROL SAMPLE:

Date: 04/11/2022 12:45 PM

92587090 Pace Project No.:

QC Batch: 680455 Analysis Method: EPA 6010D QC Batch Method: **EPA 3010A** Analysis Description: 6010D ATL

> Pace Analytical Services - Peachtree Corners, GA Laboratory:

92587090001, 92587090002, 92587090003, 92587090004, 92587090005, 92587090006, 92587090007, Associated Lab Samples:

92587090008, 92587090009, 92587090010, 92587090011, 92587090012, 92587090013, 92587090014,

92587090015, 92587090016, 92587090017, 92587090018, 92587090019

METHOD BLANK: 3560249 Matrix: Water

Associated Lab Samples: 92587090001, 92587090002, 92587090003, 92587090004, 92587090005, 92587090006, 92587090007,

92587090008, 92587090009, 92587090010, 92587090011, 92587090012, 92587090013, 92587090014,

92587090015, 92587090016, 92587090017, 92587090018, 92587090019

Blank Reporting Limit Qualifiers Parameter Units Result MDL Analyzed Calcium mg/L ND 1.0 0.12 02/24/22 22:15

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Calcium mg/L 1.0 103 80-120

MS

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3560251 3560252

3560250

MSD 92587090003 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits **RPD** RPD Qual 20 M1 Calcium 14.6 15.5 81 75-125 mg/L 15.3 70

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.



#### **QUALITY CONTROL DATA**

Project: YATES AMA-R6

Pace Project No.: 92587090

Calcium

Date: 04/11/2022 12:45 PM

QC Batch: 680603 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92587090020, 92587090021, 92587090022, 92587090023, 92587090024, 92587090025

METHOD BLANK: 3560577 Matrix: Water

Associated Lab Samples: 92587090020, 92587090021, 92587090022, 92587090023, 92587090024, 92587090025

 Parameter
 Units
 Result
 Limit
 MDL
 Analyzed
 Qualifiers

 mg/L
 0.25J
 1.0
 0.12
 02/25/22 00:50

LABORATORY CONTROL SAMPLE: 3560578

Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units Calcium 1.0 101 80-120 mg/L

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3560579 3560580

MSD MS 92587319001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Conc. Result Result % Rec % Rec **RPD** RPD Qual Result Conc. Limits 20 M1 Calcium mg/L 73.3 76.6 76.5 326 322 75-125

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.



#### **QUALITY CONTROL DATA**

Project: YATES AMA-R6
Pace Project No.: 92587090

QC Batch: 680454 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92587090001, 92587090002, 92587090003, 92587090004, 92587090005, 92587090006, 92587090007,

92587090008, 92587090009, 92587090010, 92587090011, 92587090012, 92587090013, 92587090014,

92587090015, 92587090016, 92587090017, 92587090018, 92587090019, 92587090020

METHOD BLANK: 3560242 Matrix: Water

Associated Lab Samples: 92587090001, 92587090002, 92587090003, 92587090004, 92587090005, 92587090006, 92587090007,

92587090008, 92587090009, 92587090010, 92587090011, 92587090012, 92587090013, 92587090014,

92587090015, 92587090016, 92587090017, 92587090018, 92587090019, 92587090020

		Blank	Reporting			
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/25/22 15:17	_
Arsenic	mg/L	ND	0.0050	0.0011	02/25/22 15:17	
Barium	mg/L	ND	0.0050	0.00067	02/25/22 15:17	
Beryllium	mg/L	ND	0.00050	0.000054	02/25/22 15:17	
Boron	mg/L	ND	0.040	0.0086	02/25/22 15:17	
Cadmium	mg/L	ND	0.00050	0.00011	02/25/22 15:17	
Chromium	mg/L	ND	0.0050	0.0011	02/25/22 15:17	
Cobalt	mg/L	ND	0.0050	0.00039	02/25/22 15:17	
Lead	mg/L	ND	0.0010	0.00089	02/25/22 15:17	
Lithium	mg/L	ND	0.030	0.00073	02/25/22 15:17	
Molybdenum	mg/L	ND	0.010	0.00074	02/25/22 15:17	
Selenium	mg/L	ND	0.0050	0.0014	02/25/22 15:17	
Thallium	mg/L	ND	0.0010	0.00018	02/25/22 15:17	

LABORATORY CONTROL SAMPLE:	3560243					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Antimony	mg/L	0.1	0.11	107	80-120	_
Arsenic	mg/L	0.1	0.098	98	80-120	
Barium	mg/L	0.1	0.10	101	80-120	
Beryllium	mg/L	0.1	0.11	108	80-120	
Boron	mg/L	1	1.0	104	80-120	
Cadmium	mg/L	0.1	0.10	103	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.099	99	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.11	108	80-120	
Molybdenum	mg/L	0.1	0.10	103	80-120	
Selenium	mg/L	0.1	0.10	102	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

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



## **QUALITY CONTROL DATA**

Project: YATES AMA-R6
Pace Project No.: 92587090

MATRIX SPIKE & MATRIX	SPIKE DUPL	ICATE: 3560	244 MS	MSD	3560245							
		92587090002	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	0.10	0.11	102	109	75-125	6	20	
Arsenic	mg/L	0.0021J	0.1	0.1	0.10	0.10	99	102	75-125	2	20	
Barium	mg/L	0.021	0.1	0.1	0.12	0.12	96	103	75-125	6	20	
Beryllium	mg/L	0.0016	0.1	0.1	0.11	0.12	106	115	75-125	7	20	
Boron	mg/L	4.0	1	1	5.1	5.2	107	121	75-125	3	20	
Cadmium	mg/L	0.00012J	0.1	0.1	0.10	0.10	101	104	75-125	3	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.11	101	106	75-125	5	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	102	104	75-125	2	20	
Lead	mg/L	ND	0.1	0.1	0.096	0.10	96	102	75-125	6	20	
Lithium	mg/L	0.0023J	0.1	0.1	0.11	0.12	103	113	75-125	9	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.11	101	105	75-125	4	20	
Selenium	mg/L	0.031	0.1	0.1	0.13	0.13	100	104	75-125	3	20	
Thallium	mg/L	ND	0.1	0.1	0.096	0.10	96	101	75-125	5	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.



#### **QUALITY CONTROL DATA**

Project: YATES AMA-R6

Pace Project No.: 92587090

Date: 04/11/2022 12:45 PM

QC Batch: 680607 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92587090021, 92587090022, 92587090023, 92587090024, 92587090025

METHOD BLANK: 3560596 Matrix: Water

Associated Lab Samples: 92587090021, 92587090022, 92587090023, 92587090024, 92587090025

_		Blank	Reporting			
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/24/22 17:42	
Arsenic	mg/L	0.0021J	0.0050	0.0011	02/24/22 17:42	
Barium	mg/L	ND	0.0050	0.00067	02/24/22 17:42	
Beryllium	mg/L	ND	0.00050	0.000054	02/24/22 17:42	
Boron	mg/L	ND	0.040	0.0086	02/24/22 17:42	
Cadmium	mg/L	ND	0.00050	0.00011	02/24/22 17:42	
Chromium	mg/L	ND	0.0050	0.0011	02/24/22 17:42	
Cobalt	mg/L	ND	0.0050	0.00039	02/24/22 17:42	
Lead	mg/L	ND	0.0010	0.00089	02/24/22 17:42	
Lithium	mg/L	ND	0.030	0.00073	02/24/22 17:42	
Molybdenum	mg/L	ND	0.010	0.00074	02/24/22 17:42	
Selenium	mg/L	ND	0.0050	0.0014	02/24/22 17:42	
Thallium	mg/L	ND	0.0010	0.00018	02/24/22 17:42	

LABORATORY CONTROL SAMPLE:	3560597					
		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	0.10	100	80-120	
Barium	mg/L	0.1	0.10	103	80-120	
Beryllium	mg/L	0.1	0.10	104	80-120	
Boron	mg/L	1	1.0	103	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.11	106	80-120	
Cobalt	mg/L	0.1	0.10	103	80-120	
Lead	mg/L	0.1	0.10	102	80-120	
Lithium	mg/L	0.1	0.10	100	80-120	
Molybdenum	mg/L	0.1	0.10	103	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Thallium	mg/L	0.1	0.10	102	80-120	

MATRIX SPIKE & MATRIX SP	IKE DUPL	ICATE: 3560	598		3560599							
		92587319001	MS Spike	MSD 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	0.10	0.10	101	105	75-125	3	20	
Arsenic	mg/L	ND	0.1	0.1	0.098	0.10	98	102	75-125	4	20	

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

#### **REPORT OF LABORATORY ANALYSIS**



## **QUALITY CONTROL DATA**

Project: YATES AMA-R6
Pace Project No.: 92587090

MATRIX SPIKE & MATRIX	SPIKE DUPLI	CATE: 3560	598 MS	MSD	3560599							
Parameter	Units	92587319001 Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.053	0.1	0.1	0.16	0.16	103	110	75-125	5	20	
Beryllium	mg/L	ND	0.1	0.1	0.097	0.10	97	102	75-125	5	20	
Boron	mg/L	0.19	1	1	1.2	1.2	100	105	75-125	4	20	
Cadmium	mg/L	ND	0.1	0.1	0.097	0.10	97	102	75-125	5	20	
Chromium	mg/L	0.0016J	0.1	0.1	0.10	0.11	100	104	75-125	4	20	
Cobalt	mg/L	ND	0.1	0.1	0.099	0.10	99	101	75-125	2	20	
Lead	mg/L	ND	0.1	0.1	0.097	0.098	97	98	75-125	1	20	
Lithium	mg/L	ND	0.1	0.1	0.094	0.098	94	98	75-125	4	20	
Molybdenum	mg/L	0.0012J	0.1	0.1	0.095	0.10	94	100	75-125	6	20	
Selenium	mg/L	0.0015J	0.1	0.1	0.098	0.099	97	98	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.098	0.098	98	98	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.



Mercury

Mercury

Date: 04/11/2022 12:45 PM

#### **QUALITY CONTROL DATA**

YATES AMA-R6 Project: Pace Project No.: 92587090

LABORATORY CONTROL SAMPLE:

QC Batch: 678404 Analysis Method: EPA 7470A QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury

> Laboratory: Pace Analytical Services - Peachtree Corners, GA

92587090001, 92587090002, 92587090003, 92587090004, 92587090005 Associated Lab Samples:

METHOD BLANK: Matrix: Water

Associated Lab Samples: 92587090001, 92587090002, 92587090003, 92587090004, 92587090005

> Blank Reporting Qualifiers Parameter Units Result Limit MDL Analyzed ND 0.00020 0.00013 02/16/22 13:25 mg/L

3550197

Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units Mercury mg/L 0.0025 0.0021 86 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3550198 3550199

mg/L

ND

0.0025

MSD MS 92586436031 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Conc. Conc. Result Result **RPD** RPD Qual Result % Rec % Rec Limits

0.0020

0.0023

78

93

75-125

18

20

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.



Project: YATES AMA-R6

Pace Project No.: 92587090

Date: 04/11/2022 12:45 PM

QC Batch: 679675 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92587090008, 92587090009, 92587090010, 92587090011, 92587090012, 92587090013

METHOD BLANK: 3556124 Matrix: Water

Associated Lab Samples: 92587090008, 92587090009, 92587090010, 92587090011, 92587090012, 92587090013

Blank Reporting
Parameter Units Result Limit MDL Analyzed Qualifiers

Mercury mg/L ND 0.00020 0.00013 02/22/22 10:33

LABORATORY CONTROL SAMPLE: 3556125

Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units mg/L Mercury 0.0025 0.0027 108 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3556126 3556127

MS MSD

92587091020 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Conc. Conc. Result Result **RPD** RPD Qual Result % Rec % Rec Limits 0.0025 Mercury mg/L ND 0.0025 0.0024 0.0026 96 101 75-125 5 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: YATES AMA-R6

Pace Project No.: 92587090

Date: 04/11/2022 12:45 PM

QC Batch: 679677 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92587090006, 92587090007, 92587090014, 92587090015, 92587090016, 92587090017, 92587090018,

92587090019, 92587090020, 92587090021, 92587090022, 92587090023, 92587090024, 92587090025

METHOD BLANK: 3556138 Matrix: Water

Associated Lab Samples: 92587090006, 92587090007, 92587090014, 92587090015, 92587090016, 92587090017, 92587090018,

92587090019, 92587090020, 92587090021, 92587090022, 92587090023, 92587090024, 92587090025

Blank Reporting

 Parameter
 Units
 Result
 Limit
 MDL
 Analyzed
 Qualifiers

 Mercury
 mg/L
 ND
 0.00020
 0.00013
 02/22/22 09:19

LABORATORY CONTROL SAMPLE: 3556139

LCS LCS % Rec Spike Result % Rec Limits Qualifiers Parameter Units Conc. Mercury mg/L 0.0025 0.0027 106 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3556140 3556141

MS MSD

92587090014 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD RPD Qual ND 0.0025 0.0026 20 Mercury 0.0025 0.0026 102 102 75-125 0 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: YATES AMA-R6
Pace Project No.: 92587090

QC Batch: 678110 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: 92587090001, 92587090002, 92587090003, 92587090004, 92587090005

METHOD BLANK: 3548928 Matrix: Water

Associated Lab Samples: 92587090001, 92587090002, 92587090003, 92587090004, 92587090005

Blank Reporting
Parameter Units Result Limit MDL Analyzed Qualifiers

Total Dissolved Solids mg/L ND 10.0 02/14/22 15:13

LABORATORY CONTROL SAMPLE: 3548929

Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units mg/L **Total Dissolved Solids** 379 95 80-120

SAMPLE DUPLICATE: 3548930

Parameter Units Pesult Result RPD Max Result RPD Qualifiers

Total Dissolved Solids mg/L 299 297 1 25

SAMPLE DUPLICATE: 3548931

Date: 04/11/2022 12:45 PM

Parameter Units Pesult Result RPD Max Result RPD Qualifiers

Total Dissolved Solids mg/L ND ND 25

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



Project: YATES AMA-R6
Pace Project No.: 92587090

QC Batch: 679091 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: 92587090006, 92587090007

METHOD BLANK: 3553375 Matrix: Water

Associated Lab Samples: 92587090006, 92587090007

Blank Reporting
Parameter Units Result Limit MDL Analyzed Qualifiers

Total Dissolved Solids mg/L ND 10.0 10.0 02/17/22 16:05

LABORATORY CONTROL SAMPLE: 3553376

Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units **Total Dissolved Solids** mg/L 400 374 94 80-120

SAMPLE DUPLICATE: 3553377

92587319023 Dup Max Parameter Units Result Result **RPD RPD** Qualifiers 299 **Total Dissolved Solids** mg/L 0 300 25

SAMPLE DUPLICATE: 3553378

Date: 04/11/2022 12:45 PM

92587089012 Dup Max RPD RPD Parameter Units Result Result Qualifiers Total Dissolved Solids 190 2 mg/L 186 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: YATES AMA-R6
Pace Project No.: 92587090

Parameter

**Total Dissolved Solids** 

Date: 04/11/2022 12:45 PM

QC Batch: 679094 Analysis Method: SM 2540C-2015

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

Laboratory: Pace Analytical Services - Peachtree Corners, GA

% Rec

91

Limits

80-120

Qualifiers

Associated Lab Samples: 92587090008, 92587090009, 92587090010, 92587090011, 92587090012, 92587090013, 92587090014,

92587090015, 92587090016, 92587090017, 92587090018, 92587090019, 92587090020, 92587090021,

92587090022, 92587090023

METHOD BLANK: 3553381 Matrix: Water

Associated Lab Samples: 92587090008, 92587090009, 92587090010, 92587090011, 92587090012, 92587090013, 92587090014,

Conc.

400

92587090015, 92587090016, 92587090017, 92587090018, 92587090019, 92587090020, 92587090021,

92587090022, 92587090023

Units

mg/L

Blank Reporting MDL Qualifiers Parameter Units Result Limit Analyzed Total Dissolved Solids mg/L ND 10.0 10.0 02/17/22 17:00 LABORATORY CONTROL SAMPLE: 3553382 Spike LCS LCS % Rec

Result

365

SAMPLE DUPLICATE: 3553383 92587090008 Dup Max Parameter Units Result Result **RPD RPD** Qualifiers Total Dissolved Solids 772 800 4 25 mg/L

SAMPLE DUPLICATE: 3553384 92587090019 Dup Max Parameter Units Result Result **RPD RPD** Qualifiers 48.0 Total Dissolved Solids mg/L 58.0 19 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: YATES AMA-R6
Pace Project No.: 92587090

QC Batch: 679320 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: 92587090024, 92587090025

METHOD BLANK: 3554464 Matrix: Water

Associated Lab Samples: 92587090024, 92587090025

Blank Reporting
Parameter Units Result Limit MDL Analyzed Qualifiers

Total Dissolved Solids mg/L ND 10.0 10.0 02/18/22 17:46

LABORATORY CONTROL SAMPLE: 3554465

Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units **Total Dissolved Solids** mg/L 400 368 92 80-120

SAMPLE DUPLICATE: 3554466

92587090024 Dup Max Parameter Units Result Result **RPD RPD** Qualifiers 382 **Total Dissolved Solids** mg/L 3 370 25

SAMPLE DUPLICATE: 3554467

Date: 04/11/2022 12:45 PM

92587881022 Dup Max RPD RPD Parameter Units Result Result Qualifiers Total Dissolved Solids 618 588 mg/L 5 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: YATES AMA-R6

LABORATORY CONTROL SAMPLE: 2540504

Date: 04/11/2022 12:45 PM

Pace Project No.: 92587090

QC Batch: 678235 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: 92587090001, 92587090002, 92587090003, 92587090004, 92587090005

METHOD BLANK: 3549593 Matrix: Water

Associated Lab Samples: 92587090001, 92587090002, 92587090003, 92587090004, 92587090005

		Blank	Reporting			
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/15/22 01:58	
Fluoride	mg/L	ND	0.10	0.050	02/15/22 01:58	
Sulfate	mg/L	ND	1.0	0.50	02/15/22 01:58	

LABORATORY CONTROL SAMPLE:	3549594					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Chloride	mg/L	50	51.8	104	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	51.0	102	90-110	

MATRIX SPIKE & MATRIX SP	IKE DUPL	ICATE: 3549	595		3549596							
			MS	MSD								
		92585602018	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	10.2	50	50	64.0	63.6	108	107	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.7	2.7	106	105	90-110	1	10	
Sulfate	mg/L	20.0	50	50	73.7	73.7	107	107	90-110	0	10	

MATRIX SPIKE & MATRIX SP		3549598										
			MS	MSD								
		92587089005	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	52.3	53.6	105	107	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	104	107	90-110	3	10	
Sulfate	mg/L	ND	50	50	52.2	53.5	104	107	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.



Date: 04/11/2022 12:45 PM

# **QUALITY CONTROL DATA**

Project: YATES AMA-R6
Pace Project No.: 92587090

QC Batch: 679365 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: 92587090006, 92587090007, 92587090008, 92587090009, 92587090010, 92587090011, 92587090012,

 $92587090013,\,92587090014,\,92587090015,\,92587090016$ 

METHOD BLANK: 3554816 Matrix: Water

Associated Lab Samples: 92587090006, 92587090007, 92587090008, 92587090009, 92587090010, 92587090011, 92587090012,

92587090013, 92587090014, 92587090015, 92587090016

		Blank	Reporting			
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/19/22 13:13	
Fluoride	mg/L	ND	0.10	0.050	02/19/22 13:13	
Sulfate	mg/L	ND	1.0	0.50	02/19/22 13:13	

LABORATORY CONTROL SAMPLE:	3554817					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Chloride	mg/L	50	51.6	103	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	50	51.5	103	90-110	

MATRIX SPIKE & MATRIX SP		3554819										
			MS	MSD								
		92587091018	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	4.4	50	50	54.8	55.6	101	102	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	104	106	90-110	2	10	
Sulfate	mg/L	2.4	50	50	52.5	53.6	100	102	90-110	2	10	

MATRIX SPIKE & MATRIX SP		3554821										
			MS	MSD								
		92587090007	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	4.2	50	50	55.9	56.1	103	104	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	3.0	3.1	121	123	90-110	1	10	M1
Sulfate	mg/L	452	50	50	488	491	73	78	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.



Date: 04/11/2022 12:45 PM

# **QUALITY CONTROL DATA**

Project: YATES AMA-R6
Pace Project No.: 92587090

QC Batch: 679850 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: 92587090017, 92587090018, 92587090019, 92587090020, 92587090021, 92587090022, 92587090023,

92587090024, 92587090025

METHOD BLANK: 3557210 Matrix: Water

Associated Lab Samples: 92587090017, 92587090018, 92587090019, 92587090020, 92587090021, 92587090022, 92587090023,

92587090024, 92587090025

		Blank	Reporting			
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/21/22 19:52	
Fluoride	mg/L	ND	0.10	0.050	02/21/22 19:52	
Sulfate	mg/L	ND	1.0	0.50	02/21/22 19:52	

LABORATORY CONTROL SAMPLE:	3557211					
		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	2.5	101	90-110	
Sulfate	mg/L	50	50.5	101	90-110	

MATRIX SPIKE & MATRIX SP		3557213										
			MS	MSD								
	(	92587090017	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	8.7	50	50	62.9	64.5	108	112	90-110	3	10	M1
Fluoride	mg/L	ND	2.5	2.5	2.9	3.0	115	119	90-110	3	10	M1
Sulfate	mg/L	ND	50	50	56.2	57.3	112	114	90-110	2	10	M1

MATRIX SPIKE & MATRIX SF		3557215										
			MS	MSD								
		92587090024	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	12.5	50	50	66.6	68.4	108	112	90-110	3	10	M1
Fluoride	mg/L	0.17	2.5	2.5	2.9	3.0	108	112	90-110	4	10	M1
Sulfate	mg/L	115	50	50	163	165	95	99	90-110	1	10	

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



# **QUALIFIERS**

Project: YATES AMA-R6
Pace Project No.: 92587090

## **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: 04/11/2022 12:45 PM

B Analyte was detected in the associated method blank.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.



Date: 04/11/2022 12:45 PM

# **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: YATES AMA-R6
Pace Project No.: 92587090

_ab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch
92587090001	YGWC-49				
92587090002	YGWC-41				
2587090004	YGWC-43				
2587090006	YAMW-5				
2587090007	PZ-37				
2587090009	PZ-51				
2587090010	YAMW-1				
2587090011	PZ-35				
2587090012	YAMW-4				
2587090013	YGWC-23S				
2587090014	YGWC-38				
2587090015	YGWC-42				
2587090016	YGWC-24SA				
2587090018	YGWC-36A				
2587090019	YAMW-2				
2587090020	YAMW-3				
2587090024	PZ-37D				
2587090025	PZ-52D				
2587090001	YGWC-49	EPA 3010A	680455	EPA 6010D	680679
2587090002	YGWC-41	EPA 3010A	680455	EPA 6010D	680679
2587090003	AMA-DUP-2	EPA 3010A	680455	EPA 6010D	680679
2587090004	YGWC-43	EPA 3010A	680455	EPA 6010D	680679
2587090005	AMA-EB-1	EPA 3010A	680455	EPA 6010D	680679
2587090006	YAMW-5	EPA 3010A	680455	EPA 6010D	680679
2587090007	PZ-37	EPA 3010A	680455	EPA 6010D	680679
2587090008	AMA-DUP-4	EPA 3010A	680455	EPA 6010D	680679
2587090009	PZ-51	EPA 3010A	680455	EPA 6010D	680679
2587090010	YAMW-1	EPA 3010A	680455	EPA 6010D	680679
2587090011	PZ-35	EPA 3010A	680455	EPA 6010D	680679
2587090012	YAMW-4	EPA 3010A	680455	EPA 6010D	680679
587090013	YGWC-23S	EPA 3010A	680455	EPA 6010D	680679
2587090014	YGWC-38	EPA 3010A	680455	EPA 6010D	680679
2587090015	YGWC-42	EPA 3010A	680455	EPA 6010D	680679
2587090016	YGWC-24SA	EPA 3010A	680455	EPA 6010D	680679
2587090017	AMA-DUP-1	EPA 3010A	680455	EPA 6010D	680679
2587090018	YGWC-36A	EPA 3010A	680455	EPA 6010D	680679
2587090019	YAMW-2	EPA 3010A	680455	EPA 6010D	680679
2587090020	YAMW-3	EPA 3010A	680603	EPA 6010D	680696
2587090021	AMA-EB-2	EPA 3010A	680603	EPA 6010D	680696
2587090022	AMA-FB-1	EPA 3010A	680603	EPA 6010D	680696
2587090023	AMA-FB-2	EPA 3010A	680603	EPA 6010D	680696
587090024	PZ-37D	EPA 3010A	680603	EPA 6010D	680696
2587090025	PZ-52D	EPA 3010A	680603	EPA 6010D	680696
2587090001	YGWC-49	EPA 3005A	680454	EPA 6020B	680691
2587090002	YGWC-41	EPA 3005A	680454	EPA 6020B	680691
2587090003	AMA-DUP-2	EPA 3005A	680454	EPA 6020B	680691
2587090004	YGWC-43	EPA 3005A	680454	EPA 6020B	680691

# **REPORT OF LABORATORY ANALYSIS**

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# **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: YATES AMA-R6
Pace Project No.: 92587090

Date: 04/11/2022 12:45 PM

ab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2587090005	AMA-EB-1	EPA 3005A	680454	EPA 6020B	680691
2587090006	YAMW-5	EPA 3005A	680454	EPA 6020B	680691
2587090007	PZ-37	EPA 3005A	680454	EPA 6020B	680691
2587090008	AMA-DUP-4	EPA 3005A	680454	EPA 6020B	680691
2587090009	PZ-51	EPA 3005A	680454	EPA 6020B	680691
2587090010	YAMW-1	EPA 3005A	680454	EPA 6020B	680691
2587090011	PZ-35	EPA 3005A	680454	EPA 6020B	680691
2587090012	YAMW-4	EPA 3005A	680454	EPA 6020B	680691
2587090013	YGWC-23S	EPA 3005A	680454	EPA 6020B	680691
2587090014	YGWC-38	EPA 3005A	680454	EPA 6020B	680691
2587090015	YGWC-42	EPA 3005A	680454	EPA 6020B	680691
2587090016	YGWC-24SA	EPA 3005A	680454	EPA 6020B	680691
2587090017	AMA-DUP-1	EPA 3005A	680454	EPA 6020B	680691
2587090018	YGWC-36A	EPA 3005A	680454	EPA 6020B	680691
2587090019	YAMW-2	EPA 3005A	680454	EPA 6020B	680691
2587090019	YAMW-3	EPA 3005A	680454	EPA 6020B	680691
2587090021	AMA-EB-2	EPA 3005A	680607	EPA 6020B	680745
2587090022	AMA-FB-1	EPA 3005A	680607	EPA 6020B	680745
2587090023	AMA-FB-2	EPA 3005A	680607	EPA 6020B	680745
2587090024	PZ-37D	EPA 3005A	680607	EPA 6020B	680745
587090025	PZ-52D	EPA 3005A	680607	EPA 6020B	680745
2587090001	YGWC-49	EPA 7470A	678404	EPA 7470A	678664
2587090002	YGWC-41	EPA 7470A	678404	EPA 7470A	678664
2587090003	AMA-DUP-2	EPA 7470A	678404	EPA 7470A	678664
2587090004	YGWC-43	EPA 7470A	678404	EPA 7470A	678664
2587090005	AMA-EB-1	EPA 7470A	678404	EPA 7470A	678664
2587090006	YAMW-5	EPA 7470A	679677	EPA 7470A	679818
2587090007	PZ-37	EPA 7470A	679677	EPA 7470A	679818
2587090008	AMA-DUP-4	EPA 7470A	679675	EPA 7470A	679921
2587090009	PZ-51	EPA 7470A	679675	EPA 7470A	679921
2587090010	YAMW-1	EPA 7470A	679675	EPA 7470A	679921
2587090011	PZ-35	EPA 7470A	679675	EPA 7470A	679921
587090012	YAMW-4	EPA 7470A	679675	EPA 7470A	679921
2587090013	YGWC-23S	EPA 7470A	679675	EPA 7470A	679921
2587090014	YGWC-38	EPA 7470A	679677	EPA 7470A	679818
2587090015	YGWC-42	EPA 7470A	679677	EPA 7470A	679818
2587090016	YGWC-24SA	EPA 7470A	679677	EPA 7470A	679818
587090017	AMA-DUP-1	EPA 7470A	679677	EPA 7470A	679818
587090018	YGWC-36A	EPA 7470A	679677	EPA 7470A	679818
587090019	YAMW-2	EPA 7470A	679677	EPA 7470A	679818
587090020	YAMW-3	EPA 7470A	679677	EPA 7470A	679818
2587090021	AMA-EB-2	EPA 7470A	679677	EPA 7470A	679818
587090022	AMA-FB-1	EPA 7470A	679677	EPA 7470A	679818
587090023	AMA-FB-2	EPA 7470A	679677	EPA 7470A	679818
2587090024	PZ-37D	EPA 7470A	679677	EPA 7470A	679818
2587090025	PZ-52D	EPA 7470A	679677	EPA 7470A	679818



# **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: YATES AMA-R6
Pace Project No.: 92587090

Date: 04/11/2022 12:45 PM

∟ab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytic Batch
2587090001	YGWC-49	SM 2540C-2015	678110	_	
2587090002	YGWC-41	SM 2540C-2015	678110		
2587090003	AMA-DUP-2	SM 2540C-2015	678110		
2587090004	YGWC-43	SM 2540C-2015	678110		
2587090005	AMA-EB-1	SM 2540C-2015	678110		
2587090006	YAMW-5	SM 2540C-2015	679091		
2587090007	PZ-37	SM 2540C-2015	679091		
2587090008	AMA-DUP-4	SM 2540C-2015	679094		
2587090009	PZ-51	SM 2540C-2015	679094		
2587090010	YAMW-1	SM 2540C-2015	679094		
2587090011	PZ-35	SM 2540C-2015	679094		
2587090012	YAMW-4	SM 2540C-2015	679094		
2587090013	YGWC-23S	SM 2540C-2015	679094		
2587090014	YGWC-38	SM 2540C-2015	679094		
2587090015	YGWC-42	SM 2540C-2015	679094		
2587090016	YGWC-24SA	SM 2540C-2015	679094		
2587090017	AMA-DUP-1	SM 2540C-2015	679094		
2587090018	YGWC-36A	SM 2540C-2015	679094		
2587090019	YAMW-2	SM 2540C-2015	679094		
2587090020	YAMW-3	SM 2540C-2015	679094		
2587090021	AMA-EB-2	SM 2540C-2015	679094		
2587090022	AMA-FB-1	SM 2540C-2015	679094		
2587090023	AMA-FB-2	SM 2540C-2015	679094		
2587090024	PZ-37D	SM 2540C-2015	679320		
2587090025	PZ-52D	SM 2540C-2015	679320		
2587090001	YGWC-49	EPA 300.0 Rev 2.1 1993	678235		
2587090002	YGWC-41	EPA 300.0 Rev 2.1 1993	678235		
2587090003	AMA-DUP-2	EPA 300.0 Rev 2.1 1993	678235		
2587090004	YGWC-43	EPA 300.0 Rev 2.1 1993	678235		
2587090005	AMA-EB-1	EPA 300.0 Rev 2.1 1993	678235		
2587090006	YAMW-5	EPA 300.0 Rev 2.1 1993	679365		
2587090007	PZ-37	EPA 300.0 Rev 2.1 1993	679365		
2587090008	AMA-DUP-4	EPA 300.0 Rev 2.1 1993	679365		
2587090009	PZ-51	EPA 300.0 Rev 2.1 1993	679365		
2587090010	YAMW-1	EPA 300.0 Rev 2.1 1993	679365		
2587090011	PZ-35	EPA 300.0 Rev 2.1 1993	679365		
2587090012	YAMW-4	EPA 300.0 Rev 2.1 1993	679365		
2587090013	YGWC-23S	EPA 300.0 Rev 2.1 1993	679365		
2587090014	YGWC-38	EPA 300.0 Rev 2.1 1993	679365		
258709001 <del>4</del> 2587090015	YGWC-42	EPA 300.0 Rev 2.1 1993	679365		
2587090015 2587090016	YGWC-24SA	EPA 300.0 Rev 2.1 1993	679365		
2587090017	AMA-DUP-1	EPA 300.0 Rev 2.1 1993	679850		
2587090017 2587090018	YGWC-36A	EPA 300.0 Rev 2.1 1993	679850		
2587090019 2587090019	YAMW-2	EPA 300.0 Rev 2.1 1993	679850		
2587090019 2587090020	YAMW-3	EPA 300.0 Rev 2.1 1993 EPA 300.0 Rev 2.1 1993	679850		
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# **REPORT OF LABORATORY ANALYSIS**

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Date: 04/11/2022 12:45 PM

# **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: YATES AMA-R6
Pace Project No.: 92587090

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587090022	AMA-FB-1	EPA 300.0 Rev 2.1 1993	679850		
92587090023	AMA-FB-2	EPA 300.0 Rev 2.1 1993	679850		
92587090024	PZ-37D	EPA 300.0 Rev 2.1 1993	679850		
92587090025	PZ-52D	EPA 300.0 Rev 2.1 1993	679850		

# Pace Analytical

Project Manager SRF Review:

# Document Name:

Sample Condition Upon Receipt (SCUR)

Document No.:

Document Revised: November 15, 2021 Page 1 of 2

Issuing Authority:

Pace Carolinas Quality Office F-CAR-C5-033-Rev.08 Laboratory receiving samples: Mechanicsville Atlanta Kernersville Asheville Eden Greenwood Huntersville Raleigh Client Name: Sample Condition Project #: **Upon Receipt** Client Fed Ex Courier: Commercial Pace Yes No Seals Intact? **Custody Seal Present?** Date/Initials Person Examining Contents: Biological Tissue Frozen? Other None Bubble Bags Packing Material: Bubble Wrap Yes No MA Thermometer: Pwet ☐ Blue None Type of Ice: Correction Factor: Temp should be above freezing to 6°C Add/Subtract (°C) Cooler Temp: Samples out of temp criteria. Samples on ice, cooling process has begun Cooler Temp Corrected (°C): USDA Regulated Soil ( N/A, water sample) Did samples originate from a foreign source (internationally, Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? including Hawaii and Puerto Rico)? Yes Yes No Comments/Discrepancy: 1. □N/A □No Chain of Custody Present? No □N/A Samples Arrived within Hold Time? ANO □N/A Short Hold Time Analysis (<72 hr.)? Yes □N/A Rush Turn Around Time Requested? Tyes □No □N/A Sufficient Volume? Yes No □N/A **Correct Containers Used?** □N/A Wes □ No -Pace Containers Used? No □N/A Lives Containers Intact? No ETN/A ☐ Yes Dissolved analysis: Samples Field Filtered? No □N/A Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: Yes 10. □No Headspace in VOA Vials (>5-6mm)? 11. Yes No DN/A Trip Blank Present? No Yes Trip Blank Custody Seals Present? Field Data Required? Yes No COMMENTS/SAMPLE DISCREPANCY Lot ID of split containers: CLIENT NOTIFICATION/RESOLUTION Date/Time: Person contacted: \_ Project Manager SCURF Review:

Date:

# Pace Analytical

# Document Name: Sample Condition Upon Receipt (SCUR)

Document No.: F-CAR-CS-033-Rev.08 Document Revised: November 15, 2021 Page 2 of 2

> Issuing Authority: Pace Carolinas Quality Office

\*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, ILHg

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

Project # WO#: 9258709

PM: NMG

Due Date: 02/23/22

CLIENT: GA-GA Power

ltem#	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) (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-)	AG15-1 liter Amber H2SO4 (pH < 2)	AG35-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 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)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (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)	BAIN	BP3A-250 mL Plastic (NH2)2504 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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			ljustment Log for Pres			Lot #
Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	LOCA

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

		App IV: Beryllium Ulthium 7040A:	App III	Anions		12	11	10	9	@	7	6	5	4	3	2	1	ITEM#			Request	Phone:	Email To:	Address	Company:	Required
		App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Bartum (Ba), Benyflum (Be), Cedmium (Cd), Citromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Ll), Molyodenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	App III Metals: Boron 6020B, Ca 6010D	Anions Suite 300.0 (Ct. F. Suifate)	ADDITIONAL COMMENTS	XAMW-3	YAMW-2	TGWC 43	YGWC 42	AMA-DUP-2	YGWC-41	YGWC 38	YGWC-49	XGWC-30A	AMA-BUP-1	YGWG-24SA	Y6WC-Z3S	SAMPLE ID  SAMPLE ID  Character per box.  (A-Z, 0-91, -)  Sample ids must be unique  Thus	MATRIX		Requested Due Date:	Fax	2 The second sec	Atlanta, GA	y: GA Power	Required Client Information:
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			App IV: Beryllium Lithium ( 7040A: P	App III N	Anions S		12	11-17-75	10	9	8	7	6	5	4	3	2	1	ITEM#	Arranats		Request	Phone:	Email To:		Address:	Kequire	Section A	
			App IV: Metats 6020B: Antimony (Sb), Arsenic (As), Benium (Be), Beryflium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (U), Molyodenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	App III Metals: Boron 6020B, Ca 6010D	Anions Suite 300.0 (Cl, F, Sulfate)	ADDITIONAL COMMENTS	XAMMA-8-	YAMW-2	YGWC-43	Y6WC4Z	AMA-BUP-2	*GWC-4T	<del>XCW0-38</del>	KOWCAS	XCMC-36A	AMA BUP-1	XGMC-549A-	Y6WC-238-	SAMPLE ID One Character per box. (A-Z, 0-9 f, -) Sample kis must be unique			Requested Due Date:	Fax			Atlanta GA	Ì	<b>A</b>	
			o), Lead (Pb),	7	C.														Denaling Water DY Witche Work WW Product P SolfSold S OI O			Project Number:	Project Name:	Purchase Order #:	Copy In:	Report To	Required Project Information:	Section B	
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		App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobatt (Co), Lead (Pb), Lthium (U), Molybdenum (Mo), Selenium (Se)	App III Metals: Boron 6020B, Ca 6010D	Anions Suite 300.0 (CI, F, Suifate)	ADDITIONAL COMMENTS									AMA-FB-2	AMA-FB-1	AMA EB 2	AMA-EB-1	AMPLE ID  Character per box. (A-Z 0-9 /, -) ble lds must be unique			veducated fine field	Fax			Attanta CA	Required Client Information:
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			M	3/	RELINQUISHED BY I AFFILIATION									NA.	WI	M	*	MATRIX CODE (see valid o		1			Order #:		SS	Project
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# Pace Analytical\*

# Document Name:

# Sample Condition Upon Receipt (SCUR)

Document No.: F-CAR-CS-033-Rev.08

Document Revised: November 15, 2021

Page 1 of 2

Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:  Asheville Eden Greenwood Huntersville	e 🗌 Raleigh	Mechanicsville Atlanta Kernersville
	Yes No	Date/Initials Person Examining Contents: VF 2 12 22
	None 🛮 Oth	ner Biological Tissue Frozen?
Thermometer:  IR Gun ID:  Type of Ice:	☑Wet □Blu	ue None
Cooler Temp:  Cooler Temp Corrected (°C):  USDA Regulated Soil ( \( \sum \) N/A, water sample)	<del></del>	Temp should be above freezing to 6°C Samples out of temp criteria. Samples on ice, cooling process has begun
Did samples originate in a quarantine zone within the United States: CA, NY,	, or SC (check map	s)? Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?   Yes   No
		Comments/Discrepancy:
Chain of Custody Present?	No □N/A	1.
Samples Arrived within Hold Time?	]No □N/A	2.
	No □N/A	3.
Rush Turn Around Time Requested?	No □N/A	4.
Sufficient Volume?	h√o □n/a	5. MISSING & YAMUL 4 2/10/22 0/13
Correct Containers Used?	No □N/A	6.
	]No □N/A	
	No □N/A	7.
	]No	9.
-Includes Date/Time/ID/Analysis Matrix:	JAC LINYA	
	No ⊠N/A	10.
	]No ☑N/A	11.
Trip Blank Custody Seals Present?	]No	
COMMENTS/SAMPLE DISCREPANCY		Field Data Required? ☐ Yes ☐ No
CLIENT NOTIFICATION/RESOLUTION		Lot ID of split containers:
Person contacted:	Date/Tim	ne:
Project Manager SCURF Review:	201	Date:
Project Manager SRF Review:		Date:

		Berylliun Lithium ( 7040A: N	App IV: I	App III N	Anions 5	3	12	11	10	9	œ	7	6	Ü	4	ω	N	1	ITEM#	-		Reques	Phone:	Email To:		Address:	Kedun	Section A
		Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Ll), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Metals 6020B: Antimony (Sb), Arsenic (As), Bariur	App III Metals: Boron 6020B, Ca 6010D	Anions Suite 300.0 (Cl, F, Sulfate)	ADDITIONAL COMMENTS			The second secon	PZ 35	YAMW-1	P2-52D	PZ-51	PZ-37B	AMA-DUP-4	PZ-37	TAMW-5	YAMW-4	SAMPLE ID One Character per box. (A-Z, 0-9 / , .) Sample Ids must be unique			Requested Due Date:	Fax	o:		s: Atlanta. GA	1	A Citatinatan
		, Lead (Pb),	n (Ba),			, y-									!				Waste WW Waste Well Product S. Oil OL Wipe WP Whe WP Other OT Tissue TS	•		Project Number:	Project Name:	Purchase Order #:		Copy To:	Required Project Information:	Section B
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		App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cd), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	App III Metals: Boron 6020B, Ca 6010D	Anions Suite 300.0 (Cl, F, Sulfate)	ADDITIONAL COMMENTS				PZ-35	YAMW-1	PZ-52D	72-51	PZ-970	AMA-DUP-4	PZ-37	YAMW-5	XAMW 4	Charles Wester Witch Witch Witch Witch Witch Witch Witch Witch Witch Witch Witch SoldSold One Character per box.  (A-Z, 0-8 / , -)  Sample ids must be unique Thase	мат		Requested Due Date:	Fax		1	y: GA Power	I¥	>
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	App IV: Metals 60208: Antimony (Sb), Arsentic (As), Barium (Ba), Beynium (Be), Cadmium (Cd), Chonnium (Cr), Cobalt (Co), Lead (Pb), Lithium (Ll), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	App III Metals: Boron 6020B, Ca 6010D	Anions Suite 300.0 (CI, F. Suifate)	ADDITIONAL COMMENTS				2005	YAMW-1	P7-520	P2-61	076-54	AMA DUP-4	PZ-97	TAMW 6	YAMW-4	SAMPLE ID One Character per box. (A-Z, 0-91, -) Sample ids must be unique			Requested Due Date:	Fax	<u> </u>		y GA Power	I₽	•
	rium (Ba), Co), Lead (Pb),			ないないのでは		45.57											Unhang Water WYW Water WIT Water Water WWW Product St. Oil Supposed St. Oil Wipe AR Other OT Titause TS			Project Number.	Project Name:	Purchase Order #:	Copy :	Report To:	Section B Required Project Information:	•
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	7040A: Mercury (Hg)	App IV: Metals 80208: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cd), Cobalt (Co), Lead (Pb), Italium (I) Mathylanum (Ma), Salanium (Sa)	App III Metals: Boron 6020B, Ca 6010D	Anions Suite 300.0 (Ct. F. Sulfate)	ADDITIONAL COMMENTS	YAMWA-	YAMW-2	KGWC-43	YGWC-42	AMA-DUP-2	LF-DM9A	YGWC-38	YGWC-19-	YOWC-36A	AMA_DUP-1	YGWC-24SA	YGWC-23S	SAMPLE ID One Character per box. (A-Z, 0-91, -) Sample ids must be unique		led Due Date:	Fax	9	s: Atlanta, GA		l¥	
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			App IV: Beryllium Lithium ( 7040A: I	Арр III N	Anions S		12	11	10	9	œ	7	6	Ch	4	ω	N		ITEM#	٦	Reques	Phone:	Email To:	Address:	Company:	Section A Required
			App IV: Metals 8020B: Antimony (Sb), Arsentc (As), Barlum (Ba), Berylitum (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	App III Metals: Boron 6020B, Ca 6010D	Anions Suite 300.0 (Ct, F, Sulfate)	ADDITIONAL COMMENTS	YANNW-3	YAMW-2	YGWC 43	YGWC-12	AMA-DUP-2	X9WC-41	Y6WC38	XGWC 49	YOWC-36A	AMA-DUP-1	YGWC-24SA	Y6WC-23S	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique		Requested Due Date:	Fax	0:	s: Atlanta, GA		을
			o), Lead (Pb),		<u></u>	REL													MATRIX CODE Ornking Water Water Water Waser Waser Water	Project Number:	Project Name:	Purchase Order #:	Copy To:	1	lä	
					rals	INQUISE	WT G	WT G	WT G	<b>₩</b> 1	WT G	<b>WT</b> G	<b>₩</b> 1	<b>₩</b> 1	₩Ţ G	a	WT G	WT G	MATRIX CODE (see valid codes to le SAMPLE TYPE (G=GRAB C=COMP	-1	18		후 *	Arcadi	SSS	ect Info
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App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg) Anions Suite 300.0 (CI, F, Sulfate) App III Metals: Boron 6020B, Ca 6010D Requested Due Date 12 = 10 Email To: Address Company: 9 00 7 0 01 4 w ITEM# N AMA-FB-2 AMA-FB-1 AMA-EB-2 AMA-FIRST GA Power Atlanta, GA One Character per box.

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Sample ide must be unique SAMPLE ID ADDITIONAL COMMENTS Fax MATRIX Oriniding Water Water Water Water Water Product SalfSolid Cill Wipe Ar Other Tissue Project Number Purchase Order # Report To: SCS Contacts
Copy To: Arcadis Contacts Required Project Infor Project Name: TS AND PROPERTY OF THE PROPERT RELINQUISHED BY I AFFILIATION **\$ \$** ¥ MATRIX CODE (see valid codes to left) 220120 G Q ф SAMPLE TYPE (G=GRAB C=COMP) Plant Yates AMA-R6 2/10/22 21/0/22 DATE START Charles In 603 1246 SAMPLER NAME AND SIGNATURE 1502 HME COLLECTED SIGNATURE OF SAMPLER: PRINT Name of SAMPLER: /Arcadis DATE 1 **3**2 ,1 TIME 1 DATE SAMPLE TEMP AT COLLECTION Pace Quote: # OF CONTAINERS Pace Profile #: Pace Project Manager (J) O Attention: Southern Co. 17797 O Address: Company Name: TIME will are Ŋ N N N Unpreserved H2SO4 ω ω ω HNO3 Preservatives Dhali 10840 HCI NaOH T ACCEPTED BY / AFFILIATION Na2S2O3 laster. Methanol Other **Analyses Test** Y/N × App III/IV Metals DATE Signed: × × × CI, F, SQ4 × Requested Analysis Filtered (Y/N) × × × × TDS (2540C) × × × RAD 9315/9320 14/11/2 DATE \_ よん TIME Regulatory Agency Page: 3 State / Location TEMP in C Residual Chlorine (Y/N) SAMPLE CONDITIONS Received on 30 (Y/N) Custody Sealed 4 Cooler (Y/N) Samples Intact (Y/N) **³**age

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Field Data Required? Tyes Tho		-	,		COMMENTS/SAMPLE DISCREPANCY
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(2 Page 2 of 2 Section 19 Page 2 of 2 Section 19 Page 2 of 2 Section 19 Page 2 of 2 Section 19 Page 3 Of 2 Section 19 Page 3 Of 2 Section	เกาะโา		ocnwen uou nb	bno2 elqme2	- Aace Analytical
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	App IV: I Berytlium Lithium (I	Agp III N	Anions S		12	11	10	9	Ç	7	6	51	4	ယ	2	1	ITEM#			Request	Phone:	Email To:	Address	Company	Section A Required
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# Georgia Power Co. - Plant Yates

# **Data Review Report**

Metals and General Chemistry Analyses

SDG #92587091

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

Report #44872R Review Level: Tier II Project: 30052922.00004

# **Summary**

This Data Review Report summarizes the review of Sample Delivery Group (SDG) #92587091 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	Doront		Analysi	5
Sample ID	Lab ID	Matrix	Collection Date	Parent Sample	RAD	MET	GEN CHEM
YGWA-39	92587091001	Water	2/8/2022			Х	Х
YGWA-40	92587091002	Water	2/8/2022			Х	Х
YGWA-47	92587091003	Water	2/8/2022			Х	Х
GWA-2	92587091004	Water	2/8/2022			Х	Х
UP-DUP-1	92587091005	Water	2/8/2022	GWA-2		Х	Х
YGWA-1I	92587091006	Water	2/9/2022			Х	Х
YGWA-1D	92587091007	Water	2/9/2022			Х	Х
YGWA-2I	92587091008	Water	2/9/2022			Х	Х
YGWA-3I	92587091009	Water	2/9/2022			Х	Х
YGWA-3D	92587091010	Water	2/9/2022			Х	Х
UP-EB-1	92587091011	Water	2/9/2022			Х	Х
UP-FB-1	92587091012	Water	2/9/2022			Х	Х
YGWA-17S	92587091013	Water	2/9/2022			Х	Х
YGWA-18S	92587091014	Water	2/9/2022			Х	Х
YGWA-18I	92587091015	Water	2/9/2022			Х	Х
YGWA-20S	92587091016	Water	2/9/2022			Х	Х
YGWA-21I	92587091017	Water	2/9/2022			Х	Х
YGWA-5I	92587091018	Water	2/10/2022			Х	Х
UP-DUP-3	92587091019	Water	2/10/2022	YGWA-5I		Х	Х

			Sample Collection	Parent		Analysis	;
Sample ID	Lab ID	Matrix	Date	Sample	RAD	MET	GEN CHEM
YGWA-14S	92587091020	Water	2/10/2022			Χ	Х
UP-DUP-2	92587091021	Water	2/10/2022	YGWA-14S		Х	Х
YGWA-30I	92587091022	Water	2/11/2022			Х	Х
YGWA-4I	92587091023	Water	2/11/2022			Х	Х
YGWA-5D	92587091024	Water	2/10/2022			Х	Х
UP-EB-2	92587091025	Water	2/10/2022			Х	Х
UP-FB-2	92587091026	Water	2/10/2022			X	Х

# Notes:

- 1. Metals and total dissolved solids (TDS) analysis performed by Pace Analytical Services Peachtree Corners, Georgia.
- 2. Anions (chloride, fluoride, and sulfate) analysis performed by Pace Analytical Services Asheville, North Carolina.
- 3. 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 Required
	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		Х		Х	
12. Data package completeness and compliance		X		Х	

Note:

QA = quality assurance

# **Inorganic Analysis Introduction**

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

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

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

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

# **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
YGWA-39 YGWA-40 YGWA-47 GWA-2 UP-DUP-1 YGWA-11 YGWA-11 YGWA-21	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
YGWA-3I YGWA-3D YGWA-17S YGWA-18S YGWA-18I YGWA-20S YGWA-21I YGWA-5I UP-DUP-3 YGWA-14S UP-DUP-2 YGWA-30I YGWA-4I YGWA-5D	Arsenic (EB, FB, MB)	Detected sample results <rl <bal<="" and="" td=""><td>"UB" at the RL</td></rl>	"UB" at the RL
YGWA-18S	Chromium (MB)		

#### Notes:

EB = Equipment blank

FB = Field blank

MB = Method blank

RL = Reporting limit

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

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

## 3.1 MS/MSD Analysis

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

The MS/MSD analysis performed using sample YGWA-3D in association with SW-846 6010D analysis. The concentration of calcium in the unspiked sample was greater than four-times the amount of spike added; hence the recoveries were not evaluated, and no qualification of the results was required.

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

The MS/MSD analysis performed using sample YGWA-14S in association with SW-846 7470A analysis exhibited recoveries within the control limits.

### 3.2 Laboratory Duplicate Analysis

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

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis. The MS/MSD recoveries exhibited acceptable RPDs.

### 4. Field Duplicate Analysis

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

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD	
	Calcium	25.6	25.6	0.0%	
	Barium	0.037	0.034	8.5%	
	Cobalt	0.072	0.055	26.8%	
GWA-2 / UP-DUP-1	Copper	0.0012 J	0.0012 J		
	Lithium	0.0031 J	0.0027 J	AC	
	Nickel	0.017	0.014		
	Zinc	0.014	0.012	-	
	Calcium	2.5	2.6		
YGWA-5I / UP-DUP-3	Barium	0.020	0.020	AC	
	Lithium	0.0036 J	0.0037 J	-	
	Calcium	1.3	1.2		
YGWA-14S / UP-DUP-2	Barium	0.0088	0.0084	AC	
	Beryllium	0.00025 J	0.00022 J	-	

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
	Boron	0.020 J	0.018 J	
	Selenium	0.0014 J	0.0050 U	

#### Note:

AC = Acceptable

The differences in the results between the parent sample GWA-2 and field duplicate sample UP-DUP-1 were acceptable.

The differences in the results between the parent sample YGWI-5I and field duplicate sample UP-DUP-3 were acceptable.

The differences in the results between the parent sample YGWA-14S and field duplicate sample UP-DUP-2 were acceptable.

## 5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

## 6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

## **Data Validation Checklist for Metals**

METALS: SW-846 6010D/6020B/7470A		Reported		rmance eptable	Not Required
	No	Yes	No	Yes	
Inductively Coupled Plasma-Atomic Emission Spectron Inductively Coupled Plasma-Mass Spectrometry (ICP-M Atomic Absorption – Manual Cold Vapor (CV)		AES)			
Tier II Validation					
Holding Times		Х		Х	
Reporting limits (units)		X		Х	
Blanks			1	ı	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		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

## **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
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 YGWA-21I and YGWA-5I in association with anions analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed on sample locations YGWA-47 and YGWA-1D in association with anions analysis exhibited recoveries outside of the acceptance limits as presented in the table below.

Sample Location	Analyte	MS Recovery	MSD Recovery
YGWA-47	Sulfate	73%	AC (75%)
YGWA-1D	Chloride	> 125%	AC (121%)

#### Note:

AC = Acceptable

The criteria used to evaluate MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified.

Control limit	Sample Result	Qualification
MS/MSD percent recovery 30% to 74%	Non-detect	UJ
Morniob percent recovery 30 % to 7 + 70	Detect	J
MS/MSD percent recovery <30%	Non-detect	R
Mornios percent recovery 25070	Detect	J
MS/MSD percent recovery >125%	Non-detect	No Action
Mornios percent recovery > 120/0	Detect	J

## 3.2 Laboratory Duplicate Analysis

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

The laboratory duplicate analysis performed using samples YGWA-47 and UP-EB-1 in association with TDS analysis exhibited an RPD within the control limit.

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis in association with anions. The MS/MSD recoveries exhibited acceptable RPDs.

## 4. Field Duplicate Analysis

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

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
	TDS	283	271	4.4%
GWA-2 / UP-DUP-1	Chloride	5.7	5.7	0.0%
SW/Y27 61 B61 1	Sulfate	107	102	4.8%
	Fluoride	0.064 J	0.059 J	AC
	TDS	77.0	67.0	13.9%
YGWA-5I – UP-DUP-3	Chloride	4.4	4.4	AC
	Sulfate	2.4	2.4	AO
	TDS	56.0	53.0	5.5%
YGWA-14S / UP-DUP-2	Sulfate	6.2	6.1	1.6%
	Chloride	4.7	4.7	AC

#### Note:

AC = Acceptable

The differences in the results between the parent sample GWA-2 and field duplicate sample UP-DUP-1 were acceptable.

The differences in the results between the parent sample YGWI-5I and field duplicate sample UP-DUP-3 were acceptable.

The differences in the results between the parent sample YGWA-14S and field duplicate sample UP-DUP-2 were acceptable.

## 5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

## 6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

# **Data Validation Checklist for General Chemistry**

General Chemistry: SM4500-H+ B, SM2540C, USEPA	Reported		Performance Acceptable		Not Required
300.0	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		Х		Х	
Reporting limits (units)		Х		Х	
Blanks	1	<u> </u>	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

VALIDATION PERFORMED BY: Jennifer Singer

SIGNATURE:

DATE: March 21, 2022

Sknrije Osinger

PEER REVIEW: Dennis Capria

DATE: March 22, 2022

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SDG	Sample ID	Method	Analyte	Result	<b>Units</b>	Validation Qualifier	Reason for Validation Qualifier
92587091	YGWA-39	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-40	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-47	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
		EPA 300.0	Sulfate	50.9	mgL	J	MS %R < LCL
	GWA-2	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	UP-DUP-1	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-1I	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-1D	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
		EPA 300.0	Chloride	1.0	mgL	J	MS %R > UCL
	YGWA-2I	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-3I	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-3D	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-17S	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-18S	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
			Chromium	0.0050	mgL	UB	Blank contamination
	YGWA-18I	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-20S	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-21I	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-5I	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	UP-DUP-3	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-14S	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	UP-DUP-2	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-30I	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-4I	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination
	YGWA-5D	SW846 6020B	Arsenic	0.0050	mgL	UB	Blank contamination

#### Abbreviations:

%R = percent recovery LCL = lower control limit mg/L = milligrams per liter MS = matrix spike UCL = upper control limit

#### Qualifiers:

J = estimated result
UB = not detected due to blank contamination





February 25, 2022

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

RE: Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between February 09, 2022 and February 11, 2022. 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,

Micole D'oles

Nicole D'Oleo nicole.d'oleo@pacelabs.com (704)875-9092 Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Anna Bottum, ERM
Andrea Brazell, ERM
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Lacy Smith, ERM
Samantha Thomas

Caitlin Tillema, ERM Christine Weaver, ERM Albert Zumbuhl, Arcadis





#### **CERTIFICATIONS**

YATES POOLED UPGRADIENT Project:

Pace Project No.: 92587091

**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 Virginia/VELAP Certification #: 460221

**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 North Carolina Certification #: 381

Florida DOH Certification #: E87315 Georgia DW Inorganics Certification #: 812 South Carolina Certification #: 98011001



#### **SAMPLE SUMMARY**

Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92587091001	YGWA-39	Water	02/08/22 14:55	02/09/22 10:18
92587091002	YGWA-40	Water	02/08/22 13:22	02/09/22 10:18
92587091003	YGWA-47	Water	02/08/22 11:40	02/09/22 10:18
92587091004	GWA-2	Water	02/08/22 11:50	02/09/22 10:18
92587091005	UP-DUP-1	Water	02/08/22 00:00	02/09/22 10:18
92587091006	YGWA-1I	Water	02/09/22 13:45	02/10/22 17:00
92587091007	YGWA-1D	Water	02/09/22 14:45	02/10/22 17:00
92587091008	YGWA-2I	Water	02/09/22 17:35	02/10/22 17:00
92587091009	YGWA-3I	Water	02/09/22 11:35	02/10/22 17:00
92587091010	YGWA-3D	Water	02/09/22 10:20	02/10/22 17:00
2587091011	UP-EB-1	Water	02/09/22 13:06	02/10/22 17:00
2587091012	UP-FB-1	Water	02/09/22 10:47	02/10/22 17:00
2587091013	YGWA-17S	Water	02/09/22 10:20	02/10/22 17:00
2587091014	YGWA-18S	Water	02/09/22 12:24	02/10/22 17:00
2587091015	YGWA-18I	Water	02/09/22 14:31	02/10/22 17:00
2587091016	YGWA-20S	Water	02/09/22 16:19	02/10/22 17:00
2587091017	YGWA-21I	Water	02/09/22 17:40	02/10/22 17:00
2587091018	YGWA-5I	Water	02/10/22 17:27	02/11/22 16:45
92587091019	UP-DUP-3	Water	02/10/22 00:00	02/11/22 16:45
92587091020	YGWA-14S	Water	02/10/22 16:20	02/11/22 16:45
2587091021	UP-DUP-2	Water	02/10/22 00:00	02/11/22 16:45
2587091022	YGWA-30I	Water	02/11/22 09:20	02/11/22 16:45
2587091023	YGWA-4I	Water	02/11/22 10:40	02/11/22 16:45
2587091024	YGWA-5D	Water	02/10/22 17:46	02/11/22 16:45
2587091025	UP-EB-2	Water	02/10/22 11:40	02/11/22 16:45
92587091026	UP-FB-2	Water	02/10/22 17:13	02/11/22 16:45



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

92587091001 YGWA-39	Lab ID	Sample ID	Method	Analysts	Analytes Reported
Part   Part	92587091001	YGWA-39	EPA 6010D	— <u>———</u> КН	1
SM 2540C-2015   ALW   1   1   1   1   1   1   1   1   1			EPA 6020B	CW1	13
P2587091002   YGWA-40			EPA 7470A	VB	1
92587091002         YGWA-40         EPA 6010D         KH         1           EPA 6020B         CW1         13           EPA 7470A         VB         1           SM 2540C-2015         ALW         1           SM 2540C-2015         ALW         3           SM 2540C-2015         ALW         1           EPA 300.0 Rev 2.1 1993         JCM         3           SM 2540C-2015         ALW         1           EPA 300.0 Rev 2.1 1993         JCM         3           SM 2540C-2015         ALW         1           EPA 300.0 Rev 2.1 1993         JCM         3           SM 2540C-2015         ALW         1           EPA 300.0 Rev 2.1 1993         JCM         3           SM 2540C-2015         ALW         1           EPA 300.0 Rev 2.1 1993         JCM         3           SM 2540C-2015         ALW         1           EPA 300.0 Rev 2.1 1993         JCM         3           SM 2540C-2015         ALW         1           EPA 300.0 Rev 2.1 1993         JCM         3           SM 2540C-2016         ALW         1           EPA 300.0 Rev 2.1 1993         JCM         3           SE PA 300.0 Rev 2.1			SM 2540C-2015	ALW	1
PA 6020B   CW1   13   EPA 7470A   VB   1   EPA 7470A   VB   3   EPA 7470A   VB   3   EPA 7470A   VB   1   EPA 6020B   CW1   13   EPA 7470A   VB   1   EPA 6020B   CW1   18   EPA 7470A   VB   1   EPA 6020B   CW1   18   EPA 7470A   VB   1   EPA 6020B   CW1   13   EPA 7470A   CW1   EPA 6020B   CW1   EP			EPA 300.0 Rev 2.1 1993	JCM	3
Page	92587091002	YGWA-40	EPA 6010D	KH	1
SM 2540C-2015   ALW   1			EPA 6020B	CW1	13
92587091003			EPA 7470A	VB	1
92587091003         YGWA-47         EPA 6010D         KH         1           EPA 6020B         CW1         13           EPA 7470A         VB         1           SM 2540C-2015         ALW         1           P2587091004         GWA-2         EPA 300.0 Rev 2.1 1993         JCM         3           92587091004         GWA-2         EPA 6020B         CW1         18           EPA 7470A         VB         1         1           SM 2540C-2015         ALW         1           SM 2540C-2015         ALW         1           EPA 300.0 Rev 2.1 1993         JCM         3           92587091005         UP-DUP-1         EPA 6010D         KH         1           EPA 6020B         CW1         18           EPA 7470A         VB         1           SM 2540C-2015         ALW         1           EPA 300.0 Rev 2.1 1993         JCM         3           92587091007         YGWA-1I         EPA 6020B         CW1         13           EPA 4010D         KH         1         1           EPA 6020B         CW1         13           EPA 7470A         VB         1           EPA 300.0 Rev 2.1 1993			SM 2540C-2015	ALW	1
PAR 6020B   CW1   13   EPA 7470A   VB   1   EPA 7470A   VB   1   SM 2540C-2015   ALW   1   SM 2540C-2015   ALW   1   EPA 300.0 Rev 2.1 1993   JCM   3   3   3   3   3   3   3   3   3			EPA 300.0 Rev 2.1 1993	JCM	3
PART   PART	92587091003	YGWA-47	EPA 6010D	KH	1
92587091004			EPA 6020B	CW1	13
92587091004			EPA 7470A	VB	1
92587091004       GWA-2       EPA 6010D       KH       1         EPA 6020B       CW1       18         EPA 7470A       VB       1         SM 2540C-2015       ALW       1         EPA 300.0 Rev 2.1 1993       JCM       3         92587091005       UP-DUP-1       EPA 6010D       KH       1         EPA 6020B       CW1       18         EPA 7470A       VB       1         SM 2540C-2015       ALW       1         EPA 300.0 Rev 2.1 1993       JCM       3         P2587091006       YGWA-1I       EPA 6020B       CW1       13         EPA 7470A       VB       1         EPA 300.0 Rev 2.1 1993       JCM       3         P2587091007       YGWA-1D       EPA 300.0 Rev 2.1 1993       JCM       3         EPA 6020B       CW1       1         EPA 7470A       VB       1 <td< td=""><td></td><td></td><td>SM 2540C-2015</td><td>ALW</td><td>1</td></td<>			SM 2540C-2015	ALW	1
Page   Page			EPA 300.0 Rev 2.1 1993	JCM	3
PEPA 7470A   VB   1   SM 2540C-2015   ALW   1   SM 2540C-2015   ALW   1   SM 2540C-2015   ALW   1   SM 2540C-2015   ALW   3   SM 2540C-2015   ALW   1   ALW	92587091004	GWA-2	EPA 6010D	KH	1
SM 2540C-2015   ALW   1			EPA 6020B	CW1	18
EPA 300.0 Rev 2.1 1993       JCM       3         92587091005       UP-DUP-1       EPA 6010D       KH       1         EPA 6020B       CW1       18         EPA 7470A       VB       1         SM 2540C-2015       ALW       1         EPA 300.0 Rev 2.1 1993       JCM       3         92587091006       YGWA-1I       EPA 6010D       KH       1         EPA 6020B       CW1       13         EPA 7470A       VB       1         SM 2540C-2015       ALW       1         EPA 300.0 Rev 2.1 1993       JCM       3         92587091007       YGWA-1D       EPA 6010D       KH       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 </td <td></td> <td></td> <td>EPA 7470A</td> <td>VB</td> <td>1</td>			EPA 7470A	VB	1
92587091005       UP-DUP-1       EPA 6010D       KH       1         EPA 6020B       CW1       18         EPA 7470A       VB       1         SM 2540C-2015       ALW       1         P2587091006       YGWA-1I       EPA 6010D       KH       1         EPA 6020B       CW1       13         EPA 7470A       VB       1         SM 2540C-2015       ALW       1         EPA 300.0 Rev 2.1 1993       JCM       3         P2587091007       YGWA-1D       EPA 6010D       KH       1         EPA 6020B       CW1       13         EPA 7470A       VB       1         EPA 7470A       VB       1         EPA 300.0 Rev 2.1 1993       JCM       3			SM 2540C-2015	ALW	1
BEPA 6020B   CW1   18     EPA 7470A   VB   1     SM 2540C-2015   ALW   1     EPA 300.0 Rev 2.1 1993   JCM   3     P2587091006   YGWA-11   EPA 6010D   KH   1     EPA 6020B   CW1   13     EPA 7470A   VB   1     EPA 7470A   VB   1     EPA 7470A   VB   1     EPA 300.0 Rev 2.1 1993   JCM   3     P2587091007   YGWA-1D   EPA 6010D   KH   1     EPA 6020B   CW1   13     EPA 7470A   VB   1     EPA 6020B   CW1   13     EPA 7470A   VB   1     EPA 300.0 Rev 2.1 1993   JCM   3     P2587091008   YGWA-21   EPA 6010D   KH   1			EPA 300.0 Rev 2.1 1993	JCM	3
PAT 7470A VB 1 SM 2540C-2015 ALW 1 EPA 300.0 Rev 2.1 1993 JCM 3  92587091006 YGWA-1I EPA 6010D KH 1 EPA 6020B CW1 13 EPA 7470A VB 1 EPA 7470A VB 1 SM 2540C-2015 ALW 1 EPA 300.0 Rev 2.1 1993 JCM 3  92587091007 YGWA-1D EPA 6010D KH 1 EPA 6020B CW1 13 EPA 300.0 Rev 2.1 1993 JCM 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 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 300.0 Rev 2.1 1993 JCM 3	92587091005	UP-DUP-1	EPA 6010D	KH	1
SM 2540C-2015   ALW   1			EPA 6020B	CW1	18
P2587091006 YGWA-1I EPA 6010D KH 1 EPA 6020B CW1 13 EPA 7470A VB 1 EPA 300.0 Rev 2.1 1993 JCM 3  P2587091007 YGWA-1D EPA 6010D KH 1 EPA 6020B CW1 13 EPA 300.0 Rev 2.1 1993 JCM 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 7470A VB 1 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A VB 1 EPA 300.0 Rev 2.1 1993 JCM 3  P2587091008 YGWA-2I EPA 6010D KH 1			EPA 7470A	VB	1
92587091006 YGWA-1I EPA 6010D KH 1 EPA 6020B CW1 13 EPA 7470A VB 1 SM 2540C-2015 ALW 1 EPA 6010D KH 1  SM 2540C-2015 OLW 1  EPA 6010D KH 1  EPA 6010D KH 1  EPA 6020B CW1 13  EPA 6010D KH 1  EPA 6020B CW1 13  EPA 6020B CW1 13  EPA 6020B CW1 13  EPA 7470A VB 1  EPA 7470A			SM 2540C-2015	ALW	1
EPA 6020B CW1 13 EPA 7470A VB 1 SM 2540C-2015 ALW 1 EPA 300.0 Rev 2.1 1993 JCM 3  92587091007 YGWA-1D EPA 6010D KH 1 EPA 6020B CW1 13 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A VB 1 SM 2540C-2015 ALW 1 EPA 300.0 Rev 2.1 1993 JCM 3  92587091008 YGWA-2I EPA 6010D KH 1			EPA 300.0 Rev 2.1 1993	JCM	3
P2587091007 YGWA-1D EPA 6010D KH 1  SM 2540C-2015 ALW 1  EPA 300.0 Rev 2.1 1993 JCM 3  EPA 6020B CW1 13  EPA 7470A VB 1  EPA 7470A VB 1  SM 2540C-2015 ALW 1  EPA 7470A VB 1  EPA 7470A VB 1  EPA 7470A VB 1  EPA 7470A VB 1  EPA 7470A KB 1  EPA 7470A KB 1  EPA 7470A KB 1  EPA 7470A KB 1  EPA 6010D KH 1  EPA 6010D KH 1	92587091006	YGWA-1I	EPA 6010D	KH	1
SM 2540C-2015 ALW 1 EPA 300.0 Rev 2.1 1993 JCM 3  92587091007 YGWA-1D EPA 6010D KH 1 EPA 6020B CW1 13 EPA 7470A VB 1 SM 2540C-2015 ALW 1 EPA 300.0 Rev 2.1 1993 JCM 3  92587091008 YGWA-2I EPA 6010D KH 1			EPA 6020B	CW1	13
P2587091007 YGWA-1D EPA 6010D KH 1 EPA 6020B CW1 13 EPA 7470A VB 1 SM 2540C-2015 ALW 1 EPA 300.0 Rev 2.1 1993 JCM 3 P2587091008 YGWA-2I EPA 6010D KH 1			EPA 7470A	VB	1
92587091007       YGWA-1D       EPA 6010D       KH       1         EPA 6020B       CW1       13         EPA 7470A       VB       1         SM 2540C-2015       ALW       1         EPA 300.0 Rev 2.1 1993       JCM       3         92587091008       YGWA-2I       EPA 6010D       KH       1			SM 2540C-2015	ALW	1
EPA 6020B CW1 13 EPA 7470A VB 1 SM 2540C-2015 ALW 1 EPA 300.0 Rev 2.1 1993 JCM 3 92587091008 YGWA-2I EPA 6010D KH 1			EPA 300.0 Rev 2.1 1993	JCM	3
EPA 7470A VB 1 SM 2540C-2015 ALW 1 EPA 300.0 Rev 2.1 1993 JCM 3 92587091008 YGWA-2I EPA 6010D KH 1	92587091007	YGWA-1D	EPA 6010D	KH	1
SM 2540C-2015 ALW 1 EPA 300.0 Rev 2.1 1993 JCM 3 92587091008 YGWA-2I EPA 6010D KH 1			EPA 6020B	CW1	13
EPA 300.0 Rev 2.1 1993 JCM 3 92587091008 YGWA-2I EPA 6010D KH 1			EPA 7470A	VB	1
<b>92587091008 YGWA-2I</b> EPA 6010D KH 1			SM 2540C-2015	ALW	1
			EPA 300.0 Rev 2.1 1993	JCM	3
EPA 6020B CW1 13	92587091008	YGWA-2I	EPA 6010D	KH	1
			EPA 6020B	CW1	13

#### **REPORT OF LABORATORY ANALYSIS**



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

_ab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	 VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
2587091009	YGWA-3I	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
2587091010	YGWA-3D	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
2587091011	UP-EB-1	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
2587091012	UP-FB-1	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
2587091013	YGWA-17S	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
2587091014	YGWA-18S	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
2587091015	YGWA-18I	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1

#### **REPORT OF LABORATORY ANALYSIS**



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091016	YGWA-20S	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091017	YGWA-21I	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92587091018	YGWA-5I	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091019	UP-DUP-3	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091020	YGWA-14S	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091021	UP-DUP-2	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091022	YGWA-30I	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091023	YGWA-4I	EPA 6010D	KH	1

#### **REPORT OF LABORATORY ANALYSIS**



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091024	YGWA-5D	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091025	UP-EB-2	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587091026	UP-FB-2	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		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: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Lab Sample ID	Client Sample ID					
Method	Parameters	Result _	Units	Report Limit	Analyzed	Qualifier
2587091001	YGWA-39					
	Performed by	CUSTOME R			02/09/22 12:38	
	рН	5.78	Std. Units		02/09/22 12:38	
EPA 6010D	Calcium	15.2	mg/L	1.0	02/23/22 21:07	
EPA 6020B	Arsenic	0.0034J	mg/L	0.0050	02/23/22 19:41	В
EPA 6020B	Barium	0.041	mg/L	0.0050	02/23/22 19:41	
EPA 6020B	Boron	0.13	mg/L	0.040	02/24/22 12:58	
EPA 6020B	Cadmium	0.00063	mg/L	0.00050	02/23/22 19:41	
PA 6020B	Cobalt	0.0012J	mg/L	0.0050	02/23/22 19:41	
PA 6020B	Lithium	0.0080J	mg/L	0.030	02/23/22 19:41	
PA 6020B	Molybdenum	0.0035J	mg/L	0.010	02/23/22 19:41	
SM 2540C-2015	Total Dissolved Solids	248	mg/L	10.0	02/14/22 15:20	
PA 300.0 Rev 2.1 1993	Chloride	7.4	mg/L	1.0	02/15/22 08:56	
PA 300.0 Rev 2.1 1993	Fluoride	0.052J	mg/L	0.10	02/15/22 08:56	
PA 300.0 Rev 2.1 1993	Sulfate	14.6	mg/L	1.0	02/15/22 08:56	
2587091002	YGWA-40					
	Performed by	CUSTOME R			02/09/22 12:38	
	рН	5.26	Std. Units		02/09/22 12:38	
PA 6010D	Calcium	6.0	mg/L	1.0	02/23/22 21:12	
PA 6020B	Arsenic	0.0030J	mg/L	0.0050	02/23/22 19:47	В
PA 6020B	Barium	0.039	mg/L	0.0050	02/23/22 19:47	
PA 6020B	Beryllium	0.00028J	mg/L	0.00050	02/23/22 19:47	
PA 6020B	Boron	0.074	mg/L	0.040	02/24/22 13:04	
PA 6020B	Lithium	0.00076J	mg/L	0.030	02/23/22 19:47	
PA 6020B	Selenium	0.0014J	mg/L	0.0050	02/23/22 19:47	
PA 7470A	Mercury	0.00013J	mg/L	0.00020	02/16/22 15:55	
M 2540C-2015	Total Dissolved Solids	93.0	mg/L	10.0	02/14/22 15:20	
PA 300.0 Rev 2.1 1993	Chloride	6.2	mg/L	1.0	02/15/22 09:10	
PA 300.0 Rev 2.1 1993	Sulfate	17.9	mg/L	1.0	02/15/22 09:10	
587091003	YGWA-47					
	Performed by	CUSTOME R			02/09/22 12:39	
	pH	5.40	Std. Units		02/09/22 12:39	
PA 6010D	Calcium	9.4	mg/L		02/23/22 21:26	
PA 6020B	Arsenic	0.0027J	mg/L	0.0050		В
PA 6020B	Barium	0.030	mg/L		02/23/22 19:53	
PA 6020B	Beryllium	0.000056J	mg/L		02/23/22 19:53	
PA 6020B	Boron	0.015J	mg/L	0.040		
PA 6020B	Cobalt	0.0013J	mg/L	0.0050		
PA 6020B	Lithium	0.0039J	mg/L		02/23/22 19:53	
M 2540C-2015	Total Dissolved Solids	151	mg/L		02/15/22 16:02	
PA 300.0 Rev 2.1 1993	Chloride	3.2	mg/L	1.0	02/15/22 09:52	
PA 300.0 Rev 2.1 1993	Sulfate	50.9	mg/L	1.0	02/15/22 09:52	M1
587091004	GWA-2					
	Performed by	CUSTOME R			02/09/22 12:39	

#### **REPORT OF LABORATORY ANALYSIS**



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
2587091004	GWA-2					
	рН	5.83	Std. Units		02/09/22 12:39	
PA 6010D	Calcium	25.6	mg/L	1.0	02/23/22 21:31	
PA 6020B	Arsenic	0.0033J	mg/L	0.0050	02/23/22 19:59	В
PA 6020B	Barium	0.037	mg/L	0.0050	02/23/22 19:59	
PA 6020B	Cobalt	0.072	mg/L	0.0050	02/23/22 19:59	
PA 6020B	Copper	0.0012J	mg/L	0.0050	02/23/22 19:59	
PA 6020B	Lithium	0.0031J	mg/L	0.030	02/23/22 19:59	
PA 6020B	Nickel	0.017	mg/L	0.0050	02/23/22 19:59	
PA 6020B	Zinc	0.014	mg/L	0.010	02/23/22 19:59	
M 2540C-2015	Total Dissolved Solids	283	mg/L		02/15/22 16:03	
PA 300.0 Rev 2.1 1993	Chloride	5.7	mg/L	1.0	02/15/22 10:34	
EPA 300.0 Rev 2.1 1993	Fluoride	0.064J	mg/L		02/15/22 10:34	
EPA 300.0 Rev 2.1 1993	Sulfate	107	mg/L		02/15/22 18:19	
2587091005	UP-DUP-1		g/ <b>L</b>	0.0	02,10,22 10.10	
PA 6010D	Calcium	25.6	mg/L	1.0	02/23/22 21:36	
EPA 6020B	Arsenic	0.0034J	mg/L	0.0050	02/23/22 20:05	В
EPA 6020B	Barium	0.034	mg/L	0.0050	02/23/22 20:05	_
PA 6020B	Cobalt	0.055	mg/L	0.0050	02/23/22 20:05	
EPA 6020B	Copper	0.0012J		0.0050		
PA 6020B	Lithium	0.00123 0.0027J	mg/L	0.030	02/23/22 20:05	
			mg/L			
PA 6020B	Nickel	0.014	mg/L	0.0050		
PA 6020B	Zinc	0.012	mg/L	0.010	02/23/22 20:05	
SM 2540C-2015	Total Dissolved Solids	271	mg/L	10.0	02/15/22 16:03	
EPA 300.0 Rev 2.1 1993	Chloride	5.7	mg/L	1.0	02/15/22 10:48	
EPA 300.0 Rev 2.1 1993	Fluoride	0.059J	mg/L	0.10	02/15/22 10:48	
PA 300.0 Rev 2.1 1993	Sulfate	102	mg/L	2.0	02/15/22 18:34	
2587091006	YGWA-1I	0.1070147				
	Performed by	CUSTOME R			02/11/22 10:07	
	pН	6.24	Std. Units		02/11/22 10:07	
PA 6010D	Calcium	2.1	mg/L	1.0	02/23/22 21:50	
PA 6020B	Arsenic	0.0033J	mg/L	0.0050	02/23/22 20:23	В
PA 6020B	Barium	0.0088	mg/L	0.0050	02/23/22 20:23	
PA 6020B	Cobalt	0.0023J	mg/L	0.0050	02/23/22 20:23	
PA 6020B	Lithium	0.0027J	mg/L		02/23/22 20:23	
PA 6020B	Molybdenum	0.0055J	mg/L		02/23/22 20:23	
M 2540C-2015	Total Dissolved Solids	57.0	mg/L		02/15/22 16:30	
EPA 300.0 Rev 2.1 1993	Chloride	1.3	mg/L		02/16/22 13:32	
PA 300.0 Rev 2.1 1993	Sulfate	5.1	mg/L		02/16/22 13:32	
2587091007	YGWA-1D	0	9/=		02, 10,22 10.02	
	_	CUSTOME			02/11/22 10:07	
	Performed by	COSTOME R			02/11/22 10:07	
	рН	7.12	Std. Units		02/11/22 10:07	
PA 6010D	Calcium	14.9	mg/L	1.0	02/23/22 21:55	
PA 6020B	Arsenic	0.0031J	mg/L	0.0050	02/23/22 20:41	В
PA 6020B	Barium	0.0067	mg/L		02/23/22 20:41	

#### **REPORT OF LABORATORY ANALYSIS**



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Lab Sample ID	Client Sample ID	Daniel	11.5	Demand Line's	A b d	0
Method	Parameters	Result _	Units	Report Limit	Analyzed	Qualifiers
2587091007	YGWA-1D					
EPA 6020B	Cobalt	0.00072J	mg/L	0.0050	02/23/22 20:41	
PA 6020B	Lithium	0.013J	mg/L	0.030	02/23/22 20:41	
PA 6020B	Molybdenum	0.0093J	mg/L	0.010	02/23/22 20:41	
M 2540C-2015	Total Dissolved Solids	105	mg/L	10.0	02/15/22 16:30	
PA 300.0 Rev 2.1 1993	Chloride	1.0	mg/L	1.0	02/16/22 13:46	M1
PA 300.0 Rev 2.1 1993	Fluoride	0.057J	mg/L	0.10	02/16/22 13:46	M1
PA 300.0 Rev 2.1 1993	Sulfate	9.3	mg/L	1.0	02/16/22 13:46	M1
2587091008	YGWA-2I					
	Performed by	CUSTOME			02/11/22 10:07	
	рН	R 5.89	Std. Units		02/11/22 10:07	
PA 6010D	Calcium	23.4	mg/L	1.0	02/23/22 21:59	
PA 6020B	Arsenic	0.0037J	mg/L	0.0050	02/23/22 20:47	В
PA 6020B	Barium	0.0029J	mg/L	0.0050	02/23/22 20:47	
PA 6020B	Lithium	0.0060J	mg/L	0.030	02/23/22 20:47	
PA 6020B	Molybdenum	0.0057J	mg/L	0.010	02/23/22 20:47	
M 2540C-2015	Total Dissolved Solids	156	mg/L	10.0	02/15/22 16:31	
PA 300.0 Rev 2.1 1993	Chloride	1.0J	mg/L	1.0	02/16/22 14:28	
PA 300.0 Rev 2.1 1993	Fluoride	0.094J	mg/L	0.10	02/16/22 14:28	
PA 300.0 Rev 2.1 1993	Sulfate	18.0	mg/L	1.0	02/16/22 14:28	
2587091009	YGWA-3I		J			
	Performed by	CUSTOME			02/11/22 10:07	
	рН	R 7.66	Std. Units		02/11/22 10:07	
PA 6010D	Calcium	23.7	mg/L	1.0	02/11/22 10:07	
PA 6020B	Arsenic	0.0018J	mg/L	0.0050	02/24/22 17:09	D
PA 6020B	Barium	0.00183 0.0031J	mg/L	0.0050	02/24/22 17:09	ь
PA 6020B	Lithium	0.00313 0.021J	mg/L	0.0030	02/24/22 17:09	
PA 6020B	Molybdenum	0.0213 0.0087J	mg/L	0.030	02/24/22 17:09	
M 2540C-2015	Total Dissolved Solids	145	mg/L	10.0	02/15/22 16:31	
PA 300.0 Rev 2.1 1993	Chloride	1.1	•	1.0	02/16/22 14:42	
	Fluoride	0.097J	mg/L		02/16/22 14:42	
PA 300.0 Rev 2.1 1993 PA 300.0 Rev 2.1 1993	Sulfate	16.0	mg/L mg/L	0.10 1.0	02/16/22 14:42	
2587091010	YGWA-3D	10.0	mg/L	1.0	02/10/22 14.42	
2001 03 10 10	Performed by	CUSTOME			02/11/22 10:07	
	. Silomica sy	R			52/11/22 10:01	
	рН	7.97	Std. Units		02/11/22 10:07	
PA 6010D	Calcium	30.3	mg/L	1.0	02/23/22 22:47	M1
PA 6020B	Antimony	0.0018J	mg/L	0.0030	02/24/22 17:33	
PA 6020B	Arsenic	0.0020J	mg/L	0.0050	02/24/22 17:33	В
PA 6020B	Barium	0.0051	mg/L	0.0050	02/24/22 17:33	
PA 6020B	Boron	0.010J	mg/L	0.040	02/24/22 17:33	
PA 6020B	Lithium	0.026J	mg/L	0.030	02/24/22 17:33	
PA 6020B	Molybdenum	0.013	mg/L	0.010	02/24/22 17:33	
M 2540C-2015	Total Dissolved Solids	154	mg/L	10.0	02/15/22 16:31	
-		1.1	mg/L			



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587091010	YGWA-3D			-, .		
EPA 300.0 Rev 2.1 1993	Fluoride	0.43	mg/L	0.10	02/16/22 14:55	
EPA 300.0 Rev 2.1 1993	Sulfate	7.2	mg/L	1.0	02/16/22 14:55	
2587091011	UP-EB-1					
EPA 6020B	Arsenic	0.0019J	mg/L	0.0050	02/24/22 17:39	В
2587091012	UP-FB-1					
EPA 6020B	Arsenic	0.0018J	mg/L	0.0050	02/24/22 17:45	В
2587091013	YGWA-17S		-			
200.00.0.0	Performed by	CUSTOME			02/11/22 10:08	
	·	R				
	pH	5.53	Std. Units		02/11/22 10:08	
EPA 6010D	Calcium	2.8	mg/L		02/23/22 23:25	_
EPA 6020B	Arsenic	0.0024J	mg/L	0.0050	02/24/22 17:51	В
EPA 6020B	Barium	0.017	mg/L	0.0050	02/24/22 17:51	
EPA 6020B	Beryllium	0.00011J	mg/L	0.00050	02/24/22 17:51	
EPA 6020B SM 2540C-2015	Boron Total Dissolved Solids	0.0098J	mg/L	0.040	02/24/22 17:51 02/15/22 16:31	
		81.0	mg/L	10.0		
EPA 300.0 Rev 2.1 1993 EPA 300.0 Rev 2.1 1993	Chloride Sulfate	10.9 4.8	mg/L	1.0 1.0	02/16/22 16:55 02/16/22 16:55	
		4.0	mg/L	1.0	02/10/22 16:55	
2587091014	YGWA-18S	OLIOTOME				
	Performed by	CUSTOME R			02/11/22 10:08	
	рН	5.28	Std. Units		02/11/22 10:08	
EPA 6010D	Calcium	0.87J	mg/L	1.0	02/23/22 23:30	
EPA 6020B	Arsenic	0.0024J	mg/L	0.0050	02/24/22 18:09	В
EPA 6020B	Barium	0.014	mg/L	0.0050	02/24/22 18:09	
EPA 6020B	Beryllium	0.000089J	mg/L	0.00050	02/24/22 18:09	
EPA 6020B	Chromium	0.0014J	mg/L	0.0050	02/24/22 18:09	В
EPA 6020B	Lithium	0.0015J	mg/L	0.030	02/24/22 18:09	
SM 2540C-2015	Total Dissolved Solids	60.0	mg/L	10.0	02/15/22 16:31	
EPA 300.0 Rev 2.1 1993	Chloride	7.0	mg/L	1.0	02/16/22 17:09	
EPA 300.0 Rev 2.1 1993	Sulfate	1.1	mg/L	1.0	02/16/22 17:09	
2587091015	YGWA-18I					
	Performed by	CUSTOME R			02/11/22 10:08	
	рН	5.98	Std. Units		02/11/22 10:08	
EPA 6010D	Calcium	5.1	mg/L	1.0	02/23/22 23:35	
EPA 6020B	Arsenic	0.0022J	mg/L	0.0050	02/24/22 18:15	В
EPA 6020B	Barium	0.021	mg/L	0.0050	02/24/22 18:15	
EPA 6020B	Lithium	0.0032J	mg/L	0.030	02/24/22 18:15	
SM 2540C-2015	Total Dissolved Solids	103	mg/L	10.0	02/15/22 16:31	
EPA 300.0 Rev 2.1 1993	Chloride	7.5	mg/L	1.0	02/16/22 17:22	
EPA 300.0 Rev 2.1 1993	Sulfate	0.51J	mg/L	1.0	02/16/22 17:22	
2587091016	YGWA-20S					
	Performed by	CUSTOME			02/11/22 10:08	
	. 5	R			<u></u> 10.00	

#### **REPORT OF LABORATORY ANALYSIS**



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
2587091016	YGWA-20S					
	рН	5.91	Std. Units		02/11/22 10:08	
EPA 6010D	Calcium	2.3	mg/L	1.0	02/23/22 23:40	
EPA 6020B	Arsenic	0.0021J	mg/L	0.0050	02/24/22 18:21	В
EPA 6020B	Barium	0.014	mg/L	0.0050	02/24/22 18:21	
EPA 6020B	Beryllium	0.000077J	mg/L	0.00050	02/24/22 18:21	
EPA 6020B	Lithium	0.00082J	mg/L	0.030	02/24/22 18:21	
SM 2540C-2015	Total Dissolved Solids	72.0	mg/L	10.0	02/15/22 16:31	
EPA 300.0 Rev 2.1 1993	Chloride	2.8	mg/L	1.0	02/16/22 17:36	
2587091017	YGWA-21I					
	Performed by	CUSTOME R			02/11/22 10:08	
	рН	6.84	Std. Units		02/11/22 10:08	
EPA 6010D	Calcium	9.8	mg/L	1.0	02/23/22 23:44	
EPA 6020B	Arsenic	0.0036J	mg/L	0.0050	02/24/22 18:27	В
EPA 6020B	Barium	0.011	mg/L	0.0050	02/24/22 18:27	
EPA 6020B	Cobalt	0.0078	mg/L	0.0050	02/24/22 18:27	
EPA 6020B	Lithium	0.0061J	mg/L	0.030	02/24/22 18:27	
SM 2540C-2015	Total Dissolved Solids	131	mg/L	10.0	02/15/22 16:31	
PA 300.0 Rev 2.1 1993	Chloride	1.7	mg/L	1.0	02/17/22 02:57	
PA 300.0 Rev 2.1 1993	Fluoride	0.10	mg/L	0.10	02/17/22 02:57	
EPA 300.0 Rev 2.1 1993	Sulfate	3.9	mg/L	1.0	02/17/22 02:57	
2587091018	YGWA-5I					
	Performed by	CUSTOME R			02/14/22 11:36	
	рН	5.14	Std. Units		02/14/22 11:36	
EPA 6010D	Calcium	2.5	mg/L	1.0	02/23/22 23:49	
PA 6020B	Arsenic	0.0016J	mg/L	0.0050	02/24/22 18:33	В
PA 6020B	Barium	0.020	mg/L	0.0050	02/24/22 18:33	
PA 6020B	Lithium	0.0036J	mg/L	0.030	02/24/22 18:33	
M 2540C-2015	Total Dissolved Solids	77.0	mg/L	10.0	02/17/22 16:07	
PA 300.0 Rev 2.1 1993	Chloride	4.4	mg/L	1.0	02/19/22 13:40	
PA 300.0 Rev 2.1 1993	Sulfate	2.4	mg/L	1.0	02/19/22 13:40	
2587091019	UP-DUP-3					
EPA 6010D	Calcium	2.6	mg/L	1.0	02/23/22 23:54	
EPA 6020B	Arsenic	0.0017J	mg/L	0.0050	02/24/22 18:39	В
EPA 6020B	Barium	0.020	mg/L	0.0050	02/24/22 18:39	
EPA 6020B	Lithium	0.0037J	mg/L	0.030		
SM 2540C-2015	Total Dissolved Solids	67.0	mg/L	10.0	02/17/22 16:07	
PA 300.0 Rev 2.1 1993	Chloride	4.4	mg/L		02/19/22 14:20	
PA 300.0 Rev 2.1 1993	Sulfate	2.4	mg/L		02/19/22 14:20	
2587091020	YGWA-14S					
	Performed by	CUSTOME R			02/14/22 11:36	
	pН	4.50	Std. Units		02/14/22 11:36	
PA 6010D	Calcium	1.3	mg/L	1.0	02/23/22 23:59	
EPA 6020B	Arsenic	0.0016J	mg/L		02/24/22 18:45	_



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Lab Sample ID	Client Sample ID					
Method	Parameters —	Result	Units	Report Limit	Analyzed	Qualifiers
92587091020	YGWA-14S					
EPA 6020B	Barium	0.0088	mg/L	0.0050	02/24/22 18:45	
EPA 6020B	Beryllium	0.00025J	mg/L	0.00050	02/24/22 18:45	
EPA 6020B	Boron	0.020J	mg/L	0.040	02/24/22 18:45	
EPA 6020B	Selenium	0.0014J	mg/L	0.0050	02/24/22 18:45	
SM 2540C-2015	Total Dissolved Solids	56.0	mg/L	10.0	02/17/22 16:07	
EPA 300.0 Rev 2.1 1993	Chloride	4.7	mg/L	1.0	02/19/22 14:34	
EPA 300.0 Rev 2.1 1993	Sulfate	6.2	mg/L	1.0	02/19/22 14:34	
2587091021	UP-DUP-2					
EPA 6010D	Calcium	1.2	mg/L	1.0	02/24/22 00:13	
EPA 6020B	Arsenic	0.0015J	mg/L	0.0050	02/24/22 18:51	В
EPA 6020B	Barium	0.0084	mg/L	0.0050	02/24/22 18:51	
EPA 6020B	Beryllium	0.00022J	mg/L	0.00050	02/24/22 18:51	
EPA 6020B	Boron	0.018J	mg/L	0.040	02/24/22 18:51	
SM 2540C-2015	Total Dissolved Solids	53.0	mg/L	10.0	02/17/22 16:07	
EPA 300.0 Rev 2.1 1993	Chloride	4.7	mg/L	1.0	02/19/22 14:47	
EPA 300.0 Rev 2.1 1993	Sulfate	6.1	mg/L	1.0	02/19/22 14:47	
2587091022	YGWA-30I					
	Performed by	CUSTOME R			02/14/22 11:37	
	рН	5.59	Std. Units		02/14/22 11:37	
EPA 6010D	Calcium	1.5	mg/L	1.0	02/24/22 00:18	
EPA 6020B	Arsenic	0.0014J	mg/L	0.0050	02/24/22 18:57	В
EPA 6020B	Barium	0.0077	mg/L	0.0050	02/24/22 18:57	
EPA 6020B	Cobalt	0.0038J	mg/L	0.0050	02/24/22 18:57	
EPA 6020B	Lithium	0.0014J	mg/L	0.030	02/24/22 18:57	
SM 2540C-2015	Total Dissolved Solids	66.0	mg/L	10.0	02/17/22 17:02	
EPA 300.0 Rev 2.1 1993	Chloride	2.1	mg/L	1.0	02/19/22 15:01	
EPA 300.0 Rev 2.1 1993	Sulfate	2.8	mg/L	1.0	02/19/22 15:01	
2587091023	YGWA-4I					
	Performed by	CUSTOME R			02/14/22 11:37	
	рН	5.95	Std. Units		02/14/22 11:37	
EPA 6010D	Calcium	7.5	mg/L		02/24/22 00:23	
EPA 6020B	Arsenic	0.0014J	mg/L	0.0050		В
EPA 6020B	Barium	0.013	mg/L		02/24/22 19:03	
EPA 6020B	Lithium	0.012J	mg/L		02/24/22 19:03	
SM 2540C-2015	Total Dissolved Solids	102	mg/L		02/17/22 17:02	
EPA 300.0 Rev 2.1 1993	Chloride	4.1	mg/L		02/19/22 15:14	
EPA 300.0 Rev 2.1 1993	Sulfate	7.7	mg/L	1.0	02/19/22 15:14	
2587091024	YGWA-5D					
	Performed by	CUSTOME R			02/14/22 11:37	
	рН	6.99	Std. Units		02/14/22 11:37	
EPA 6010D	Calcium	24.8	mg/L	1.0	02/24/22 00:27	
EPA 6020B	Arsenic	0.0040J	mg/L	0.0050	02/24/22 19:20	В
EPA 6020B	Barium	0.0084	mg/L	0.0050	02/24/22 19:20	

#### **REPORT OF LABORATORY ANALYSIS**



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587091024	YGWA-5D					
EPA 6020B	Boron	0.011J	mg/L	0.040	02/24/22 19:20	
EPA 6020B	Lithium	0.0076J	mg/L	0.030	02/24/22 19:20	
EPA 6020B	Molybdenum	0.00096J	mg/L	0.010	02/24/22 19:20	
SM 2540C-2015	Total Dissolved Solids	127	mg/L	10.0	02/17/22 16:07	
EPA 300.0 Rev 2.1 1993	Chloride	3.2	mg/L	1.0	02/19/22 15:54	
EPA 300.0 Rev 2.1 1993	Fluoride	0.055J	mg/L	0.10	02/19/22 15:54	
EPA 300.0 Rev 2.1 1993	Sulfate	4.9	mg/L	1.0	02/19/22 15:54	
92587091025	UP-EB-2					
EPA 6020B	Arsenic	0.0028J	mg/L	0.0050	02/24/22 19:32	В
92587091026	UP-FB-2					
EPA 6020B	Arsenic	0.0026J	mg/L	0.0050	02/24/22 19:38	В



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Sample: YGWA-39	Lab ID:	92587091001	Collecte	ed: 02/08/22	2 14:55	Received: 02/	/09/22 10:18 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	CUSTOME				1		02/09/22 12:38		
рН	R 5.78	Std. Units			1		02/09/22 12:38		
6010D ATL ICP	Analytical	Method: EPA	6010D Pre	paration Met	hod: Ef	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	θA				
Calcium	15.2	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 21:07	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA	6020B Prep	paration Met	hod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	€A				
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 19:41	7440-36-0	
Arsenic	0.0034J	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:41		В
Barium	0.041	mg/L	0.0050	0.00067	1	02/23/22 14:19			_
Beryllium	ND	mg/L	0.0050	0.00007	1	02/23/22 14:19			
Boron	0.13	•	0.040	0.000034	1	02/23/22 14:19			
Cadmium	0.00063	mg/L		0.0000	1		02/24/22 12:36 02/23/22 19:41		
		mg/L	0.00050						
Chromium	ND	mg/L	0.0050	0.0011	1		02/23/22 19:41		
Cobalt	0.0012J	mg/L	0.0050	0.00039	1		02/23/22 19:41		
_ead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 19:41		
_ithium	0.0080J	mg/L	0.030	0.00073	1		02/23/22 19:41		
Molybdenum	0.0035J	mg/L	0.010	0.00074	1		02/23/22 19:41		
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 19:41		
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 19:41	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Prep	paration Met	hod: EF	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	SA.				
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 15:52	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Total Dissolved Solids	248	mg/L	10.0	10.0	1		02/14/22 15:20		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	7.4	mg/L	1.0	0.60	1		02/15/22 08:56	16887-00-6	
Fluoride	0.052J	mg/L	0.10	0.050	1		02/15/22 08:56		
Sulfate	14.6	mg/L	1.0	0.50	1		02/15/22 08:56		



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Sample: YGWA-40	Lab ID:	92587091002	Collecte	ed: 02/08/22	2 13:22	Received: 02/	/09/22 10:18 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	CUSTOME				1		02/09/22 12:38		
Н	R 5.26	Std. Units			1		02/09/22 12:38		
6010D ATL ICP	Analytical	Method: EPA 6	6010D Pre	paration Met	hod: Ef	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	€A				
Calcium	6.0	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 21:12	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	6020B Prep	paration Met	hod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 19:47	7440-36-0	
Arsenic	0.0030J	mg/L	0.0050	0.0011	1	02/23/22 14:19			В
Barium	0.039	mg/L	0.0050	0.00067	1	02/23/22 14:19			_
Beryllium	0.00028J	mg/L	0.00050	0.000054	1		02/23/22 19:47		
Boron	0.074	mg/L	0.00030	0.000034	1		02/24/22 13:04		
Cadmium	0.074 ND	mg/L	0.0050	0.0000	1		02/23/22 19:47		
	ND ND	J	0.0050	0.00011			02/23/22 19:47		
Chromium	ND ND	mg/L			1				
Cobalt		mg/L	0.0050	0.00039	1		02/23/22 19:47		
_ead	ND	mg/L	0.0010	0.00089	1		02/23/22 19:47		
Lithium	0.00076J	mg/L	0.030	0.00073	1		02/23/22 19:47		
Molybdenum	ND	mg/L	0.010	0.00074	1		02/23/22 19:47		
Selenium	0.0014J	mg/L	0.0050	0.0014	1		02/23/22 19:47		
Γhallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 19:47	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	7470A Prep	paration Met	hod: EF	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	€A.				
Mercury	0.00013J	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 15:55	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Total Dissolved Solids	93.0	mg/L	10.0	10.0	1		02/14/22 15:20		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	2.1 1993					
-	Pace Ana	lytical Services	- Asheville						
Chloride	6.2	mg/L	1.0	0.60	1		02/15/22 09:10	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/15/22 09:10		
Sulfate	17.9	mg/L	1.0	0.50	1		02/15/22 09:10		



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Sample: YGWA-47	Lab ID:	92587091003	Collected	d: 02/08/22	2 11:40	Received: 02/	09/22 10:18 N	latrix: Water	
_			Report						
Parameters	Results _	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	CUSTOME R				1		02/09/22 12:39	)	
pΗ	5.40	Std. Units			1		02/09/22 12:39	)	
6010D ATL ICP	Analytical	Method: EPA 6	6010D Prepa	aration Me	thod: EF	PA 3010A			
	Pace Ana	lytical Services	- Peachtree	Corners, C	3A				
Calcium	9.4	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 21:26	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	6020B Prepa	aration Met	hod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtree	Corners, C	3A				
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 19:53	7440-36-0	
Arsenic	0.0027J	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:53		В
Barium	0.030	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 19:53		
Beryllium	0.000056J	mg/L		0.00007	1	02/23/22 14:19			
Boron	0.000363 0.015J	mg/L	0.00030	0.0086	1	02/23/22 14:19			
Cadmium	0.0153 ND	mg/L	0.040	0.0000	1	02/23/22 14:19			
		•			1				
Chromium	ND	mg/L	0.0050	0.0011		02/23/22 14:19			
Cobalt	0.0013J	mg/L	0.0050	0.00039	1	02/23/22 14:19			
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19			
Lithium	0.0039J	mg/L	0.030	0.00073	1	02/23/22 14:19			
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:19			
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19			
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 19:53	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Prepa	aration Met	hod: EP	A 7470A			
	Pace Ana	lytical Services	- Peachtree	Corners, C	3A				
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 15:57	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Ana	lytical Services	- Peachtree	Corners, 0	βA				
Total Dissolved Solids	151	mg/L	10.0	10.0	1		02/15/22 16:02	!	
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2.	1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	3.2	mg/L	1.0	0.60	1		02/15/22 09:52	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/15/22 09:52		M1
Sulfate	50.9	mg/L	1.0	0.50	1		02/15/22 09:52		M1



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Sample: GWA-2	Lab ID:	92587091004	Collecte	ed: 02/08/2	2 11:50	Received: 02/	09/22 10:18	Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
1 diameters						- Trepared	- Analyzeu		
Field Data	Analytica	Method:							
	Pace Ana	llytical Services	- Charlotte	)					
Performed by	CUSTOME				1		02/09/22 12:3	39	
Н	R 5.83	Std. Units			1		02/09/22 12:3	39	
6010D ATL ICP	Analytica	Method: EPA 6	010D Pre	paration Me	thod: EF	PA 3010A			
	•	lytical Services		•					
Calcium	25.6	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 21:1	31 7440-70-2	
		•					02/20/22 21.0	7440702	
6020 MET ICPMS	•	Method: EPA 6				PA 3005A			
	Pace Ana	llytical Services	- Peachtre	e Corners, 0	GΑ				
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 19:	59 7440-36-0	
Arsenic	0.0033J	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 19:	59 7440-38-2	В
Barium	0.037	mg/L	0.0050	0.00067	1	02/23/22 14:19		59 7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19		59 7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:19		59 7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19			
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19		59 7440-47-3	
Cobalt	0.072	mg/L	0.0050	0.00039	1	02/23/22 14:19		59 7440-48-4	
Copper	0.0012J	mg/L	0.0050	0.00059	1	02/23/22 14:19		59 7440-50-8	
• •	0.00123 ND	-	0.0030	0.00030		02/23/22 14:19		59 7440-30-8	
ead		mg/L			1				
Lithium As lub de succes	0.0031J	mg/L	0.030	0.00073	1	02/23/22 14:19		59 7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:19		59 7439-98-7	
Nickel	0.017	mg/L	0.0050	0.00071	1	02/23/22 14:19		59 7440-02-0	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19		59 7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	02/23/22 14:19		59 7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19		59 7440-28-0	
/anadium	ND	mg/L	0.010	0.0019	1	02/23/22 14:19	02/23/22 19:	59 7440-62-2	
Zinc	0.014	mg/L	0.010	0.0070	1	02/23/22 14:19	02/23/22 19:	59 7440-66-6	
7470 Mercury	Analytica	Method: EPA 7	7470A Prej	paration Met	thod: EF	PA 7470A			
•	-	lytical Services							
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 16:0	00 7439-97-6	
2540C Total Dissolved Solids	Analytica	Method: SM 2	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, 0	GΑ				
Total Dissolved Solids	283	mg/L	10.0	10.0	1		02/15/22 16:0	03	
300.0 IC Anions 28 Days	-	Method: EPA 3							
Chloride	5.7	mg/L	1.0	0.60	1		02/15/22 10:3	34 16887-00-6	
Fluoride	0.064J	mg/L	0.10	0.050	1			34 16984-48-8	
Idolido	107	mg/L	0.10	0.000			02/10/22 10.0	J- 1000+ <del>1</del> 0-0	



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Sample: UP-DUP-1	Lab ID:	92587091005	Collecte	ed: 02/08/2	2 00:00	Received: 02/	09/22 10:18 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
6010D ATL ICP	Analytical	Method: EPA 6	010D Pre	paration Me	thod: Ef	PA 3010A			
	Pace Anal	ytical Services	- Peachtre	e Corners, (	<b>S</b> A				
Calcium	25.6	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 21:36	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	020B Pre	paration Me	hod: EF	PA 3005A			
	Pace Anal	ytical Services	- Peachtre	e Corners, (	βA				
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 20:05	7440-36-0	
Arsenic	0.0034J	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:05	7440-38-2	В
Barium	0.034	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 20:05	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:19	02/23/22 20:05	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:19	02/23/22 20:05	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19	02/23/22 20:05	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:05	7440-47-3	
Cobalt	0.055	mg/L	0.0050	0.00039	1	02/23/22 14:19	02/23/22 20:05	7440-48-4	
Copper	0.0012J	mg/L	0.0050	0.00050	1	02/23/22 14:19	02/23/22 20:05	7440-50-8	
₋ead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19	02/23/22 20:05	7439-92-1	
_ithium	0.0027J	mg/L	0.030	0.00073	1	02/23/22 14:19	02/23/22 20:05	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 20:05	7439-98-7	
Nickel	0.014	mg/L	0.0050	0.00071	1	02/23/22 14:19	02/23/22 20:05	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 20:05	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	02/23/22 14:19	02/23/22 20:05	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 20:05	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	02/23/22 14:19	02/23/22 20:05	7440-62-2	
Zinc	0.012	mg/L	0.010	0.0070	1	02/23/22 14:19	02/23/22 20:05	7440-66-6	
7470 Mercury	Analytical	Method: EPA 7	'470A Pre	paration Met	hod: EF	PA 7470A			
	Pace Anal	ytical Services	- Peachtre	e Corners, (	ЭΑ				
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 16:03	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 25	540C-2015						
	Pace Anal	ytical Services	- Peachtre	e Corners, (	3A				
Total Dissolved Solids	271	mg/L	10.0	10.0	1		02/15/22 16:03		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	2.1 1993					
	Pace Anal	ytical Services	- Asheville						
Chloride	5.7	mg/L	1.0	0.60	1		02/15/22 10:48	16887-00-6	
Fluoride	0.059J	mg/L	0.10	0.050	1		02/15/22 10:48		
Sulfate	102	mg/L	2.0	1.0	2		02/15/22 18:34		



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Sample: YGWA-1I	Lab ID:	92587091006	Collected	d: 02/09/22	2 13:45	Received: 02/	10/22 17:00 N	latrix: Water	
			Report						
Parameters	Results -	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	CUSTOME R				1		02/11/22 10:07		
рН	6.24	Std. Units			1		02/11/22 10:07		
6010D ATL ICP	Analytical	Method: EPA 6	6010D Prepa	aration Me	hod: EF	A 3010A			
	Pace Ana	lytical Services	- Peachtree	Corners, C	€A				
Calcium	2.1	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 21:50	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	6020B Prepa	aration Met	hod: EP	A 3005A			
	•	lytical Services	•						
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 20:23	7440-36-0	
Arsenic	0.0033J	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:23		В
Barium	0.0088	mg/L	0.0050	0.00067	1	02/23/22 14:19	02/23/22 20:23		
Beryllium	ND	mg/L		0.000054	1	02/23/22 14:19			
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:19			
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:19			
Chromium	ND ND	mg/L	0.0050	0.00011	1	02/23/22 14:19			
Cobalt	0.0023J	mg/L	0.0050	0.0011	1	02/23/22 14:19			
	0.00233 ND	ū		0.00039		02/23/22 14:19			
Lead		mg/L	0.0010		1				
Lithium	0.0027J	mg/L	0.030	0.00073	1	02/23/22 14:19			
Molybdenum	0.0055J	mg/L	0.010	0.00074	1	02/23/22 14:19			
Selenium 	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 20:23		
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 20:23	3 7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Prepa	aration Met	hod: EP	A 7470A			
	Pace Ana	lytical Services	- Peachtree	Corners, 0	SA.				
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 16:11	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	•	lytical Services		Corners, C	βA				
Total Dissolved Solids	57.0	mg/L	10.0	10.0	1		02/15/22 16:30	)	
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2.	1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	1.3	mg/L	1.0	0.60	1		02/16/22 13:32	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 13:32	16984-48-8	
Sulfate	5.1	mg/L	1.0	0.50	1		02/16/22 13:32		



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Sample: YGWA-1D	Lab ID:	92587091007	Collected	d: 02/09/22	14:45	Received: 02/	10/22 17:00 M	atrix: Water	
Davasastava	Daguita	Units	Report	MDI	DE	Duamanad	A a l a -l	CACNI	0
Parameters	Results	Units	Limit	MDL .	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	CUSTOME R				1		02/11/22 10:07		
рН	7.12	Std. Units			1		02/11/22 10:07		
6010D ATL ICP	Analytical	Method: EPA 6	6010D Prepa	aration Met	hod: EF	PA 3010A			
	•	lytical Services							
Calcium	14.9	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 21:55	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	6020B Prepa	aration Metl	nod: EF	PA 3005A			
	•	lytical Services	•						
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 20:41	7440-36-0	
Arsenic	0.0031J	mg/L	0.0050	0.00076	1	02/23/22 14:19	02/23/22 20:41		В
Barium	0.0067	mg/L	0.0050	0.0011	1	02/23/22 14:19	02/23/22 20:41		Ь
	0.0007 ND	•			1	02/23/22 14:19			
Beryllium		mg/L		0.000054					
Boron	ND	mg/L	0.040	0.0086	1		02/23/22 20:41		
Cadmium	ND	mg/L	0.00050	0.00011	1		02/23/22 20:41		
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:19			
Cobalt	0.00072J	mg/L	0.0050	0.00039	1		02/23/22 20:41		
Lead	ND	mg/L	0.0010	0.00089	1		02/23/22 20:41		
Lithium	0.013J	mg/L	0.030	0.00073	1		02/23/22 20:41		
Molybdenum	0.0093J	mg/L	0.010	0.00074	1	02/23/22 14:19	02/23/22 20:41	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 20:41	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 20:41	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Prepa	aration Meth	nod: EF	A 7470A			
•	Pace Ana	lytical Services	- Peachtree	Corners, G	iΑ				
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 16:13	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	•	lytical Services		Corners, G	iΑ				
Total Dissolved Solids	105	mg/L	10.0	10.0	1		02/15/22 16:30		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2.	1 1993					
	•	lytical Services		-					
Chloride	1.0	mg/L	1.0	0.60	1		02/16/22 13:46	16887-00-6	M1
Fluoride	0.057J	mg/L	0.10	0.050	1		02/16/22 13:46		M1
Sulfate	9.3	mg/L	1.0	0.50	1		02/16/22 13:46		M1



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Parameters Field Data	Results	Units	Report Limit	MDL					
	Analytical		Limit	MDI					
Field Data	•			IVIDE	DF	Prepared	Analyzed	CAS No.	Qua
	D A	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	CUSTOME				1		02/11/22 10:07		
рН	R 5.89	Std. Units			1		02/11/22 10:07		
6010D ATL ICP	Analytical	Method: EPA	6010D Pre	paration Met	hod: Ef	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	<b>S</b> A				
Calcium	23.4	mg/L	1.0	0.12	1	02/23/22 14:19	02/23/22 21:59	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA	6020B Prep	paration Met	hod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	€A				
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:19	02/23/22 20:47	7440-36-0	
Arsenic	0.0037J	mg/L	0.0050	0.0011	1	02/23/22 14:19			В
Barium	0.0029J	mg/L	0.0050	0.00067	1	02/23/22 14:19			
Beryllium	0.00230 ND	mg/L	0.0050	0.00007	1	02/23/22 14:19			
Boron	ND ND	•	0.040	0.000034	1	02/23/22 14:19			
Cadmium	ND ND	mg/L		0.0000	1		02/23/22 20:47		
		mg/L	0.00050						
Chromium	ND	mg/L	0.0050	0.0011	1		02/23/22 20:47		
Cobalt	ND	mg/L	0.0050	0.00039	1		02/23/22 20:47		
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:19			
_ithium	0.0060J	mg/L	0.030	0.00073	1		02/23/22 20:47		
Molybdenum	0.0057J	mg/L	0.010	0.00074	1		02/23/22 20:47		
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:19	02/23/22 20:47		
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:19	02/23/22 20:47	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Prep	paration Met	hod: EF	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Mercury	ND	mg/L	0.00020	0.00013	1	02/16/22 08:00	02/16/22 16:16	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Total Dissolved Solids	156	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	1.0J	mg/L	1.0	0.60	1		02/16/22 14:28	16887-00-6	
Fluoride	0.094J	mg/L	0.10	0.050	1		02/16/22 14:28		
Sulfate	18.0	mg/L	1.0	0.50	1		02/16/22 14:28		



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Parameters									
Parameters			Report						
- Tarameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	CUSTOME				1		02/11/22 10:07		
Н	R 7.66	Std. Units			1		02/11/22 10:07		
6010D ATL ICP	Analytical	Method: EPA 6	6010D Pre	paration Met	hod: El	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	SA.				
Calcium	23.7	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 22:42	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	6020B Prep	paration Met	hod: Ef	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 17:09	7440-36-0	
Arsenic	0.0018J	mg/L	0.0050	0.0011	1		02/24/22 17:09		В
Barium	0.0031J	mg/L	0.0050	0.00067	1		02/24/22 17:09		
Beryllium	ND	mg/L	0.0050	0.00007	1		02/24/22 17:09		
Boron	ND ND	•	0.00030	0.000034	1		02/24/22 17:09		
Cadmium	ND ND	mg/L		0.0000	1		02/24/22 17:09		
		mg/L	0.00050						
Chromium	ND	mg/L	0.0050	0.0011	1		02/24/22 17:09		
Cobalt	ND	mg/L	0.0050	0.00039	1		02/24/22 17:09		
_ead	ND	mg/L	0.0010	0.00089	1		02/24/22 17:09		
_ithium	0.021J	mg/L	0.030	0.00073	1		02/24/22 17:09		
Molybdenum	0.0087J	mg/L	0.010	0.00074	1		02/24/22 17:09		
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 17:09	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 17:09	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Prep	paration Met	hod: EF	PA 7470A			
·	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Mercury	ND	mg/L	0.00020	0.00013	1	02/18/22 10:00	02/18/22 13:46	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Total Dissolved Solids	145	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	1.1	mg/L	1.0	0.60	1		02/16/22 14:42	16887-00-6	
Fluoride	0.097J	mg/L	0.10	0.050	1		02/16/22 14:42		
Sulfate	16.0	mg/L	1.0	0.50	1		02/16/22 14:42		



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Sample: YGWA-3D	Lab ID:	92587091010	Collecte	d: 02/09/22	2 10:20	Received: 02/	/10/22 17:00 M	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	CUSTOME R				1		02/11/22 10:07		
рН	7.97	Std. Units			1		02/11/22 10:07		
6010D ATL ICP	•	Method: EPA 6 lytical Services				PA 3010A			
Calcium	30.3	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 22:47	7440-70-2	M1
6020 MET ICPMS	•	Method: EPA 6 lytical Services				PA 3005A			
Antimony	0.0018J	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 17:33	7440-36-0	
Arsenic	0.0020J	mg/L	0.0050	0.0011	1		02/24/22 17:33		В
Barium	0.0051	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 17:33	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1		02/24/22 17:33		
Boron	0.010J	mg/L	0.040	0.0086	1		02/24/22 17:33		
Cadmium	ND	mg/L	0.00050	0.00011	1		02/24/22 17:33		
Chromium	ND	mg/L	0.0050	0.0011	1		02/24/22 17:33		
Cobalt	ND	mg/L	0.0050	0.00039	1		02/24/22 17:33		
Lead	ND	mg/L	0.0010	0.00089	1		02/24/22 17:33		
Lithium	0.026J	mg/L	0.030	0.00073	1		02/24/22 17:33		
Molybdenum	0.013	mg/L	0.010	0.00074	1		02/24/22 17:33		
Selenium	ND	mg/L	0.0050	0.0014	1		02/24/22 17:33		
Thallium	ND	mg/L	0.0010	0.00018	1		02/24/22 17:33		
7470 Mercury	Analytical	Method: EPA 7	7470A Prep	aration Met	hod: EF	A 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Mercury	ND	mg/L	0.00020	0.00013	1	02/18/22 10:00	02/18/22 13:48	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	SA.				
Total Dissolved Solids	154	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	.1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	1.1	mg/L	1.0	0.60	1		02/16/22 14:55	16887-00-6	
Fluoride	0.43	mg/L	0.10	0.050	1		02/16/22 14:55		
Sulfate	7.2	mg/L	1.0	0.50	1		02/16/22 14:55		



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Sample: UP-EB-1	Lab ID:	92587091011		ed: 02/09/22	2 13:06	Received: 02/	/10/22 17:00 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
6010D ATL ICP	•	Method: EPA				PA 3010A			
Calcium	ND	mg/L	1.0	0.12	1	02/22/22 14:15	02/23/22 23:06	7440 70 2	
Salcium	ND	IIIg/∟	1.0	0.12	'	02/23/22 14.13	02/23/22 23.00	7440-70-2	
6020 MET ICPMS	•	Method: EPA ytical Service:		•		PA 3005A			
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 17:39	7440-36-0	
Arsenic	0.0019J	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 17:39	7440-38-2	В
Barium	ND	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 17:39	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 17:39	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 17:39	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 17:39	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 17:39	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 17:39	7440-48-4	
∟ead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 17:39	7439-92-1	
_ithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 17:39	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 17:39	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 17:39	7782-49-2	
Γhallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 17:39	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Prej	paration Met	thod: EF	PA 7470A			
	Pace Anal	ytical Services	s - Peachtre	e Corners, 0	GΑ				
Mercury	ND	mg/L	0.00020	0.00013	1	02/18/22 10:00	02/18/22 13:51	7439-97-6	
2540C Total Dissolved Solids	•	Method: SM 2 ytical Services			ЭA				
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days	•	Method: EPA ytical Services							
Chloride	ND	mg/L	1.0	0.60	1		02/16/22 15:09	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 15:09		
Sulfate	ND	mg/L	1.0	0.50	1		02/16/22 15:09		



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Sample: UP-FB-1	Lab ID:	92587091012		ed: 02/09/22	2 10:47	Received: 02/	10/22 17:00 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
6010D ATL ICP	•	Method: EPA				PA 3010A			
	Pace Anal	ytical Services	s - Peachtre	e Corners, C	SA.				
Calcium	ND	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 23:20	7440-70-2	
6020 MET ICPMS	•	Method: EPA ytical Services		•		PA 3005A			
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 17:45	7440-36-0	
Arsenic	0.0018J	mg/L	0.0050	0.0011	1		02/24/22 17:45		В
Barium	ND	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 17:45	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 17:45	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 17:45	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 17:45	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 17:45	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 17:45	7440-48-4	
_ead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 17:45	7439-92-1	
_ithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 17:45	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 17:45	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 17:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 17:45	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Prej	paration Met	hod: EF	PA 7470A			
	Pace Anal	ytical Services	s - Peachtre	e Corners, C	βA				
Mercury	ND	mg/L	0.00020	0.00013	1	02/18/22 10:00	02/18/22 13:53	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	2540C-2015						
	Pace Anal	ytical Services	s - Peachtre	e Corners, C	βA				
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days	-	Method: EPA ytical Services							
Chloride	ND	mg/L	1.0	0.60	1		02/16/22 15:23	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 15:23		
Sulfate	ND	mg/L	1.0	0.50	1		02/16/22 15:23		



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Sample: YGWA-17S	Lab ID:	92587091013	Collecte	ed: 02/09/22	2 10:20	Received: 02/	10/22 17:00 M	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	CUSTOME R				1		02/11/22 10:08		
рН	5.53	Std. Units			1		02/11/22 10:08		
6010D ATL ICP	•	Method: EPA 6				PA 3010A			
Calcium	2.8	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 23:25	7440-70-2	
6020 MET ICPMS	•	Method: EPA 6 lytical Services				PA 3005A			
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 17:51	7440-36-0	
Arsenic	0.0024J	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 17:51	7440-38-2	В
Barium	0.017	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 17:51	7440-39-3	
Beryllium	0.00011J	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 17:51	7440-41-7	
Boron	0.0098J	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 17:51	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 17:51	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 17:51	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 17:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 17:51	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 17:51	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1		02/24/22 17:51		
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 17:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1		02/24/22 17:51		
7470 Mercury	Analytical	Method: EPA	7470A Prep	aration Met	hod: EF	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	€A.				
Mercury	ND	mg/L	0.00020	0.00013	1	02/18/22 10:00	02/18/22 13:56	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Total Dissolved Solids	81.0	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	10.9	mg/L	1.0	0.60	1		02/16/22 16:55	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 16:55		
Sulfate	4.8	mg/L	1.0	0.50	1		02/16/22 16:55		



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Sample: YGWA-18S	Lab ID:	92587091014	Collected	d: 02/09/2	2 12:24	Received: 02/	10/22 17:00 M	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	CUSTOME R				1		02/11/22 10:08		
pH	5.28	Std. Units			1		02/11/22 10:08		
6010D ATL ICP	Analytical	Method: EPA 6	6010D Prep	aration Me	thod: EF	PA 3010A			
	Pace Ana	lytical Services	- Peachtree	Corners, 0	GΑ				
Calcium	0.87J	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 23:30	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	6020B Prep	aration Me	thod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtree	Corners, 0	GΑ				
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 18:09	7440-36-0	
Arsenic	0.0024J	mg/L	0.0050	0.0011	1	02/23/22 14:12			В
Barium	0.014	mg/L	0.0050	0.00067	1		02/24/22 18:09		
Beryllium	0.000089J	mg/L		0.000054	1		02/24/22 18:09		
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12			
Cadmium	ND	mg/L	0.0050	0.00011	1	02/23/22 14:12			
Chromium	0.0014J	mg/L	0.0050	0.00011	1	02/23/22 14:12			В
Cobalt	0.00143 ND	mg/L	0.0050	0.00011	1		02/24/22 18:09		Ь
Lead	ND ND	mg/L	0.0030	0.00039	1	02/23/22 14:12			
Leau Lithium	0.0015J	•		0.00039	1	02/23/22 14:12			
		mg/L	0.030 0.010	0.00073	1	02/23/22 14:12			
Molybdenum	ND	mg/L							
Selenium	ND	mg/L	0.0050	0.0014	1		02/24/22 18:09		
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 18:09	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Prepa	aration Met	thod: EF	A 7470A			
	Pace Ana	lytical Services	- Peachtree	Corners, 0	GΑ				
Mercury	ND	mg/L	0.00020	0.00013	1	02/18/22 10:00	02/18/22 13:59	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Ana	lytical Services	- Peachtree	Corners, 0	GΑ				
Total Dissolved Solids	60.0	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2.	1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	7.0	mg/L	1.0	0.60	1		02/16/22 17:09	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 17:09		
Sulfate	1.1	mg/L	1.0	0.50	1		02/16/22 17:09		



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Sample: YGWA-18I	Lab ID:	92587091015	Collecte	ed: 02/09/22	2 14:31	Received: 02/	10/22 17:00 N	latrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	CUSTOME R				1		02/11/22 10:08	1	
рН	5.98	Std. Units			1		02/11/22 10:08		
6010D ATL ICP	•	Method: EPA 6 lytical Services				PA 3010A			
Calcium	5.1	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 23:35	7440-70-2	
6020 MET ICPMS	•	Method: EPA 6 lytical Services				PA 3005A			
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 18:15	7440-36-0	
Arsenic	0.0022J	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:15	7440-38-2	В
Barium	0.021	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 18:15	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12			
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 18:15	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12			
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12			
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12			
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12			
Lithium	0.0032J	mg/L	0.030	0.00073	1	02/23/22 14:12			
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12			
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12			
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12			
7470 Mercury	Analytical	Method: EPA 7	7470A Prep	paration Met	hod: EF	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Mercury	ND	mg/L	0.00020	0.00013	1	02/18/22 10:00	02/18/22 14:07	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Total Dissolved Solids	103	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	.1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	7.5	mg/L	1.0	0.60	1		02/16/22 17:22	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 17:22		
Sulfate	0.51J	mg/L	1.0	0.50	1		02/16/22 17:22		



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Sample: YGWA-20S	Lab ID:	92587091016	Collected	d: 02/09/22	2 16:19	Received: 02/	10/22 17:00 M	atrix: Water	
5 .	<b>5</b>	11.2	Report	MDI	D.F.	5		0404	•
Parameters	Results -	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	CUSTOME R				1		02/11/22 10:08		
рН	5.91	Std. Units			1		02/11/22 10:08		
6010D ATL ICP	•	Method: EPA				PA 3010A			
Calcium	2.3	lytical Services mg/L	1.0	0.12	1	02/22/22 14:15	02/23/22 23:40	7440 70 2	
Salcium	2.3	IIIg/∟	1.0	0.12	'	02/23/22 14.15	02/23/22 23.40	7440-70-2	
6020 MET ICPMS	•	Method: EPA 6	•			A 3005A			
	Pace Ana	lytical Services	- Peachtree	Corners, C	iΑ				
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 18:21	7440-36-0	
Arsenic	0.0021J	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:21	7440-38-2	В
Barium	0.014	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 18:21	7440-39-3	
Beryllium	0.000077J	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 18:21	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 18:21	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 18:21	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:21	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1		02/24/22 18:21		
Lead	ND	mg/L	0.0010	0.00089	1		02/24/22 18:21		
_ithium	0.00082J	mg/L	0.030	0.00073	1		02/24/22 18:21		
Molybdenum	ND	mg/L	0.010	0.00074	1		02/24/22 18:21		
Selenium	ND	mg/L	0.0050	0.0014	1		02/24/22 18:21		
Thallium	ND	mg/L	0.0010	0.00014	1		02/24/22 18:21		
		· ·					02/2 1/22 10:21	7 1 10 20 0	
7470 Mercury	•	Method: EPA 7 lytical Services	•			A 7470A			
Mercury	ND	mg/L	0.00020	0.00013	1	02/18/22 10:00	02/18/22 14:09	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
20400 Total Dissolved Collas	•	lytical Services		Corners, C	€A				
Total Dissolved Solids	72.0	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days	•	Method: EPA 3		1 1993					
Chloride	2.8	mg/L	1.0	0.60	1		02/16/22 17:36	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 17:36		
Sulfate	ND ND	mg/L	1.0	0.50	1		02/16/22 17:36		



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Sample: YGWA-21I	Lab ID:	92587091017	Collecte	ed: 02/09/22	2 17:40	Received: 02/	10/22 17:00 N	latrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	CUSTOME R				1		02/11/22 10:08	1	
рН	6.84	Std. Units			1		02/11/22 10:08		
6010D ATL ICP	•	Method: EPA 6 lytical Services				PA 3010A			
Calcium	9.8	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 23:44	7440-70-2	
6020 MET ICPMS	•	Method: EPA 6 lytical Services				PA 3005A			
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 18:27	7440-36-0	
Arsenic	0.0036J	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:27	7440-38-2	В
Barium	0.011	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 18:27	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 18:27	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 18:27	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 18:27	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:27	7440-47-3	
Cobalt	0.0078	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 18:27	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 18:27	7439-92-1	
Lithium	0.0061J	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 18:27	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12			
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 18:27	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12			
7470 Mercury	Analytical	Method: EPA 7	7470A Prep	aration Met	hod: EF	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	€A.				
Mercury	ND	mg/L	0.00020	0.00013	1	02/18/22 10:00	02/18/22 14:12	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 25	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	θA				
Total Dissolved Solids	131	mg/L	10.0	10.0	1		02/15/22 16:31		
300.0 IC Anions 28 Days	•	Method: EPA 3		2.1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	1.7	mg/L	1.0	0.60	1		02/17/22 02:57	16887-00-6	
Fluoride	0.10	mg/L	0.10	0.050	1		02/17/22 02:57		
Sulfate	3.9	mg/L	1.0	0.50	1		02/17/22 02:57		



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Sample: YGWA-5I	Lab ID:	92587091018	Collecte	ed: 02/10/22	2 17:27	Received: 02/	11/22 16:45 M	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	CUSTOME R				1		02/14/22 11:36		
рН	5.14	Std. Units			1		02/14/22 11:36		
6010D ATL ICP	•	Method: EPA (				PA 3010A			
Calcium	2.5	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 23:49	7440-70-2	
6020 MET ICPMS	•	Method: EPA (				PA 3005A			
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 18:33	7440-36-0	
Arsenic	0.0016J	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:33	7440-38-2	В
Barium	0.020	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 18:33	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1		02/24/22 18:33		
Boron	ND	mg/L	0.040	0.0086	1		02/24/22 18:33		
Cadmium	ND	mg/L	0.00050	0.00011	1		02/24/22 18:33		
Chromium	ND	mg/L	0.0050	0.0011	1		02/24/22 18:33		
Cobalt	ND	mg/L	0.0050	0.00039	1		02/24/22 18:33		
Lead	ND	mg/L	0.0010	0.00089	1		02/24/22 18:33		
Lithium	0.0036J	mg/L	0.030	0.00073	1		02/24/22 18:33		
Molybdenum	ND	mg/L	0.010	0.00074	1		02/24/22 18:33		
Selenium	ND	mg/L	0.0050	0.0014	1		02/24/22 18:33		
Thallium	ND	mg/L	0.0010	0.00018	1		02/24/22 18:33		
7470 Mercury	Analytical	Method: EPA	7470A Prer	paration Met	hod: EF	PA 7470A			
•		lytical Services							
Mercury	ND	mg/L	0.00020	0.00013	1	02/18/22 10:00	02/18/22 14:14	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	€A				
Total Dissolved Solids	77.0	mg/L	10.0	10.0	1		02/17/22 16:07		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	4.4	mg/L	1.0	0.60	1		02/19/22 13:40	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 13:40		
Sulfate	2.4	mg/L	1.0	0.50	1		02/19/22 13:40		



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Sample: UP-DUP-3	Lab ID:	92587091019	Collecte	ed: 02/10/22	2 00:00	Received: 02/	11/22 16:45 Ma	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			
	Pace Analy	tical Services	<ul> <li>Peachtre</li> </ul>	e Corners, C	<b>S</b> A				
Calcium	2.6	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 23:54	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	020B Pre	paration Met	hod: EF	'A 3005A			
	Pace Analy	tical Services	- Peachtre	e Corners, C	€A				
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 18:39	7440-36-0	
Arsenic	0.0017J	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:39	7440-38-2	В
Barium	0.020	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 18:39	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 18:39	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 18:39	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 18:39	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:39	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 18:39	7440-48-4	
₋ead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 18:39	7439-92-1	
_ithium	0.0037J	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 18:39	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 18:39	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 18:39	7782-49-2	
Γhallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 18:39	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	470A Pre	paration Met	hod: EP	A 7470A			
	Pace Analy	tical Services	- Peachtre	e Corners, C	€A				
Mercury	ND	mg/L	0.00020	0.00013	1	02/18/22 10:00	02/18/22 14:17	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 25	540C-2015						
	Pace Analy	tical Services	- Peachtre	e Corners, C	βA				
Total Dissolved Solids	67.0	mg/L	10.0	10.0	1		02/17/22 16:07		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	00.0 Rev 2	2.1 1993					
	Pace Anal	tical Services	- Asheville						
Chloride	4.4	mg/L	1.0	0.60	1		02/19/22 14:20	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 14:20		
Sulfate	2.4	mg/L	1.0	0.50	1		02/19/22 14:20		



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Sample: YGWA-14S	Lab ID:	92587091020	Collected	d: 02/10/22	2 16:20	Received: 02/	11/22 16:45 M	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	CUSTOME				1		02/14/22 11:36		
рН	R 4.50	Std. Units			1		02/14/22 11:36		
6010D ATL ICP	Analytical	Method: EPA 6	6010D Prepa	aration Met	hod: EF	PA 3010A			
	Pace Ana	lytical Services	- Peachtree	Corners, C	SA.				
Calcium	1.3	mg/L	1.0	0.12	1	02/23/22 14:15	02/23/22 23:59	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	6020B Prepa	aration Met	hod: EF	PA 3005A			
	•	lytical Services	•						
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 18:45	7440-36-0	
Arsenic	0.0016J	mg/L	0.0050	0.0011	1	02/23/22 14:12			В
Barium	0.0088	mg/L	0.0050	0.00067	1		02/24/22 18:45		
Beryllium	0.00025J	mg/L		0.000054	1		02/24/22 18:45		
Boron	0.020J	mg/L	0.040	0.0086	1	02/23/22 14:12			
Cadmium	ND	mg/L	0.00050	0.0000	1	02/23/22 14:12			
Chromium	ND	mg/L	0.0050	0.00011	1	02/23/22 14:12			
Cobalt	ND ND	mg/L	0.0050	0.00011	1		02/24/22 18:45		
Lead	ND ND	J		0.00039	1	02/23/22 14:12			
		mg/L	0.0010						
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:12			
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12			
Selenium	0.0014J	mg/L	0.0050	0.0014	1		02/24/22 18:45		
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 18:45	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Prepa	aration Met	hod: EP	A 7470A			
	Pace Ana	lytical Services	- Peachtree	Corners, C	SA.				
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:45	02/22/22 10:38	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Ana	lytical Services	- Peachtree	Corners, C	<b>S</b> A				
Total Dissolved Solids	56.0	mg/L	10.0	10.0	1		02/17/22 16:07		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2.	1 1993					
7-	•	lytical Services							
Chloride	4.7	mg/L	1.0	0.60	1		02/19/22 14:34	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 14:34		
Sulfate	6.2	mg/L	1.0	0.50	1		02/19/22 14:34		



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Sample: UP-DUP-2	Lab ID:	9258709102	1 Collecte	ed: 02/10/2	2 00:00	Received: 02/	'11/22 16:45 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
T didifficiers						- Tropared			
6010D ATL ICP	Analytical	Method: EPA	6010D Pre	paration Me	thod: El	PA 3010A			
	Pace Anal	ytical Service	s - Peachtre	e Corners, 0	GΑ				
Calcium	1.2	mg/L	1.0	0.12	1	02/23/22 14:15	02/24/22 00:13	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Me	thod: El	PA 3005A			
	Pace Anal	ytical Service	s - Peachtre	e Corners, 0	GA				
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 18:51	7440-36-0	
Arsenic	0.0015J	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:51	7440-38-2	В
Barium	0.0084	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 18:51	7440-39-3	
Beryllium	0.00022J	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 18:51	7440-41-7	
Boron	0.018J	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 18:51	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 18:51	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 18:51	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 18:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 18:51	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 18:51	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 18:51	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 18:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 18:51	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Prej	paration Met	thod: EF	PA 7470A			
·	Pace Anal	ytical Service	s - Peachtre	e Corners, 0	GA				
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:45	02/22/22 10:55	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	2540C-2015						
	Pace Anal	ytical Service	s - Peachtre	e Corners, 0	GΑ				
Total Dissolved Solids	53.0	mg/L	10.0	10.0	1		02/17/22 16:07		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Anal	ytical Service	s - Asheville	:					
Chloride	4.7	mg/L	1.0	0.60	1		02/19/22 14:47	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 14:47	16984-48-8	
Sulfate	6.1	mg/L	1.0	0.50	1		02/19/22 14:47	14808-79-8	



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Sample: YGWA-30I	Lab ID:	92587091022	Collecte	ed: 02/11/22	09:20	Received: 02/	/11/22 16:45 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	CUSTOME				1		02/14/22 11:37		
рН	R 5.59	Std. Units			1		02/14/22 11:37		
6010D ATL ICP	Analytical	Method: EPA 6	6010D Pre	paration Met	hod: Ef	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	SA.				
Calcium	1.5	mg/L	1.0	0.12	1	02/23/22 14:15	02/24/22 00:18	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	6020B Pre	paration Met	hod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	SA.				
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 18:57	7440-36-0	
Arsenic	0.0014J	mg/L	0.0050	0.0011	1		02/24/22 18:57		В
Barium	0.0077	mg/L	0.0050	0.00067	1		02/24/22 18:57		_
Beryllium	ND	mg/L	0.00050	0.000054	1		02/24/22 18:57		
Boron	ND	mg/L	0.040	0.0086	1		02/24/22 18:57		
Cadmium	ND	mg/L	0.00050	0.00011	1		02/24/22 18:57		
Chromium	ND ND	mg/L	0.0050	0.0011	1		02/24/22 18:57		
Cobalt	0.0038J	mg/L	0.0050	0.00011	1		02/24/22 18:57		
Lead	ND	mg/L	0.0030	0.00089	1		02/24/22 18:57		
Lithium	0.0014J	•	0.030	0.0003	1		02/24/22 18:57		
	0.00143 ND	mg/L mg/L	0.030	0.00073			02/24/22 18:57		
Molybdenum	ND ND	J		0.00074	1 1		02/24/22 18:57		
Selenium		mg/L	0.0050						
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 18:57	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	7470A Prep	paration Met	hod: EF	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:45	02/22/22 10:58	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	SA.				
Total Dissolved Solids	66.0	mg/L	10.0	10.0	1		02/17/22 17:02		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	2.1 1993					
•	Pace Ana	lytical Services	- Asheville						
Chloride	2.1	mg/L	1.0	0.60	1		02/19/22 15:01	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 15:01		
Sulfate	2.8	mg/L	1.0	0.50	1		02/19/22 15:01		



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Sample: YGWA-4I	Lab ID:	92587091023	Collecte	d: 02/11/22	2 10:40	Received: 02/	'11/22 16:45 M	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	CUSTOME R				1		02/14/22 11:37		
рН	5.95	Std. Units			1		02/14/22 11:37		
6010D ATL ICP	•	Method: EPA 6 lytical Services				PA 3010A			
Calcium	7.5	mg/L	1.0	0.12	1	02/23/22 14:15	02/24/22 00:23	7440-70-2	
6020 MET ICPMS	•	Method: EPA 6				A 3005A			
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 19:03	7440-36-0	
Arsenic	0.0014J	mg/L	0.0050	0.00076	1	02/23/22 14:12			В
Barium	0.013	mg/L	0.0050	0.00067	1	02/23/22 14:12			Ь
Beryllium	ND	mg/L		0.00007	1	02/23/22 14:12			
Boron	ND ND	mg/L	0.00030	0.000054	1	02/23/22 14:12			
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12			
Chromium	ND	mg/L	0.0050	0.00011	1	02/23/22 14:12			
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12			
Lead	ND	mg/L	0.0030	0.00089	1	02/23/22 14:12			
Lithium	0.012J	mg/L	0.030	0.00073	1	02/23/22 14:12			
Molybdenum	ND	mg/L	0.030	0.00073	1	02/23/22 14:12			
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12			
Thallium	ND	mg/L	0.0010	0.00014	1	02/23/22 14:12			
7470 Mercury	Analytical	Method: EPA	7470A Prep	aration Met	hod: EP	A 7470A			
· · · · · · · · · · · · · · · · · · ·	•	lytical Services				-			
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:45	02/22/22 11:01	7439-97-6	
2540C Total Dissolved Solids	•	Method: SM 2 lytical Services		e Corners, 0	ΘA				
Total Dissolved Solids	102	mg/L	10.0	10.0	1		02/17/22 17:02		
300.0 IC Anions 28 Days	•	Method: EPA 3		.1 1993					
Chloride	4.1	mg/L	1.0	0.60	1		02/19/22 15:14	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 15:14		
Sulfate	7.7	mg/L	1.0	0.50	1		02/19/22 15:14		



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Sample: YGWA-5D	Lab ID:	92587091024	Collecte	d: 02/10/22	2 17:46	Received: 02/	11/22 16:45 M	latrix: Water	
_			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	CUSTOME R				1		02/14/22 11:37		
pΗ	6.99	Std. Units			1		02/14/22 11:37		
6010D ATL ICP	Analytical	Method: EPA	6010D Prep	aration Me	hod: EF	PA 3010A			
	Pace Ana	lytical Services	- Peachtree	Corners, C	€A				
Calcium	24.8	mg/L	1.0	0.12	1	02/23/22 14:15	02/24/22 00:27	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA	6020B Prep	aration Met	hod: EF	PA 3005A			
	•	lytical Services							
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 19:20	7440-36-0	
Arsenic	0.0040J	mg/L	0.0050	0.0011	1	02/23/22 14:12			В
Barium	0.0084	mg/L	0.0050	0.00067	1	02/23/22 14:12			
Beryllium	ND	mg/L		0.000054	1	02/23/22 14:12			
Boron	0.011J	mg/L	0.040	0.0086	1	02/23/22 14:12			
Cadmium	ND	mg/L	0.0050	0.00011	1	02/23/22 14:12			
Chromium	ND ND	mg/L	0.0050	0.00011	1	02/23/22 14:12			
Cobalt	ND ND	mg/L	0.0050	0.00011	1	02/23/22 14:12			
	ND ND	•		0.00039		02/23/22 14:12			
_ead		mg/L	0.0010		1				
_ithium	0.0076J	mg/L	0.030	0.00073	1	02/23/22 14:12			
Molybdenum	0.00096J	mg/L	0.010	0.00074	1	02/23/22 14:12			
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12			
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 19:20	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Prep	aration Met	hod: EF	A 7470A			
	Pace Ana	lytical Services	- Peachtree	Corners, C	SA.				
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:45	02/22/22 11:03	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Ana	lytical Services	- Peachtree	Corners, C	βA				
Total Dissolved Solids	127	mg/L	10.0	10.0	1		02/17/22 16:07	•	
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	.1 1993					
·	Pace Ana	lytical Services	s - Asheville						
Chloride	3.2	mg/L	1.0	0.60	1		02/19/22 15:54	16887-00-6	
Fluoride	0.055J	mg/L	0.10	0.050	1		02/19/22 15:54	16984-48-8	
Sulfate	4.9	mg/L	1.0	0.50	1		02/19/22 15:54		



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Sample: UP-EB-2	Lab ID:	9258709102	5 Collecte	ed: 02/10/2	2 11:40	Received: 02/	/11/22 16:45 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
						•			
6010D ATL ICP		Method: EPA				PA 3010A			
	Pace Anal	ytical Service	s - Peachtre	e Corners, (	GA				
Calcium	ND	mg/L	1.0	0.12	1	02/23/22 14:15	02/24/22 00:37	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Me	thod: El	PA 3005A			
	Pace Anal	ytical Service	s - Peachtre	e Corners, 0	GA				
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 19:32	7440-36-0	
Arsenic	0.0028J	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 19:32	7440-38-2	В
Barium	ND	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 19:32	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 19:32	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 19:32	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 19:32	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 19:32	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 19:32	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 19:32	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 19:32	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 19:32	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 19:32	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 19:32	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Prej	paration Met	thod: EF	PA 7470A			
	Pace Anal	ytical Service	s - Peachtre	e Corners, 0	GΑ				
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:45	02/22/22 11:06	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	2540C-2015						
	Pace Anal	ytical Service	s - Peachtre	e Corners, 0	GΑ				
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/17/22 16:07		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Anal	ytical Service	s - Asheville						
Chloride	ND	mg/L	1.0	0.60	1		02/19/22 16:08	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 16:08	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/19/22 16:08	14808-79-8	



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Sample: UP-FB-2	Lab ID:	92587091026		ed: 02/10/22	2 17:13	Received: 02/	11/22 16:45 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
6010D ATL ICP	- — — — — Analytical	Method: EPA	6010D Pre	paration Me	hod: FF			-	-
		ytical Service							
Calcium	ND	mg/L	1.0	0.12	1	02/23/22 14:15	02/24/22 00:42	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Met	hod: EF	PA 3005A			
	•	ytical Service							
Antimony	ND	mg/L	0.0030	0.00078	1	02/23/22 14:12	02/24/22 19:38	7440-36-0	
Arsenic	0.0026J	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 19:38	7440-38-2	В
Barium	ND	mg/L	0.0050	0.00067	1	02/23/22 14:12	02/24/22 19:38	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/23/22 14:12	02/24/22 19:38	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/23/22 14:12	02/24/22 19:38	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/23/22 14:12	02/24/22 19:38	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/23/22 14:12	02/24/22 19:38	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/23/22 14:12	02/24/22 19:38	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/23/22 14:12	02/24/22 19:38	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/23/22 14:12	02/24/22 19:38	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/23/22 14:12	02/24/22 19:38	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/23/22 14:12	02/24/22 19:38	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/23/22 14:12	02/24/22 19:38	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Prej	paration Met	hod: EF	PA 7470A			
·	-	ytical Service							
Mercury	ND	mg/L	0.00020	0.00013	1	02/21/22 14:45	02/22/22 11:08	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	2540C-2015						
	Pace Anal	ytical Service	s - Peachtre	e Corners, 0	ЭΑ				
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/17/22 16:07		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Anal	ytical Service	s - Asheville						
Chloride	ND	mg/L	1.0	0.60	1		02/19/22 16:21	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/19/22 16:21	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/19/22 16:21	14808-79-8	



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

QC Batch: 680120 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92587091001, 92587091002, 92587091003, 92587091004, 92587091005, 92587091006, 92587091007,

92587091008

METHOD BLANK: 3558408 Matrix: Water

Associated Lab Samples: 92587091001, 92587091002, 92587091003, 92587091004, 92587091005, 92587091006, 92587091007,

92587091008

ParameterUnitsBlank Reporting ResultReporting LimitMDLAnalyzedQualifiersCalciummg/LND1.00.1202/23/22 19:59

LABORATORY CONTROL SAMPLE: 3558409

Spike LCS LCS % Rec Units Result % Rec Limits Qualifiers Parameter Conc. Calcium 98 mg/L 0.98J 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3558410 3558411

MS MSD 92587089004 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD RPD Qual Calcium 9.3 10.5 20 1 10.5 117 119 75-125 0 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: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

LABORATORY CONTROL SAMPLE:

Calcium

Calcium

Date: 02/25/2022 02:44 PM

QC Batch: 680226 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL

Laboratory: Pace Analytical Services - Peachtree Corners, GA

100

29.9

80-120

75-125

-45

20 M1

-12

Associated Lab Samples: 92587091009, 92587091010, 92587091011, 92587091012, 92587091013, 92587091014, 92587091015,

92587091016, 92587091017, 92587091018, 92587091019, 92587091020, 92587091021, 92587091022,

92587091023, 92587091024, 92587091025, 92587091026

METHOD BLANK: 3558817 Matrix: Water

3558818

mg/L

mg/L

Associated Lab Samples: 92587091009, 92587091010, 92587091011, 92587091012, 92587091013, 92587091014, 92587091015,

92587091016, 92587091017, 92587091018, 92587091019, 92587091020, 92587091021, 92587091022,

1.0J

30.2

92587091023, 92587091024, 92587091025, 92587091026

ParameterUnitsBlank ResultReporting LimitMDLAnalyzedQualifiersCalciummg/LND1.00.1202/23/22 22:33

Spike LCS LCS % Rec

Parameter Units Conc. Result % Rec Limits Qualifiers

30.3

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3558819 3558820 MSD MS 92587091010 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits 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: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

QC Batch: 680115 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92587091001, 92587091002, 92587091003, 92587091004, 92587091005, 92587091006, 92587091007,

92587091008

METHOD BLANK: 3558393 Matrix: Water

Associated Lab Samples: 92587091001, 92587091002, 92587091003, 92587091004, 92587091005, 92587091006, 92587091007,

92587091008

		Blank	Reporting			
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/23/22 18:18	
Arsenic	mg/L	ND	0.0050	0.0011	02/23/22 18:18	
Barium	mg/L	ND	0.0050	0.00067	02/23/22 18:18	
Beryllium	mg/L	ND	0.00050	0.000054	02/23/22 18:18	
Boron	mg/L	ND	0.040	0.0086	02/23/22 18:18	
Cadmium	mg/L	ND	0.00050	0.00011	02/23/22 18:18	
Chromium	mg/L	ND	0.0050	0.0011	02/23/22 18:18	
Cobalt	mg/L	ND	0.0050	0.00039	02/23/22 18:18	
Copper	mg/L	ND	0.0050	0.00050	02/23/22 18:18	
Lead	mg/L	ND	0.0010	0.00089	02/23/22 18:18	
Lithium	mg/L	ND	0.030	0.00073	02/23/22 18:18	
Molybdenum	mg/L	ND	0.010	0.00074	02/23/22 18:18	
Nickel	mg/L	ND	0.0050	0.00071	02/23/22 18:18	
Selenium	mg/L	ND	0.0050	0.0014	02/23/22 18:18	
Silver	mg/L	ND	0.0050	0.00044	02/23/22 18:18	
Thallium	mg/L	ND	0.0010	0.00018	02/23/22 18:18	
Vanadium	mg/L	ND	0.010	0.0019	02/23/22 18:18	
Zinc	mg/L	ND	0.010	0.0070	02/23/22 18:18	

LABORATORY CONTROL SAMPLE:	3558394					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Antimony	mg/L	0.1	0.11	107	80-120	
Arsenic	mg/L	0.1	0.11	106	80-120	
Barium	mg/L	0.1	0.10	104	80-120	
Beryllium	mg/L	0.1	0.11	106	80-120	
Boron	mg/L	1	1.1	111	80-120	
Cadmium	mg/L	0.1	0.10	102	80-120	
Chromium	mg/L	0.1	0.10	104	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Copper	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.11	106	80-120	
Molybdenum	mg/L	0.1	0.11	107	80-120	
Nickel	mg/L	0.1	0.10	103	80-120	
Selenium	mg/L	0.1	0.11	105	80-120	
Silver	mg/L	0.1	0.10	104	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: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

LABORATORY CONTROL SAMPLE: 3558394

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Thallium	mg/L	0.1	0.10	101	80-120	
Vanadium	mg/L	0.1	0.11	107	80-120	
Zinc	mg/L	0.1	0.10	102	80-120	

MATRIX SPIKE & MATRIX	SPIKE DUPLIC	ATE: 3558	395		3558396							
Parameter	9 Units	2587089002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.11	105	108	75-125	3	20	
Arsenic	mg/L	0.0021J	0.1	0.1	0.10	0.11	103	105	75-125	2	20	
Barium	mg/L	0.083	0.1	0.1	0.18	0.18	92	100	75-125	4	20	
Beryllium	mg/L	ND	0.1	0.1	0.11	0.10	105	102	75-125	3	20	
Boron	mg/L	2.4	1	1	3.4	3.6	100	115	75-125	4	20	
Cadmium	mg/L	0.00033J	0.1	0.1	0.10	0.10	101	102	75-125	2	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.11	104	105	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	1	20	
Copper	mg/L	0.0016J	0.1	0.1	0.10	0.10	99	98	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.096	0.097	96	97	75-125	1	20	
Lithium	mg/L	0.0076J	0.1	0.1	0.11	0.11	103	103	75-125	0	20	
Molybdenum	mg/L	0.0011J	0.1	0.1	0.11	0.11	107	109	75-125	2	20	
Nickel	mg/L	0.0024J	0.1	0.1	0.11	0.11	104	104	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.099	100	99	75-125	2	20	
Silver	mg/L	ND	0.1	0.1	0.10	0.10	102	103	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.098	0.097	97	97	75-125	1	20	
Vanadium	mg/L	ND	0.1	0.1	0.11	0.11	109	108	75-125	1	20	
Zinc	mg/L	ND	0.1	0.1	0.10	0.10	100	100	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: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

QC Batch: 680225 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

 $Associated \ Lab \ Samples: \qquad 92587091009, \ 92587091010, \ 92587091011, \ 92587091012, \ 92587091013, \ 92587091014, \ 92587091015, \ 92587091014, \ 92587091016, \ 9258$ 

92587091016, 92587091017, 92587091018, 92587091019, 92587091020, 92587091021, 92587091022,

92587091023, 92587091024, 92587091025, 92587091026

METHOD BLANK: 3558813 Matrix: Water

Associated Lab Samples: 92587091009, 92587091010, 92587091011, 92587091012, 92587091013, 92587091014, 92587091015,

92587091016, 92587091017, 92587091018, 92587091019, 92587091020, 92587091021, 92587091022,

92587091023, 92587091024, 92587091025, 92587091026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/24/22 16:57	
Arsenic	mg/L	0.0015J	0.0050	0.0011	02/24/22 16:57	
Barium	mg/L	ND	0.0050	0.00067	02/24/22 16:57	
Beryllium	mg/L	ND	0.00050	0.000054	02/24/22 16:57	
Boron	mg/L	ND	0.040	0.0086	02/24/22 16:57	
Cadmium	mg/L	ND	0.00050	0.00011	02/24/22 16:57	
Chromium	mg/L	0.0019J	0.0050	0.0011	02/24/22 16:57	
Cobalt	mg/L	ND	0.0050	0.00039	02/24/22 16:57	
Lead	mg/L	ND	0.0010	0.00089	02/24/22 16:57	
Lithium	mg/L	ND	0.030	0.00073	02/24/22 16:57	
Molybdenum	mg/L	ND	0.010	0.00074	02/24/22 16:57	
Selenium	mg/L	ND	0.0050	0.0014	02/24/22 16:57	
Thallium	mg/L	ND	0.0010	0.00018	02/24/22 16:57	

LABORATORY CONTROL SAMPLE:	3558814					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Antimony	mg/L	0.1	0.11	105	80-120	
Arsenic	mg/L	0.1	0.10	102	80-120	
Barium	mg/L	0.1	0.10	100	80-120	
Beryllium	mg/L	0.1	0.10	102	80-120	
Boron	mg/L	1	1.0	102	80-120	
Cadmium	mg/L	0.1	0.099	99	80-120	
Chromium	mg/L	0.1	0.11	106	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.11	110	80-120	
Molybdenum	mg/L	0.1	0.10	105	80-120	
Selenium	mg/L	0.1	0.10	100	80-120	
Thallium	mg/L	0.1	0.099	99	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: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

MATRIX SPIKE & MATRIX	SPIKE DUPLI	CATE: 3558	815 MS	MSD	3558816							
	!	92587091009	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	110	75-125	3	20	
Arsenic	mg/L	0.0018J	0.1	0.1	0.10	0.11	102	104	75-125	2	20	
Barium	mg/L	0.0031J	0.1	0.1	0.11	0.11	102	106	75-125	4	20	
Beryllium	mg/L	ND	0.1	0.1	0.11	0.10	106	105	75-125	1	20	
Boron	mg/L	ND	1	1	1.1	1.1	109	106	75-125	3	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	100	103	75-125	2	20	
Chromium	mg/L	ND	0.1	0.1	0.11	0.11	109	109	75-125	0	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	103	103	75-125	0	20	
Lead	mg/L	ND	0.1	0.1	0.097	0.099	97	99	75-125	2	20	
Lithium	mg/L	0.021J	0.1	0.1	0.13	0.13	114	113	75-125	1	20	
Molybdenum	mg/L	0.0087J	0.1	0.1	0.12	0.12	107	110	75-125	2	20	
Selenium	mg/L	ND	0.1	0.1	0.099	0.10	98	103	75-125	5	20	
Thallium	mg/L	ND	0.1	0.1	0.098	0.10	98	101	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: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

QC Batch: 678406 Analysis Method: EPA 7470A

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

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92587091001, 92587091002, 92587091003, 92587091004, 92587091005, 92587091006, 92587091007,

92587091008

METHOD BLANK: 3550211 Matrix: Water

Associated Lab Samples: 92587091001, 92587091002, 92587091003, 92587091004, 92587091005, 92587091006, 92587091007,

92587091008

 Parameter
 Units
 Blank Reporting Result
 Reporting Limit
 MDL
 Analyzed
 Qualifiers

 Mercury
 mg/L
 ND
 0.00020
 0.00013
 02/16/22 14:36

MSD

LABORATORY CONTROL SAMPLE: 3550212

Date: 02/25/2022 02:44 PM

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers 86 Mercury mg/L 0.0025 0.0021 80-120

MS

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3550213 3550214

92587089001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD RPD Qual ND 0.0025 0.0025 0.0019 77 74 75-125 20 M1 Mercury 0.0018 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.



YATES POOLED UPGRADIENT Project:

Pace Project No.: 92587091

Mercury

Date: 02/25/2022 02:44 PM

QC Batch: 678756 Analysis Method: EPA 7470A QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury

> Laboratory: Pace Analytical Services - Peachtree Corners, GA

92587091009, 92587091010, 92587091011, 92587091012, 92587091013, 92587091014, 92587091015, Associated Lab Samples:

92587091016, 92587091017, 92587091018, 92587091019

METHOD BLANK: 3551942 Matrix: Water

92587091009, 92587091010, 92587091011, 92587091012, 92587091013, 92587091014, 92587091015, Associated Lab Samples: Blank

92587091016, 92587091017, 92587091018, 92587091019

Parameter Units Limit MDL Qualifiers Result Analyzed mg/L ND 0.00020 0.00013 02/18/22 13:04

Reporting

LABORATORY CONTROL SAMPLE: 3551943

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: 3551944 3551945

MSD MS

92588161001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD RPD Qual ND 0.0025 0.0022 20 Mercury 0.0025 0.0022 88 87 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: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

QC Batch: 679675 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92587091020, 92587091021, 92587091022, 92587091023, 92587091024, 92587091025, 92587091026

METHOD BLANK: 3556124 Matrix: Water

Associated Lab Samples: 92587091020, 92587091021, 92587091022, 92587091023, 92587091024, 92587091025, 92587091026

Blank Reporting
Parameter Units Result Limit MDL Analyzed Qualifiers

Mercury mg/L ND 0.00020 0.00013 02/22/22 10:33

LABORATORY CONTROL SAMPLE: 3556125

Spike LCS LCS % Rec Result Limits Qualifiers Parameter Units Conc. % Rec Mercury 0.0025 0.0027 108 80-120 mg/L

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3556126 3556127

MSD MS 92587091020 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 0.0024 0.0026 96 101 75-125 5 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: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

QC Batch: 678110 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: 92587091001, 92587091002

METHOD BLANK: 3548928 Matrix: Water

Associated Lab Samples: 92587091001, 92587091002

Parameter Units Result Limit MDL Analyzed Qualifiers

Total Dissolved Solids mg/L ND 10.0 02/14/22 15:13

LABORATORY CONTROL SAMPLE: 3548929

Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units **Total Dissolved Solids** mg/L 379 95 80-120

SAMPLE DUPLICATE: 3548930

Parameter Units Parameter Units Parameter Units Parameter Units Parameter Units Parameter Parameter Units Parameter Result Result RPD RPD Qualifiers Parameter RPD 299 297 1 25

SAMPLE DUPLICATE: 3548931

Date: 02/25/2022 02:44 PM

Parameter Units Parameter Units Parameter Units Parameter Units Parameter Units Parameter Parameter Units Parameter Result Result RPD RPD Qualifiers ND ND S25

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: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

QC Batch: 678369 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: 92587091003, 92587091004, 92587091005

METHOD BLANK: 3550014 Matrix: Water

Associated Lab Samples: 92587091003, 92587091004, 92587091005

Blank Reporting
Parameter Units Result Limit MDL Analyzed Qualifiers

Total Dissolved Solids mg/L ND 10.0 10.0 02/15/22 16:02

LABORATORY CONTROL SAMPLE: 3550015

Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units **Total Dissolved Solids** 389 97 80-120 mg/L

SAMPLE DUPLICATE: 3550016

 Parameter
 Units
 92587091003 Result
 Dup Result
 Max RPD
 RPD
 Qualifiers

 Total Dissolved Solids
 mg/L
 151
 152
 1
 25

SAMPLE DUPLICATE: 3550017

Date: 02/25/2022 02:44 PM

92587322007 Dup Max RPD RPD Parameter Units Result Result Qualifiers Total Dissolved Solids 1160 7 mg/L 1080 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: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Parameter

**Total Dissolved Solids** 

Date: 02/25/2022 02:44 PM

QC Batch: 678370 Analysis Method: SM 2540C-2015

Units

mg/L

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

Laboratory: Pace Analytical Services - Peachtree Corners, GA

% Rec

37.0

Limits

3

Qualifiers

25

Associated Lab Samples: 92587091006, 92587091007, 92587091008, 92587091009, 92587091010, 92587091011, 92587091012,

92587091013, 92587091014, 92587091015, 92587091016, 92587091017

METHOD BLANK: 3550019 Matrix: Water

Associated Lab Samples: 92587091006, 92587091007, 92587091008, 92587091009, 92587091010, 92587091011, 92587091012,

92587091013, 92587091014, 92587091015, 92587091016, 92587091017

Conc.

Blank Reporting Units Limit MDL Qualifiers Parameter Result Analyzed mg/L **Total Dissolved Solids** ND 10.0 10.0 02/15/22 16:29 LABORATORY CONTROL SAMPLE: 3550020 LCS LCS % Rec Spike

Result

Total Dissolved Solids mg/L 400 394 98 80-120 SAMPLE DUPLICATE: 3550021 92587705001 Dup Max **RPD RPD** Parameter Units Result Result Qualifiers

36.0

SAMPLE DUPLICATE: 3550022 92587091011 Dup Max RPD RPD Parameter Units Result Result Qualifiers **Total Dissolved Solids** mg/L ND ND 25

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



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

QC Batch: 679091 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: 92587091018, 92587091019, 92587091020, 92587091021, 92587091024, 92587091025, 92587091026

METHOD BLANK: 3553375 Matrix: Water

Associated Lab Samples: 92587091018, 92587091019, 92587091020, 92587091021, 92587091024, 92587091025, 92587091026

Blank Reporting

ParameterUnitsResultLimitMDLAnalyzedQualifiersTotal Dissolved Solidsmg/LND10.010.002/17/22 16:05

LABORATORY CONTROL SAMPLE: 3553376

Spike LCS LCS % Rec Conc. % Rec Limits Qualifiers Parameter Units Result **Total Dissolved Solids** 374 94 80-120 mg/L

SAMPLE DUPLICATE: 3553377

92587319023 Dup Max Parameter Units Result Result **RPD RPD** Qualifiers 299 **Total Dissolved Solids** 0 mg/L 300 25

SAMPLE DUPLICATE: 3553378

Date: 02/25/2022 02:44 PM

92587089012 Dup Max RPD RPD Parameter Units Result Result Qualifiers Total Dissolved Solids 190 2 mg/L 186 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: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

QC Batch: 679094 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: 92587091022, 92587091023

METHOD BLANK: 3553381 Matrix: Water

Associated Lab Samples: 92587091022, 92587091023

Blank Reporting
Parameter Units Result Limit MDL Analyzed Qualifiers

Total Dissolved Solids mg/L ND 10.0 10.0 02/17/22 17:00

LABORATORY CONTROL SAMPLE: 3553382

Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units **Total Dissolved Solids** mg/L 365 91 80-120

SAMPLE DUPLICATE: 3553383

92587090008 Dup Max Parameter Units Result Result **RPD RPD** Qualifiers 772 **Total Dissolved Solids** mg/L 800 4 25

SAMPLE DUPLICATE: 3553384

Date: 02/25/2022 02:44 PM

92587090019 Dup Max RPD RPD Parameter Units Result Result Qualifiers Total Dissolved Solids 48.0 mg/L 58.0 19 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: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

QC Batch Method:

678235

QC Batch:

Analysis Method:

EPA 300.0 Rev 2.1 1993

Analysis Description:

300.0 IC Anions

Laboratory:

Pace Analytical Services - Asheville

92587091001, 92587091002 Associated Lab Samples:

EPA 300.0 Rev 2.1 1993

METHOD BLANK:

Date: 02/25/2022 02:44 PM

Matrix: Water

Associated Lab Samples: 92587091001, 92587091002

		Blank	Reporting			
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/15/22 01:58	
Fluoride	mg/L	ND	0.10	0.050	02/15/22 01:58	
Sulfate	mg/L	ND	1.0	0.50	02/15/22 01:58	

LABORATORY CONTROL SAMPLE: 3549594 Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Chloride 50 104 mg/L 51.8 90-110 Fluoride 2.5 101 mg/L 2.5 90-110 Sulfate 51.0 mg/L 50 102 90-110

MATRIX SPIKE & MATRIX SP	595		3549596									
		0050500010	MS	MSD		1400		1405	o/ <b>D</b>			
		92585602018	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	10.2	50	50	64.0	63.6	108	107	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.7	2.7	106	105	90-110	1	10	
Sulfate	mg/L	20.0	50	50	73.7	73.7	107	107	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3549597					3549598							
			MS	MSD								
		92587089005	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	52.3	53.6	105	107	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	104	107	90-110	3	10	
Sulfate	mg/L	ND	50	50	52.2	53.5	104	107	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: YATES POOLED UPGRADIENT

LABORATORY CONTROL SAMPLE: 2540600

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

QC Batch Method:

QC Batch: 678236

236 Analysis Method:

EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Asheville

EPA 300.0 Rev 2.1 1993

Associated Lab Samples: 92587091003, 92587091004, 92587091005

METHOD BLANK: 3549599 Matrix: Water

Associated Lab Samples: 92587091003, 92587091004, 92587091005

		Blank	Reporting			
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/15/22 09:24	
Fluoride	mg/L	ND	0.10	0.050	02/15/22 09:24	
Sulfate	mg/L	ND	1.0	0.50	02/15/22 09:24	

LABORATORY CONTROL SAMPLE.	3549600					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Chloride	mg/L	50	51.3	103	90-110	
Fluoride	mg/L	2.5	2.5	98	90-110	
Sulfate	mg/L	50	50.8	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3549601					3549602							
		00507004000	MS	MSD		1400		1405	0/ <b>D</b>			
		92587091003	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	3.2	50	50	56.7	57.6	107	109	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.8	2.8	110	112	90-110	2	10	M1
Sulfate	mg/L	50.9	50	50	87.2	88.3	73	75	90-110	1	10	M1

MATRIX SPIKE & MATRIX SF		3549604										
			MS	MSD								
		92587240001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	9.5	50	50	2.9	2.9	-13	-13	90-110	1	10	M1
Fluoride	mg/L	0.29	2.5	2.5	0.11	0.11	-7	-7	90-110	2	10	M1
Sulfate	mg/L	1.5	50	50	2.4	2.3	2	2	90-110	2	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: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

QC Batch: 678537 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: 92587091006, 92587091007, 92587091008, 92587091009, 92587091010, 92587091011, 92587091012,

92587091013, 92587091014, 92587091015, 92587091016

METHOD BLANK: 3551059 Matrix: Water

Associated Lab Samples: 92587091006, 92587091007, 92587091008, 92587091009, 92587091010, 92587091011, 92587091012,

92587091013, 92587091014, 92587091015, 92587091016

		Blank	Reporting			
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/16/22 09:35	
Fluoride	mg/L	ND	0.10	0.050	02/16/22 09:35	
Sulfate	mg/L	ND	1.0	0.50	02/16/22 09:35	

LABORATORY CONTROL SAMPLE:	3551060					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Chloride	mg/L	50	50.8	102	90-110	
Fluoride	mg/L	2.5	2.4	95	90-110	
Sulfate	mg/L	50	50.3	101	90-110	

MATRIX SPIKE & MATRIX SP	PIKE DUPLI	CATE: 3551	061		3551062							
Parameter	( Units	92585949014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND ND	50	50	62.2	59.5	124	119	90-110	4	10	M1
Fluoride	mg/L	ND	2.5	2.5	3.0	2.9	120	114	90-110	5	10	M1
Sulfate	mg/L	ND	50	50	62.0	59.6	124	119	90-110	4	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3551063					3551064							
Parameter	Units	92587091007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.0	50	50	63.8	61.5	126	121	90-110	4	10	M1
Fluoride	mg/L	0.057J	2.5	2.5	3.1	3.0	123	119	90-110	3	10	M1
Sulfate	mg/L	9.3	50	50	71.8	69.6	125	121	90-110	3	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.



### **QUALITY CONTROL DATA**

Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

QC Batch: 678877

QC Batch Method: EPA 300.0 Rev 2.1 1993

Analysis Method: EPA 300.0 Rev 2.1 1993

Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92587091017

METHOD BLANK: 3552679

Date: 02/25/2022 02:44 PM

Matrix: Water

Associated Lab Samples: 92587091017

		Blank	Reporting			
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND ND	1.0	0.60	02/17/22 01:57	
Fluoride	mg/L	ND	0.10	0.050	02/17/22 01:57	
Sulfate	mg/L	ND	1.0	0.50	02/17/22 01:57	

LABORATORY CONTROL SAMPLE:	3552680					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Chloride	mg/L	50	48.3	97	90-110	
Fluoride	mg/L	2.5	2.3	91	90-110	
Sulfate	mg/L	50	47.1	94	90-110	

MATRIX SPIKE & MATRIX SP	IKE DUPL	ICATE: 3552	681		3552682							
		00507004047	MS	MSD		1405		1405	0/ <b>D</b>			
		92587091017	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	1.7	50	50	50.7	51.6	98	100	90-110	2	10	
Fluoride	mg/L	0.10	2.5	2.5	2.5	2.6	97	99	90-110	2	10	
Sulfate	mg/L	3.9	50	50	52.8	53.7	98	100	90-110	2	10	

MATRIX SPIKE & MATRIX SF	PIKE DUPL	ICATE: 3552	683		3552684							
			MS	MSD								
		92587687006	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	51.0	51.1	102	102	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	101	99	90-110	1	10	
Sulfate	mg/L	ND	50	50	50.8	50.8	101	101	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.



### **QUALITY CONTROL DATA**

Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

QC Batch: 679365 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: 92587091018, 92587091019, 92587091020, 92587091021, 92587091022, 92587091023, 92587091024,

92587091025, 92587091026

METHOD BLANK: 3554816 Matrix: Water

Associated Lab Samples: 92587091018, 92587091019, 92587091020, 92587091021, 92587091022, 92587091023, 92587091024,

92587091025, 92587091026

		Blank	Reporting			
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/19/22 13:13	
Fluoride	mg/L	ND	0.10	0.050	02/19/22 13:13	
Sulfate	mg/L	ND	1.0	0.50	02/19/22 13:13	

LABORATORY CONTROL SAMPLE:	3554817	Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Chloride	mg/L	50	51.6	103	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	50	51.5	103	90-110	

MATRIX SPIKE & MATRIX SP	IKE DUPL	ICATE: 3554	818		3554819							
			MS	MSD								
		92587091018	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	4.4	50	50	54.8	55.6	101	102	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	104	106	90-110	2	10	
Sulfate	mg/L	2.4	50	50	52.5	53.6	100	102	90-110	2	10	

MATRIX SPIKE & MATRIX SP	IKE DUPL	ICATE: 3554	820		3554821							
			MS	MSD								
		92587090007	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	4.2	50	50	55.9	56.1	103	104	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	3.0	3.1	121	123	90-110	1	10	M1
Sulfate	mg/L	452	50	50	488	491	73	78	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.



### **QUALIFIERS**

Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

### **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: 02/25/2022 02:44 PM

B Analyte was detected in the associated method blank.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

_ab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch
2587091001	YGWA-39			_	
2587091002	YGWA-40				
2587091003	YGWA-47				
2587091004	GWA-2				
2587091006	YGWA-1I				
2587091007	YGWA-1D				
2587091008	YGWA-2I				
2587091009	YGWA-3I				
2587091010	YGWA-3D				
2587091013	YGWA-17S				
2587091014	YGWA-18S				
2587091015	YGWA-18I				
2587091016	YGWA-20S				
2587091017	YGWA-21I				
2587091018	YGWA-5I				
2587091020	YGWA-14S				
2587091022	YGWA-30I				
2587091023	YGWA-4I				
2587091024	YGWA-5D				
2587091001	YGWA-39	EPA 3010A	680120	EPA 6010D	680402
2587091002	YGWA-40	EPA 3010A	680120	EPA 6010D	680402
2587091003	YGWA-47	EPA 3010A	680120	EPA 6010D	680402
2587091004	GWA-2	EPA 3010A	680120	EPA 6010D	680402
2587091005	UP-DUP-1	EPA 3010A	680120	EPA 6010D	680402
2587091006	YGWA-1I	EPA 3010A	680120	EPA 6010D	680402
2587091007	YGWA-1D	EPA 3010A	680120	EPA 6010D	680402
2587091008	YGWA-2I	EPA 3010A	680120	EPA 6010D	680402
2587091009	YGWA-3I	EPA 3010A	680226	EPA 6010D	680419
2587091010	YGWA-3D	EPA 3010A	680226	EPA 6010D	680419
2587091011	UP-EB-1	EPA 3010A	680226	EPA 6010D	680419
2587091012	UP-FB-1	EPA 3010A	680226	EPA 6010D	680419
2587091013	YGWA-17S	EPA 3010A	680226	EPA 6010D	680419
2587091014	YGWA-18S	EPA 3010A	680226	EPA 6010D	680419
2587091015	YGWA-18I	EPA 3010A	680226	EPA 6010D	680419
2587091016	YGWA-20S	EPA 3010A	680226	EPA 6010D	680419
2587091017	YGWA-21I	EPA 3010A	680226	EPA 6010D	680419
2587091018	YGWA-5I	EPA 3010A	680226	EPA 6010D	680419
2587091019	UP-DUP-3	EPA 3010A	680226	EPA 6010D	680419
2587091020	YGWA-14S	EPA 3010A	680226	EPA 6010D	680419
2587091021	UP-DUP-2	EPA 3010A	680226	EPA 6010D	680419
2587091022	YGWA-30I	EPA 3010A	680226	EPA 6010D	680419
2587091023	YGWA-4I	EPA 3010A	680226	EPA 6010D	680419
2587091024	YGWA-5D	EPA 3010A	680226	EPA 6010D	680419
587091025	UP-EB-2	EPA 3010A	680226	EPA 6010D	680419
2587091026	UP-FB-2	EPA 3010A	680226	EPA 6010D	680419
2587091001	YGWA-39	EPA 3005A	680115	EPA 6020B	680441
2587091002	YGWA-40	EPA 3005A	680115	EPA 6020B	680441



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch
92587091003	YGWA-47	EPA 3005A	680115	EPA 6020B	680441
92587091004	GWA-2	EPA 3005A	680115	EPA 6020B	680441
2587091005	UP-DUP-1	EPA 3005A	680115	EPA 6020B	680441
2587091006	YGWA-1I	EPA 3005A	680115	EPA 6020B	680441
2587091007	YGWA-1D	EPA 3005A	680115	EPA 6020B	680441
2587091008	YGWA-2I	EPA 3005A	680115	EPA 6020B	680441
2587091009	YGWA-3I	EPA 3005A	680225	EPA 6020B	680450
2587091010	YGWA-3D	EPA 3005A	680225	EPA 6020B	680450
2587091011	UP-EB-1	EPA 3005A	680225	EPA 6020B	680450
2587091012	UP-FB-1	EPA 3005A	680225	EPA 6020B	680450
2587091013	YGWA-17S	EPA 3005A	680225	EPA 6020B	680450
2587091014	YGWA-18S	EPA 3005A	680225	EPA 6020B	680450
2587091015	YGWA-18I	EPA 3005A	680225	EPA 6020B	680450
2587091016	YGWA-20S	EPA 3005A	680225	EPA 6020B	680450
2587091017	YGWA-21I	EPA 3005A	680225	EPA 6020B	680450
2587091018	YGWA-5I	EPA 3005A	680225	EPA 6020B	680450
2587091019	UP-DUP-3	EPA 3005A	680225	EPA 6020B	680450
2587091020	YGWA-14S	EPA 3005A	680225	EPA 6020B	680450
2587091021	UP-DUP-2	EPA 3005A	680225	EPA 6020B	680450
2587091022	YGWA-30I	EPA 3005A	680225	EPA 6020B	680450
2587091023	YGWA-4I	EPA 3005A	680225	EPA 6020B	680450
2587091024	YGWA-5D	EPA 3005A	680225	EPA 6020B	680450
2587091025	UP-EB-2	EPA 3005A	680225	EPA 6020B	680450
2587091026	UP-FB-2	EPA 3005A	680225	EPA 6020B	680450
2587091001	YGWA-39	EPA 7470A	678406	EPA 7470A	678665
2587091002	YGWA-40	EPA 7470A	678406	EPA 7470A	678665
2587091003	YGWA-47	EPA 7470A	678406	EPA 7470A	678665
2587091004	GWA-2	EPA 7470A	678406	EPA 7470A	678665
258709100 <del>4</del> 2587091005	UP-DUP-1	EPA 7470A	678406	EPA 7470A	678665
2587091006	YGWA-1I	EPA 7470A	678406	EPA 7470A	678665
2587091007	YGWA-1D	EPA 7470A	678406	EPA 7470A	678665
2587091008	YGWA-2I	EPA 7470A	678406	EPA 7470A	678665
2587091009	YGWA-3I	EPA 7470A	678756	EPA 7470A	679374
2587091010	YGWA-3D	EPA 7470A	678756	EPA 7470A	679374
2587091011	UP-EB-1	EPA 7470A	678756	EPA 7470A	679374
2587091011 2587091012	UP-FB-1	EPA 7470A	678756	EPA 7470A	679374
2587091012 2587091013	YGWA-17S	EPA 7470A	678756	EPA 7470A	679374
2587091013 2587091014	YGWA-18S	EPA 7470A	678756	EPA 7470A EPA 7470A	679374
2587091014 2587091015	YGWA-18I	EPA 7470A EPA 7470A	678756	EPA 7470A EPA 7470A	679374
2587091015 2587091016	YGWA-20S	EPA 7470A EPA 7470A		EPA 7470A EPA 7470A	679374
2587091016 2587091017	YGWA-205 YGWA-21I	EPA 7470A EPA 7470A	678756 678756		679374
	YGWA-211			EPA 7470A	
2587091018 2587091019	VGWA-51 UP-DUP-3	EPA 7470A EPA 7470A	678756 678756	EPA 7470A EPA 7470A	679374 679374
2587091020	YGWA-14S	EPA 7470A	679675	EPA 7470A	679921
2587091021	UP-DUP-2	EPA 7470A	679675	EPA 7470A	679921
2587091022	YGWA-30I	EPA 7470A	679675	EPA 7470A	679921
2587091023	YGWA-4I	EPA 7470A	679675	EPA 7470A	679921



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch
92587091024	YGWA-5D	EPA 7470A	679675	EPA 7470A	679921
92587091025	UP-EB-2	EPA 7470A	679675	EPA 7470A	679921
2587091026	UP-FB-2	EPA 7470A	679675	EPA 7470A	679921
92587091001	YGWA-39	SM 2540C-2015	678110		
92587091002	YGWA-40	SM 2540C-2015	678110		
92587091003	YGWA-47	SM 2540C-2015	678369		
92587091004	GWA-2	SM 2540C-2015	678369		
2587091005	UP-DUP-1	SM 2540C-2015	678369		
2587091006	YGWA-1I	SM 2540C-2015	678370		
2587091007	YGWA-1D	SM 2540C-2015	678370		
2587091008	YGWA-2I	SM 2540C-2015	678370		
2587091009	YGWA-3I	SM 2540C-2015	678370		
2587091010	YGWA-3D	SM 2540C-2015	678370		
2587091011	UP-EB-1	SM 2540C-2015	678370		
2587091012	UP-FB-1	SM 2540C-2015	678370		
2587091013	YGWA-17S	SM 2540C-2015	678370		
2587091014	YGWA-18S	SM 2540C-2015	678370		
2587091015	YGWA-18I	SM 2540C-2015	678370		
2587091016	YGWA-20S	SM 2540C-2015	678370		
2587091017	YGWA-21I	SM 2540C-2015	678370		
2587091018	YGWA-5I	SM 2540C-2015	679091		
2587091019	UP-DUP-3	SM 2540C-2015	679091		
2587091020	YGWA-14S	SM 2540C-2015	679091		
2587091021	UP-DUP-2	SM 2540C-2015	679091		
2587091022	YGWA-30I	SM 2540C-2015	679094		
2587091023	YGWA-4I	SM 2540C-2015	679094		
2587091024	YGWA-5D	SM 2540C-2015	679091		
2587091025	UP-EB-2	SM 2540C-2015	679091		
2587091026	UP-FB-2	SM 2540C-2015	679091		
2587091001	YGWA-39	EPA 300.0 Rev 2.1 1993	678235		
92587091002	YGWA-40	EPA 300.0 Rev 2.1 1993	678235		
2587091003	YGWA-47	EPA 300.0 Rev 2.1 1993	678236		
2587091004	GWA-2	EPA 300.0 Rev 2.1 1993	678236		
2587091005	UP-DUP-1	EPA 300.0 Rev 2.1 1993	678236		
2587091006	YGWA-1I	EPA 300.0 Rev 2.1 1993	678537		
2587091007	YGWA-1D	EPA 300.0 Rev 2.1 1993	678537		
2587091008	YGWA-2I	EPA 300.0 Rev 2.1 1993	678537		
2587091009	YGWA-3I	EPA 300.0 Rev 2.1 1993	678537		
2587091010	YGWA-3D	EPA 300.0 Rev 2.1 1993	678537		
2587091011	UP-EB-1	EPA 300.0 Rev 2.1 1993	678537		
2587091012	UP-FB-1	EPA 300.0 Rev 2.1 1993	678537		
2587091013	YGWA-17S	EPA 300.0 Rev 2.1 1993	678537		
2587091014	YGWA-18S	EPA 300.0 Rev 2.1 1993	678537		
2587091015	YGWA-18I	EPA 300.0 Rev 2.1 1993	678537		



Project: YATES POOLED UPGRADIENT

Pace Project No.: 92587091

Date: 02/25/2022 02:44 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch
92587091016	YGWA-20S	EPA 300.0 Rev 2.1 1993	678537		
92587091017	YGWA-21I	EPA 300.0 Rev 2.1 1993	678877		
92587091018	YGWA-5I	EPA 300.0 Rev 2.1 1993	679365		
92587091019	UP-DUP-3	EPA 300.0 Rev 2.1 1993	679365		
92587091020	YGWA-14S	EPA 300.0 Rev 2.1 1993	679365		
92587091021	UP-DUP-2	EPA 300.0 Rev 2.1 1993	679365		
92587091022	YGWA-30I	EPA 300.0 Rev 2.1 1993	679365		
92587091023	YGWA-4I	EPA 300.0 Rev 2.1 1993	679365		
92587091024	YGWA-5D	EPA 300.0 Rev 2.1 1993	679365		
2587091025	UP-EB-2	EPA 300.0 Rev 2.1 1993	679365		
92587091026	UP-FB-2	EPA 300.0 Rev 2.1 1993	679365		

# Pace Analytical\*

# Document Name:

# Sample Condition Upon Receipt (SCUR)

Document No.: F-CAR-CS-033-Rev.08

Document Revised: November 15, 2021

Page 1 of 2

Issuing Authority: Pace Carolinas Quality Office

Asheville Eden Greenwood H	łuntersville 🔲 Raleigh 🗌	Mechanicsville
Sample Condition Upon Receipt  Courier: Fed Ex UPS Commercial Pace	Proje	WO#: 92587091
Custody Seal Present? Yes No Seals Int	act? Yes No	Date/Initials Person Examining Contents: 2/9/2
Packing Material: Bubble Wrap Bubble Thermometer:  Greetian ID: Correction Factor:  Cooler Temp: Add/Subtract (°C):  USDA Regulated Soil ( N/A, water sample) Did samples originate in a quarantine zone within the United S	Type of ice:	Biological Tissue Frozent  Yes No No  None  Temp should be above freezing to 6°C  Samples out of temp criteria. Samples on ice, cooling process has begun  Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?
		Comments/Discrepancy:
Chain of Custody Present?	Lyes No N/A 1.	
Samples Arrived within Hold Time?	Dives ONO ON/A 2.	
Short Hold Time Analysis (<72 hr.)?	□Yes ÆÑo □N/A 3.	
Rush Turn Around Time Requested?	□Yes ŪNo □N/A 4.	
Sufficient Volume?	₽Ves □No □N/A 5.	
Correct Containers Used? -Pace Containers Used?	Yes	
Containers Intact?	DIES DNO DN/A 7.	
Dissolved analysis: Samples Field Filtered?	☐Yes ☐No ☐N/A 8.	
Sample Labels Match COC?	□Yes □NO □N/A 9.	
-Includes Date/Time/ID/Analysis Matrix:	V .	
Headspace in VOA Vials (>5-6mm)?	Yes No ON/A 10.	
Trip Blank Present?		
Trip Blank Custody Seals Present?  COMMENTS/SAMPLE DISCREPANCY	□Yes □No ☑N/A	Field Data Required? ☐Yes ☐No
	Lo	ot ID of split containers:
CLIENT NOTIFICATION/RESOLUTION		
Person contacted:	Date/Time:	
Project Manager SCURF Review:		Date:
Project Manager SRF Review:		Date:

# Pace Analytical\*

# Document Name: Sample Condition Upon Receipt (SCUR)

Document No.: F-CAR-CS-033-Rev.08 Document Revised: November 15, 2021 Page 2 of 2

Issuing Authority:

Project # WO#: 9258709

PM: NMG

Due Date: 02/23/22

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

	. RO	ttom	nan	OIL	JOX 1:	5 10 1	151 11	unit	<i>i</i> ei 0	i bot	cies																	
lem#	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)	<b>BP45-125</b> mL Plastic H2SO4 (pH < 2) (G-)	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)	AG3A(DG3A)-250 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)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	8010	BP3A-250 mL Plastic (NH2)2504 (9.3-9.7)	AGOU-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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PH Adjustment Log for Preserved Samples  Sample ID Type of Preservative pH upon receipt Date preservation adjusted Time preservation Amount of Preservative												Lot#																

		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 DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

	App IV: Beryllium Lithium 7040A:	App III	Anions		12	11	10	9	8	7	6	Ø1	4	3	2	-	ITEM#		Sanbay	Phone:	Email To:	П	Address:	Require	Section A
	App IV: Metals 6020B: Antimorty (Sb), Arsenic (As), Barium (Ba), Beryilium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (L), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	App III Metals: Beron 6020B, Ca 6010D; App VII 6020B; Zn, Ag, Ni, V	Anions Suite 300.0 (Cl. F, Sulfate)	ADDITIONAL COMMENTS	DP-FB-T	UP EB 1	XGWA-30I	URDUP-2	YOWA 145	Y6WA3B	XGWA 3I	YGWAZI	YGWA-18	YGWA-11	YGWA-40	YGWA-39	SAMPLE ID  SAMPLE ID  Solfoods  One Character per box.  (A-Z, 0-9 1, -)  Sample ids must be unique  Description  Those		requested Due Date:	Fax			Atlanta, GA	Client Information:	<b>P</b>
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	App IV: Berylliur Lithium 7040A:	App III A	Anions :		12	11	5	9	œ	7	6	5	4	3	2		ITEM#			conhora	Phone:	Email To:		Address	Require	Section A
	App N: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molyodenium (Mo), Selenium (Se) 7040A: Mercury (Hg)	App III Melals: Boron 6020B, Ca 6010D; App III 6020B; Zn Ap, Ni. V	Anions Suite 300.0 (Ct. F., Sulfate)	ADDITIONAL COMMENTS	WA-ZII-	XGWA-203	XGWA-181 70-	HOWA-188-24-	XGWA-175- Am	XCMW-50- MC	UP-BUP-3 - M	XBMWST M	XGWA-dT M	AP-BOB-1- Ave	GWA-2 - SA	YGWA-47	SAMPLE ID  One Character per boox.  (A-Z, 0-5 (-, -)  Sample ids must be unique  Taxon  Taxon	MATRO		reduested one cate:	Fax	х.		Atlanta GA	I₩	•
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		M	>	P	W.	WT	TW.	WT	TW	W	TW	TW	TW:	WT	WT	TW.	MATRIX CODE (see valid code	-	$\left\{ \right.$	mber:	e.	Order #	1		Project	
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HE AND		12	2		,		1		,		7	,	-		1	_	END END				adient					The Chain-of-Custody is a LEGAL DOCUMENT.
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER:		19/2	19/22	DATE	Ĥ					+	+	+	+	-	1	-	SAMPLE TEMP AT COLLECTION		1							ol-Cusu
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		App N: Metals 6020B: Antimony (Sb.), Arsenic (As), Berium (Ba), Berylfum (Be), Cedmium (Cd), Chromium (Cr), Cobatt (Co), Lead (Pb), Lthium (Li), Marybderium (Mo), Selenium (Se) 7040A: Mercury (Hg)	App III Metals: Boron 8020B, Ce 6010D; App III 8020B: Zn, Ag, Ni, V	Anions Suite 300.0 (Ct, F. Sulfate)	ADDITIONAL COMMENTS	Y6WA-211	XCWA-206	YGWA 181	LIGWA-18S	*O#**176	*GWA-50	UP-DUP-3	YOWA-SI-	- III-MBW	UP-DUP-1	GWA-2	YGWA-17	MATRI Devau Weav Wase SAMPLE ID Serios Che Character per box. (A-Z 0-91,-) Sample ids must be unique Than		Requested Due Date:			Attanta, GA	3	
		(Ba) , Lead (Pb).																M. Wester Wester	in open	Project Number	Purchas		Copy To:	Require	Section B
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# Georgia Power Co. – Plant Yates

# **Data Review Report**

Radium Analyses

SDG #92587080

Analyses Performed By:

Pace Analytical Services - Greensburg, Pennsylvania

Report #45261R Review Level: Tier II Project: 30052922.00004

# **Summary**

This Data Review Report summarizes the review of Sample Delivery Group (SDG) #92587080 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			Analysi	S
Sample ID	Lab ID	Matrix	Collection Date	Parent Sample	RAD	MET	GEN CHEM
YGWC-49	92587080001	Water	2/8/2022		Х		
YGWC-41	92587080002	Water	2/8/2022		Х		
AMA-DUP-2	92587080003	Water	2/8/2022	YGWC-41	Х		
YGWC-43	92587080004	Water	2/8/2022		Х		
AMA-EB-1	92587080005	Water	2/8/2022		Х		
YAMW-5	92587080006	Water	2/10/2022		Х		
PZ-37	92587080007	Water	2/10/2022		Х		
AMA-DUP-4	92587080008	Water	2/10/2022	PZ-37	Х		
PZ-51	92587080009	Water	2/10/2022		Х		
YAMW-1	92587080010	Water	2/10/2022		Х		
PZ-35	92587080011	Water	2/10/2022		Х		
YAMW-4	92587080012	Water	2/10/2022		Х		
YGWC-23S	92587080013	Water	2/10/2022		Х		
YGWC-38	92587080014	Water	2/10/2022		Х		
YGWC-42	92587080015	Water	2/10/2022		Х		
YGWC-24SA	92587080016	Water	2/10/2022		Х		
AMA-DUP-1	92587080017	Water	2/10/2022	YGWC-24SA	Х		
YGWC-36A	92587080018	Water	2/11/2022		Х		
YAMW-2	92587080019	Water	2/10/2022		Х		

# Data Review Report

			Sample			Analysis	;
Sample ID	Lab ID	Matrix	Collection Date	Parent Sample	RAD	MET	GEN CHEM
YAMW-3	92587080020	Water	2/10/2022		Х		
AMA-EB-2	92587080021	Water	2/10/2022		Х		
AMA-FB-1	92587080022	Water	2/10/2022		Х		
AMA-FB-2	92587080023	Water	2/10/2022		Х		
PZ-37D	92587080024	Water	2/11/2022		Х		
PZ-52D	92587080025	Water	2/11/2022		Х		

# **Analytical Data Package Documentation**

The table below evaluates the data package completeness.

Items Reviewed	Rep	orted	7 7	mance ptable	Not Required
	No	Yes	No	Yes	Required
Sample receipt condition		Х		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 9315 and 9320. 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), and the USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA 542-R-20-006, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, OSWER 9240.1-45, October 2004, as appropriate).

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

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

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

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot

# Data Review Report

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.

# 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 (MCD).

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-228, Radium-226, and total Radium were detected in the method blanks, and equipment blank AMA-EB-2, and field blank AMA-FB-2, however, the activities were measured as less than the uncertainty and MDC or between the uncertainty and MDC as described above. Hence, the blank results are considered non-detect and no qualification of the results was required.

Radium-226 was detected in equipment blank AMA-EB-1 at an activity above the MDC. The associated field sample results were either less than the MDC or had a NAD greater than 2.58, hence, no qualification of the results was required.

Radium-228 was detected in field blank AMA-FB-1 at an activity above the MDC. The associated field sample results were less than the MDC, hence, 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.

<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

c = spike concentration added.

 $u^2(x)$ ,  $u^2(x0)$ ,  $u^2(c)$  = the squares of the respective standard uncertainties of these values.

MS performance for all matrices is acceptable when the numerical performance indicator calculation yields a value between ±3 sigma. Warning limits have been established as ±2 sigma.

MS analysis was not performed using a sample from this SDG.

# 3.2 Laboratory Duplicate Analysis

Duplicate analyses are indicators of laboratory precision based on each sample matrix. For replicate analysis results to be considered in agreement the duplicate error ratio (DER) must be less than 2.13. In the event the DER is outside of the limit of 2.13, a numerical indicator to make assessments is calculated, with a limit of ±3 sigma or standard deviation.

The numerical performance indicator for laboratory duplicates is calculated by:

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

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 PZ-52D in association with SW-846 9315 analysis exhibited acceptable difference between the results.

# 4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. 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	0.0438 ± 0.104	0.187 ± 0.143	
YGWC-41 / AMA-DUP-2	Radium-228	$0.550 \pm 0.383$	-0.113 ± 0.387	AC
	Total Radium	0.594 ± 0.487	0.187 ± 0.530	
	Radium-226	0.430 ± 0.179	0.583 ± 0.199	
PZ-37 / AMA-DUP-4	Radium-228	0.380 ± 0.569	-0.213 ± 0.705	AC
	Total Radium	0.810 ± 0.748	0.583 ± 0.904	
	Radium-226	0.0181 ± 0.0599	0.0380 ± 0.0672	
YGWC-24SA / AMA-DUP-1	Radium-228	0.828 ± 0.513	-0.0252 ± 0.520	AC
	Total Radium	0.846 ± 0.573	0.0380 ± 0.587	

### Note:

AC = Acceptable

The differences in the results between the parent sample YGWC-41 and field duplicate sample AMA-DUP-2 were acceptable. It was noted that the Radium-226, Radium-228, and total Radium results in these samples are considered not detected based on the criteria discussed in Section 7.

The differences in the results between the parent sample PZ-37 and field duplicate sample AMA-DUP-4 were acceptable. It was noted that the Radium-228 and total Radium results in these samples are considered not detected based on the criteria discussed in Section 7.

The differences in the results between the parent sample YGWC-24SA and field duplicate sample AMA-DUP-1 were acceptable. It was noted that the Radium-226, Radium-228, and total Radium results in these samples are considered not detected based on the criteria discussed in Section 7.

# 5. Tracer or Carrier

Tracers and carriers are used in radiological separation methods to provide evaluation of chemical separation. Chemical yield is evaluated through the recovery of chemical species spiked into samples. Yield is evaluated radiometrically with a tracer and gravimetrically with a carrier. A control limit of 30% to 110% is applied to each sample spiked with either a carrier and/or a tracer.

The tracer and carrier analyses exhibited recoveries within the control limits.

# 6. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS/LCSD analysis must exhibit a percent recovery

between the control limits of 60% to 135%. In the event the recovery is outside of this limit, a numerical indicator to make assessments is calculated, with a limit of +/- 3 sigma.

The numerical performance indicator for a laboratory control sample is calculated by:

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

Where:

x = Analytical result of the LCS

c = Known concentration of the LCS

 $u^2(x)$  = combined standard uncertainty of the result squared.

 $u^2(c)$  = combined standard uncertainty of the LCS value squared.

LCS performance is acceptable when the numerical performance indicator calculation yields a value between ±3 sigma. Warning limits have been established as ±2 sigma.

The LCS/LCSD analysis exhibited recoveries within the control limits.

# 7. Isotope Identification

For sample results to be considered "non-detect", evaluate data based on the following two criteria. <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:

- YGWC-49, YGWC-41, AMA-DUP-2, YAMW-4, YGWC-23S, YGWC-38, YGWC-24SA, AMA-DUP-1, YGWC-36A, and YAMW-2 Radium-226, Radium-228, and total Radium
- YAMW-5, PZ-37, AMA-DUP-4, PZ-51, YAMW-1, PZ-35, YGWC-42, YAMW-3, and PZ-37D 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			ı	ı	
A. Method Blanks		X		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		Х	

# Notes:

%R Percent recovery

RPD Relative percent difference

VALIDATION PERFORMED BY: Jennifer Singer

SIGNATURE:

DATE: April 26, 2022

Sknrije Osinger

PEER REVIEW: Dennis Capria

DATE: April 27, 2022

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App IV: Berylliu Lithium	Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), m (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pt (Li), Molybdenum (Mo), Selenium (Se) Mercury (Hg)	0).				<b>Y</b>											- 6						<u> </u>	٠٥.		-			
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	I														9	es v	APRO	Requ	ested	Analy	als Filt	ered (	Y/N)	900		user and a	NO. OF THE REAL PROPERTY.
ITEM #	MATRIX Drinking Wate Water Water Water Water Water Product SAMPLE ID One Character per box. (A-Z, 0-9 1, -1) Sample kids must be unique  MATRIX Drinking Water Water Product Oil Oil Oil Oil Oil Oil Oil Oil Oil Oil	W/D	MATRIX CODE (see valid codes to left) SAMPLE TYPE (G=GRAB C=COMP)	ST	COLLE	947 <del>——Жазн</del> п	ND	PLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved H2SO4		serva	03			Analyses lest Y/N	CI. F. SO4	(2540C)	RAD 9315/9320					Residual Chlorina (Y/N)			
E		- 1	NAT SAM	DATE	TIME	DATE	TIME	SAMPLE	9	12S(	HN03	E E	482 S	Agth.	other .	4 8	L L	TDS (	1ĕ					bise			
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ITEM#	SAMPLE ID  One Character per box. (A-Z, 0-9 /, -) Sample Ids must be unique		MATRIX CODE (see valid or	SAMPLE TYPE (G=GRAB C=CCMP)	STA	ART TIME	E DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HOI	NaOH	Na2S2O3 Methanol	Other	Analyses Test	App III/IV Metals	CI, F; SO4	RAD 9315/9320						Residual Chlorine (Y/N)			
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	Drinking Wate Water Waste Water Waste Water Product SAMPLE ID Solf-Solid	WT WW P SL	(see valid codes	ST ST	ART	,	ND	AT COLLECTION								est										(X/N)			
ITEM #	One Character per box. Wipo (A-Z, 0-9 / , -) Other Sample ids must be unique Tissue	OL WP AR OT TS	MATRIX CODE (9					SAMPLE TEMP AT	# OF CONTAINERS	Unpreserved	HZSO4	HG.	NaOH	Na2S2O3 Methanol	Other	Analyses	App III/IV Metals	F. SO4	RAD 9315/9320							Residual Chlorina (Y/N)			
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Anions S	uite 300.0 (Cl, F, Sulfate)		<u> </u>	76	~	/Arcadis		122	1	145		M	nent	N <sub>1</sub>	(a	18	w				21	Ш	1	14962				<u> </u>	
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ITEM #	MATRIX Ornshing Wate Water Waste Wester Waste Wester Product SolfSold Oil One Character per box. (A-Z, 0-9 /, -) Sample ids must be unique	WT	(see valid o	SAMPLE TYPE (G=GRAB C=COMP)	START		EN		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2804		HOPN		Methanol	Analyses Test V/N	Aetals		TDS (2540C)	RAD 9315/9320							Residual Chlorine (Y/N)				
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12			***			a company of the last	and the same of	-	Access to the	1000		marin mar	and the same								Co. B.Fri	-	On the last	Service and	1000		-	-	Commence of the last	-	-	
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App III M	etals: Boron 6020B, Ca 6010D	IIV	NA	W.	Ch?	- \\\	$\dashv$	2/11	12	V	94(	7	<u>_</u>	QW	$\nu$		/					-   -	1/1	a	ЦĞ	SAS	+		├──	—	┼	
Beryllium Lithium (l	letals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (P i), Molybdenum (Mo), Selenium (Se) lercury (Hg)	b).					$\frac{1}{2}$															$\frac{1}{2}$									_	
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						SIGNAT	URE	of SAMP	LER:	21	1	1	1	1					DAT	E Sig	ned:	2	11	(le	2_			頁	Receiv (Y/N)	Custod Sealed Cooler	Sample	S.

Section	A	Section B							Sec	tion	С														г			101		Б
Require	d Client Information:	Required Pro	oject	Information	ode was				Inve	oice I	nform	ation	:													Pag	le :	- (	Of	2
Compa		Report To:	SC	S Contacts					Atte	ntion	S	outh	em C	o.											_					
Address	Atlanta, GA	Сору То:	Arc	adis Conta	cts	253			Con	npany	/ Name	11						****												
200					A478	30.0	4.44		Add	ress:		12	-5.1 (0.2)								£ 100	YUM	UKUS S	reap	Re	gulate	ory A	gency	Carries	TO MOVE
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Phone:	Fax	Project Name	:	Plant Yate	s AMA-F	₹6			Pac	e Pro	ject Ma	anage	er:								機能		W. 10	Abi		State /	Loca	ation		Alludros.
Reques	led Due Date:	Project Numb	<b>8</b> F.		-0.00				Pac	e Pro	file #:	10	0840		1000											Ge	orgia	1	200	
			_						_							200	200	378	teque	ested	Anah	ysis F	litere	d (Y/	N)		88	No.		W. 1977
63	MATRIX Ornixing Water Water Waster Waster Waster Waster Waster Product SAMPLE ID Solf30sid	WT	(see valid codes to left)	(G=GRAB C=COMP)	COLLI	ECTED	:ND	AT COLLECTION	s		F	rese	rvativ	es		Test Y/N											(V/V)			4
ITEM#	One Character per box. Wipe (A-Z, 0-9 / , -) Air Other Tiesue			SAMPLE TYPE		DATE	TIME	SAMPLE TEMP AT	# OF CONTAINERS	Unpreserved	H2SO4	Ę	NaOH	Na2S203	Methanol	Analyses T	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320							Residual Chlonne (Y/N)	\$1 60		
100	YAMW-4		WT	G 2/10/21	1200	-	-		5	2	- 3		П	$\top$	$\top$	т	x	-	x	х					$\Box$		Г	рН: 6	10	
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4	AMA DUP-4	$\overline{}$	WΤ	_		-	-		5	2	3	1	$\vdash$	_	_	4	×	X	×	X	$\perp$	$\perp$	_			_	4 /	pH:		
5	PZ-37D		WT	G			10.7	-07	5	2	3			-			Х	X	x	x		1					1.7	pH:		3)
6 -	PZ-51		WT	G		y		-	5	2	3		П			1	x	х	х	х	$\neg$					1	1 /	pH:		
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ODMOUR	PZ-52U	$\overline{}$	WT	_		_		-	-	$\rightarrow$	-	+	+	+	+	ł	⊢	-	-	$\rightarrow$	+	+	+	Н	+	+	1 1	pH:	-	_
8	YAMW-1	-	$\rightarrow$	_	-	-	1 -1		5	2	3	+	₩	+	+	4	X	-	×	×	-	+	+-	-	-	-	4 /	pH:		
9 -	PZ-95		WT	G			-		5	2	3						Х	Х	х	х		9 3			1			pH:		
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					SAMPLER	NAME	AND SIGN	IATURE	保留			10	HES.	8350	1	7 4	(5)38	FAIR	dia	(C)	705	1.6		Marie Control	Terror L	l	$\neg$	-		
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					SIG	NATURE	of SAMP	LER:	Le	N	16	u	pr	پ				DATE	Sign	ned:	21	10	12	2		Li	ڐ	38.2	Custod Sealed Cooler (Y/N)	Sarr

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Compan	The state of the s	Report To:		S Contac				_	-	ntion:	-		ern C	_						_					Page :			UT E	p=
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Email To	2	Purchase C	rder#	:					-	Quo	te:			1000						-				ivel	ulana y	Agenc	-		Particular Property
Phone:	Fax	Project Nam	10:	Plant Ya	les AMA-	R6			_		ect Ma	inagei	- I	Vicole	a D'C	leo				(0)	67 YEAR	(TALLEY )	NEW YEAR	St	ate / Lo	ation	DEPAILS	NO. INC.	- 305/37
Request	ed Due Date:	Project Nun	nber:						_	Profi			840							-					Georg				
	1 0 0														6 9	200	360	Re	ques	ted A	nailysis	Filters	d (Y/	4)	443 9	(D) 100	Section.		4-1-12
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	Drinking Wat		codes to left)	C=COMP)	-	1	- 1	AT COLLECTION	Ιŀ	1	1	T		<u> </u>		100	7	$\neg$	+	_	++	$\overline{}$	_			$\overline{}$			
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	One Character per box. Wipe (A-Z, 0-9 / , -) Ar	WP AR	삥	쀭					# OF CONTAINERS	2			11			Analyses	eta	- 1,	- 18	D298/215/6/20	П		Н		Residual Chlorina				
##	Sample ids must be unique That us	OT TS	MATRIX CODE	SAMPLE TYPE				SAMPLE TEMP	탏	Unpreserved	. 1		Hali	ვ  გ	1	اڇَا	2	8   8	(2540C)	<u> </u>	11		ш		[	ì			
ITEM	118800	10	≩	[₹]	9			I ₹	ĬΫ	§ 3	H SS C		NaOH	Methanol	₪	اڇَا	App III/IV	CI, F, SO4	<u> </u>	3	11	1	ш		-				30
±	Mary 3 300		₹	S DATI	TIME	DATE	ПМЕ	₹.	<b>2</b>	5 3	원   폭	오	2 :	2 2	Other	10.0	ş	0 1	2 3	2				33					- U
1	YGWC-23S		WT	GELIOIZ	21510	-			5	2	3	T		Т		П	х	X	x :	×	П					pH:	5.5	1	
2	YGWC-Z4SA		WT	G	-	-	-		5	2	3			Т		[	х	x	x :	x	П					pH:	-		-01
3	AMA-DUP-1		WT	G _	_	-	-		5	2	3			$\perp$		l [	х	x	<b>x</b> :	×						pH:			
4	YGWC-36A		WT	G	-	-	-		5	2	3					ш	х	<b>x</b> :	x :	x						pH:			
5	YGWC-49-		WT		_	100 TAG			5	2	3			$\perp$			х	<b>x</b> .	x :	x		7		30.00		pH:			- 15
6	YGWC-38		WT	G 2 10	2015	- 1	- 1		5	2	3						х	x :	x :	×				3		pH:	4.8	5	
7	YGWC-41		WT	G	-	-	_	$oxed{oxed}$	$\rightarrow$	2	3	+		1	Ш		-	× :	-	× L	$\perp$	$\perp$	Ш		Ш	pH:			
8	AMA-DUP-2		WT	G	-		-		5	2	3			$\perp$	Ш	ı	x	x :	×   2	<u> </u>	$\sqcup$	$\perp$	Ш			pH:			
9	YGWC-42		_	GENO	2 63	5 -	-		$\rightarrow$	2	3	-		$\perp$	Ш	L	-	_	x   2	<u> </u>	Н	$\perp$	Ш	_	Ш	pH:	5,5	7	
10	VGWC-43		WT	G			- 1		$\rightarrow$	2	3	-		+	Н	1	-	-	+	<u> </u>	Н	$\perp$	Н	_	ш	рH;		20	
11	YAMW-2		WT	_		-	-		-	2	3	+	1	+	П	- II	-	-	+	١.	$\vdash$	$\perp$	Н	-	Н	pH:	_		
12	YAMWA-		WT	G		-			5	2	3				Ш	$\perp$	x	x 2	x   2	4		$\perp$			$\perp$	pH:			
	ADDITIONAL COMMENTS	RE	LING	UISHED BY	/ AFFILIAT	TION	DA	TE	2 T	ME			ACC	EPTE	D BY	/ AFI	FILIA	TION	NO.		DA	TE		TME	100 TO 10	SAME	LE CON	DITION	9
Anions St	uite 300.0 (Cl, F, Sulfate)		10	7	2	/Arcadis	zhil	22	14	45	1	h	her	1	Ch	th	n				24	(2)	14	45	22			$\neg$	
	stals: Boron 6020B, Ca 6010D	hh	aln	Car	To al	ads	_	ar	10	45	, 7	Du	~	W	r	2		_			211		16	45		T			
	letals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba),	1,40	VI (4	C C DIV	ANT INT	~ (0//)	A1 ()	10-8		- ( )	+	1.1	_		1						1	100	1,4					$\rightarrow$	-
	(Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pt	b),				$\rightarrow$		-			_				•						_	_	_			-	_	_	- 1
	), Molybdenum (Mo), Selenium (Se)																				19								- 1
/U40A: M	ercury (Hg)		_		SAMDIE	R NAME /	MD SIGN	ATIDE	USE	5053	E 200	1000	North Control	S/(CS)	16,64	DERE	35 E	LITTLE T	2030	Sins	2000					-	-	-	
					estimate Sexual	Description and	190070279000	MONTH THE	-	ACC SO	90506	MUTER	Sarah		86702	1000	Min.	OF.	THE P	HALL	AND S	CAT S	PERSONAL PROPERTY.	100	ပ္	8			<u>,</u>
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					SI	GNATURE	of SAMF	LER:	R	1		1	1			$\perp$	D,	ATE S	Signe	id: <	Zhi	2	2		Ę	<b>2</b> 2	\$ 83	38	San Trac
						SNATURE			C n	1	ap	Z	ins	Ki		I	Da	ATE S	Signe	id: «	zhi	2	Z		TEMP in (		Š	72 l	§ k

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Section	n A	Section B				Section (	;					1	2 ~~
		Required Projec	t Information	:		Invoice to	formation:			Pa	age:	1	or 35
Compa			CS Contacts	5		Attention:	Southern Co.		]			-	
Addres	s: Atlanta, GA	Copy To: Are	cadis Conta	acts		Company	Name:						
			-			Address:			最为政治特别	Regul	latory A	gency	DESCRIPTION OF THE PARTY OF THE
Email 1		Purchase Order #				Pace Quo							
Phone:		Project Name: Project Number:	Plant Yate	s AMA-R6			ect Manager: Nicole D'Ol	eo	Marie Report Spiriter		e / Loca		
Reques	sted Due Date:	Project Number:				Pace Prof	ile #: 10840				Georgia		
ITEM#	MATRIX Drinking Wate Water Water Water Wate Water Water Water Water Water Water Water Water Water Water Water Water Water Water Water Solf Solf Off Off Off Off Off Tissue	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)		SAMPLE TEMP AT COLLECTION	NTAIN		Analyses Test Y/N App III/IV Metals CI, F, SO4 TDS (2540C) RAD 9315/9320	d Analysis Filters	a (YM)	Residual Chlorine (Y/N)		
100	YGWC-23S		G	_	-	9 5 2	-+3++++	XXXX		$\overline{}$	$\top$	su.	_
2	YGWC-24SA	WT	<del>    , , , ,</del>		-	5 2	3	xxxx			┨.	pH: pH: くし	n ( n
3	AMA-DUP-1	wt		-	-	5 2	3	x x x x				pH:	
4	YGWC-36A	wī	G	-	-	5 2		XXXX			_	pH:	
5	YCWC 49	wt	-	-	_	5 2	-131-1-1-1	X X X X			┥ .	pH:	
Kanna	-	WT	-	<del>  -</del>	-	5 2	+3+	× x x x			$\dashv$		
6	YGWC-38	wt		-	<del>  _                                   </del>	3 2	13				$\dashv$	pH:	
School Street	¥9WC-41	wt		<del>                                     </del>	-	5 2		~ ^ ^ ^ ^			-1	pH:	-
8	AMA-DUP-2	wt	-			5 2	3	V V V V			-	pH:	
9	YGWC-42	WT			-		3	XXXX	-	+++	$\dashv$	pH:	
10	<del>Y6WC 43</del>	wt	$\vdash$	<del>                                     </del>	<del></del>	1-1-1		X X X X		+++	-	pH:	
11			-	<del>                                     </del>	-	5 2		* * * *		$-\!\!+\!\!-\!\!\!+$		pH:	
12	<del>YAMW-3</del>	wt	G			5 2	3	XXXX			$\perp$	pH:	
	ADDITIONAL COMMENTS	RELING	UISHED BY /	AFFILIATION	DATE	TIME	ACCEPTED BY	AFFILIATION	DATE	TIME	RES.	SAMPLE CON	OMONS
Anions	Suite 300.0 (Cl, F, Sulfate)	hho	1/1/	WFuncadis	2/11/2	Slags	min c	~	4/1/22	11/1/			
	Aetals: Boron 6020B, Ca 6010D	1 11 11				1100	10-001		1000	W-7			
App IV: Berylliun Lithium	Metals: Boron 6020B, Ca 6010D Metals 6020B: Antimony (Sb), Arsenic (As), Barlum (Ba), n (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb (Li), Molybdenum (Mo), Selenium (Se) Mercury (Hg)	o).						14					
				SAMPLER NAME	AND SIGNATU	RE N				100		_	
				PRINT Nam	e of SAMPLER	KI	ralil Carsin	DATE Signed:	1200		TEMP in C	Received on Ice (Y/N) Custody Sealed	Cooler (Y/N) Samples Intact (Y/N)

O		Section B								c															_					P ag
Section		Required P	rolec	t Informa	ition:					tion C sice In		ation													۱.	age :	7		Of	2
Compai		Report To:	_	S Conf				-	_	ntion:		_	em (							$\neg$					-	age .			0,	
Addres		Сору То:			ontacts		7	17	Com	рапу									- 122											
1									_	ress:											(SILVE)	5620	SEASON.		Regu	latory	Agenc	y	200, 150	200
Email T		Purchase Or							_	e Quo										_										
Phone:		Project Name Project Num	_	Plant	Yates AMA	-R6			_	e Proj	_			Nic	ole [	)'Ole	0	160		-	100-10		UNUNC	100	Sta	te / Lo	-		SPAKOR	Chilly and a
Reques	ed Due Date:	roject Num	Der:						Pace	e Prof	ile #:	10	840	_	_	- 10	NAME OF	merci.	D		Analy	ele El	Itomod	NA	- Community	Georg	ia		HALL SA	No. of Concession, Name of Street, or other Designation, Name of Street, or other Designation, Name of Street,
	MATRIX Orrhiting Water Water	CODE W DW WT	codes to left)	s C=COMP)	COL	LECTED		CTION				Prese	rvati	/es		185	I	I								- I				
ITEM#	SAMPLE ID  One Character per box.  (A-Z, 0-9 / , -)  Sample ids must be unique  Weste Water Product Od Wipe Ar Other Tieque	WWW P SL OL WP AR OT TS	(see valid	MPLE TYPE (G=GRAE	START		TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	E I	NaOH	Na2S2O3	Methanol	Other	App III/V Metals	CI, F, SO4	TDS (2540C)	RAD 9315/9320					**	Reciding Chloring (VIN)				
E 163	YGWC-23S		WT	G		-	-		5	2	Т	3	П	П	П	Т	Tx	X	х	х			П	Т		П	рН:			
2	YGWC-24SA		WT	G		-	-		5	2		3	П		$\neg$	7	X	×	х	х		$\top$				П	pН			
3	AMA-DUP-1		WΤ	G		_	_		5	2		3	П			7	X	×	х	х			П				pH:			
4	YGWC-36A		WT	G 2/	1/22 1119	-	-		5	2		3			$\neg$	7	Ix	×	x	х			П	$\neg$				5.5	22	
5	XGWC-19			G	-	-	_		5	2	1	3	Н	T	$\forall$	7	T <sub>x</sub>	×	x	x	+	t	$\Box$	+			pH:			
6	YGWC-38	10000	WT	G	$\neg$	_	- I		5	2	1	1	Н	┪	$\forall$	7	Ι×	T <sub>x</sub>	x	x	+	$^{\dagger}$	Н	$^{+}$		н	pH:			2.5
7	ÝGWC-41		wτ	G		-			•	2	+	1	H		$\neg$	1	T <sub>x</sub>	1×	x	x	+	$^{+}$	Н	$^{+}$		П	pH:			
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		SIC	SNATUR	E of SAM									DATE Signed: 2/11/4									TEMP in (	2 Sec. 3	Seale Seale		Intact						

# CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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PRINT Name of SAMPLER: Vim Lassunsk

TEMP in C

DATE Signed: 2/11/22

SAMPLER NAME AND SIGNATURE

SIGNATURE of SAMPLER:



SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92587080				N	o qualifie	ers assigned	





April 12, 2022

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

RE: Project: YATES AMA-R6 RAD

Pace Project No.: 92587080

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between February 09, 2022 and February 14, 2022. 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,

Micole D'oleo

Nicole D'Oleo nicole.d'oleo@pacelabs.com (704)875-9092 Project Manager

**Enclosures** 

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Becky Steever, Arcadis
Albert Zumbuhl, Arcadis



(770)734-4200



#### **CERTIFICATIONS**

Project: YATES AMA-R6 RAD

Pace Project No.: 92587080

#### 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 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

Missouri Certification #: 235

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: YATES AMA-R6 RAD

Pace Project No.: 92587080

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92587080001	YGWC-49	Water	02/08/22 18:00	02/09/22 10:18
92587080002	YGWC-41	Water	02/08/22 16:20	02/09/22 10:18
92587080003	AMA-DUP-2	Water	02/08/22 00:00	02/09/22 10:18
92587080004	YGWC-43	Water	02/08/22 10:20	02/09/22 10:18
92587080005	AMA-EB-1	Water	02/08/22 18:36	02/09/22 10:18
92587080006	YAMW-5	Water	02/10/22 11:30	02/11/22 16:45
92587080007	PZ-37	Water	02/10/22 13:05	02/11/22 16:45
92587080008	AMA-DUP-4	Water	02/10/22 00:00	02/11/22 16:45
92587080009	PZ-51	Water	02/10/22 18:10	02/11/22 16:45
92587080010	YAMW-1	Water	02/10/22 11:55	02/11/22 16:45
92587080011	PZ-35	Water	02/10/22 14:37	02/11/22 16:45
92587080012	YAMW-4	Water	02/10/22 12:00	02/11/22 16:45
92587080013	YGWC-23S	Water	02/10/22 15:10	02/11/22 16:45
92587080014	YGWC-38	Water	02/10/22 09:50	02/11/22 16:45
92587080015	YGWC-42	Water	02/10/22 16:35	02/11/22 16:45
92587080016	YGWC-24SA	Water	02/10/22 14:40	02/11/22 16:45
92587080017	AMA-DUP-1	Water	02/10/22 00:00	02/11/22 16:45
92587080018	YGWC-36A	Water	02/11/22 11:19	02/11/22 16:45
92587080019	YAMW-2	Water	02/10/22 09:45	02/11/22 16:45
92587080020	YAMW-3	Water	02/10/22 15:35	02/11/22 16:45
92587080021	AMA-EB-2	Water	02/10/22 12:46	02/11/22 16:45
92587080022	AMA-FB-1	Water	02/10/22 15:02	02/11/22 16:45
92587080023	AMA-FB-2	Water	02/10/22 16:00	02/11/22 16:45
92587080024	PZ-37D	Water	02/11/22 16:35	02/14/22 13:25
92587080025	PZ-52D	Water	02/11/22 14:00	02/14/22 13:25



## **SAMPLE ANALYTE COUNT**

Project: YATES AMA-R6 RAD

Pace Project No.: 92587080

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92587080001	YGWC-49	EPA 9315		1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587080002	YGWC-41	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587080003	AMA-DUP-2	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587080004	YGWC-43	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587080005	AMA-EB-1	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587080006	YAMW-5	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587080007	PZ-37	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587080008	AMA-DUP-4	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587080009	PZ-51	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587080010	YAMW-1	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587080011	PZ-35	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587080012	YAMW-4	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587080013	YGWC-23S	EPA 9315	JC2	1	PASI-PA

## **REPORT OF LABORATORY ANALYSIS**



## **SAMPLE ANALYTE COUNT**

Project: YATES AMA-R6 RAD

Pace Project No.: 92587080

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320		1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2587080014	YGWC-38	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2587080015	YGWC-42	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2587080016	YGWC-24SA	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2587080017	AMA-DUP-1	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2587080018	YGWC-36A	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2587080019	YAMW-2	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2587080020	YAMW-3	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2587080021	AMA-EB-2	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2587080022	AMA-FB-1	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2587080023	AMA-FB-2	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2587080024	PZ-37D	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2587080025	PZ-52D	EPA 9315	JC2	1	PASI-PA

## **REPORT OF LABORATORY ANALYSIS**



## **SAMPLE ANALYTE COUNT**

Project: YATES AMA-R6 RAD

Pace Project No.: 92587080

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg



Project: YATES AMA-R6 RAD

Pace Project No.: 92587080

Lab Sample ID	Client Sample ID					Q 11.41
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587080001	YGWC-49					
EPA 9315	Radium-226	0.201 ± 0.151	pCi/L		02/28/22 07:44	
		(0.252)				
EDA 0000	Dayling 000	C:93% T:NA -0.0391 ±	~ 0://		00/05/00 45 00	
EPA 9320	Radium-228	-0.0391 ± 0.363	pCi/L		02/25/22 15:02	
		(0.851) C:79%				
		T:80%				
Total Radium Calculation	Total Radium	0.201 ±	pCi/L		02/28/22 18:24	
		0.514 (1.10)				
2587080002	YGWC-41					
EPA 9315	Radium-226	0.0438 ±	pCi/L		02/28/22 07:44	
		0.104 (0.247)				
		C:99% T:NA				
EPA 9320	Radium-228	0.550 ± 0.383	pCi/L		02/25/22 15:02	
		(0.742)				
		C:82% T:85%				
Total Radium Calculation	Total Radium	0.594 ±	pCi/L		02/28/22 18:24	
		0.487 (0.989)				
2587080003	AMA-DUP-2	(0.000)				
EPA 9315	Radium-226	0.187 ±	pCi/L		02/28/22 07:44	
		0.143 (0.250)				
		C:102%				
-DA 0220	Dadium 220	T:NA -0.113 ±	~C:/I		00/05/00 45:00	
EPA 9320	Radium-228	-0.113 ± 0.387	pCi/L		02/25/22 15:02	
		(0.928) C:67%				
		T:78%				
Total Radium Calculation	Total Radium	0.187 ± 0.530	pCi/L		02/28/22 18:24	
		(1.18)				
2587080004	YGWC-43					
EPA 9315	Radium-226	2.34 ±	pCi/L		02/28/22 07:45	
		0.506 (0.185)				
		C:101%				
EPA 9320	Radium-228	T:NA 0.771 ±	pCi/L		02/25/22 15:02	
	. tadiani EEO	0.380	P0"L		52,20,22 10.02	
		(0.655) C:84%				
		T:85%				
Total Radium Calculation	Total Radium	3.11 ± 0.886	pCi/L		02/28/22 18:24	
		(0.840)				

## **REPORT OF LABORATORY ANALYSIS**



Project: YATES AMA-R6 RAD

Pace Project No.: 92587080

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
2587080005	AMA-EB-1					
EPA 9315	Radium-226	0.255 ± 0.151 (0.222) C:100%	pCi/L		02/28/22 07:45	
EPA 9320	Radium-228	T:NA 0.400 ± 0.404 (0.841) C:85%	pCi/L		02/25/22 15:03	
Total Radium Calculation	Total Radium	T:88% 0.655 ± 0.555 (1.06)	pCi/L		02/28/22 18:24	
2587080006	YAMW-5					
EPA 9315	Radium-226	0.552 ± 0.189 (0.174) C:92% T:NA	pCi/L		03/21/22 12:32	
EPA 9320	Radium-228	0.698 ± 0.586 (1.17) C:65% T:83%	pCi/L		03/14/22 19:44	
Total Radium Calculation	Total Radium	1.25 ± 0.775 (1.34)	pCi/L		03/22/22 15:20	
2587080007	PZ-37					
EPA 9315	Radium-226	0.430 ± 0.179 (0.231) C:94% T:NA	pCi/L		03/21/22 12:38	
EPA 9320	Radium-228	0.380 ± 0.569 (1.23) C:63% T:83%	pCi/L		03/14/22 19:44	
Total Radium Calculation	Total Radium	0.810 ± 0.748 (1.46)	pCi/L		03/22/22 15:20	
2587080008	AMA-DUP-4					
EPA 9315	Radium-226	0.583 ± 0.199 (0.179) C:93% T:NA	pCi/L		03/21/22 12:38	
EPA 9320	Radium-228	-0.213 ± 0.705 (1.70) C:60% T:68%	pCi/L		03/14/22 19:44	
Total Radium Calculation	Total Radium	0.583 ± 0.904 (1.88)	pCi/L		03/22/22 15:20	

# **REPORT OF LABORATORY ANALYSIS**



Project: YATES AMA-R6 RAD

Pace Project No.: 92587080

Lab Sample ID	Client Sample ID					
Method	Parameters —	Result	Units	Report Limit	Analyzed	Qualifiers
92587080009	PZ-51					
EPA 9315	Radium-226	0.193 ± 0.116 (0.173)	pCi/L		03/21/22 12:38	
EPA 9320	Radium-228	C:93% T:NA 0.771 ± 0.736 (1.50) C:60%	pCi/L		03/14/22 19:45	
Total Radium Calculation	Total Radium	T:73% 0.964 ± 0.852 (1.67)	pCi/L		03/22/22 15:20	
2587080010	YAMW-1					
EPA 9315	Radium-226	0.233 ± 0.120 (0.138)	pCi/L		03/21/22 12:38	
EPA 9320	Radium-228	C:89% T:NA -0.364 ± 0.681 (1.68) C:65%	pCi/L		03/14/22 19:42	
Total Radium Calculation	Total Radium	T:70% 0.233 ± 0.801 (1.82)	pCi/L		03/22/22 15:20	
2587080011	PZ-35					
EPA 9315	Radium-226	0.287 ± 0.180 (0.256) C:91% T:NA	pCi/L		03/21/22 12:38	
EPA 9320	Radium-228	0.966 ± 0.945 (1.93) C:58% T:71%	pCi/L		03/14/22 19:42	
Total Radium Calculation	Total Radium	1.25 ± 1.13 (2.19)	pCi/L		03/22/22 15:20	
2587080012	YAMW-4					
EPA 9315	Radium-226	0.0674 ± 0.0836 (0.170) C:84% T:NA	pCi/L		03/21/22 12:39	
EPA 9320	Radium-228	0.635 ± 0.627 (1.28) C:66% T:78%	pCi/L		03/14/22 19:42	
Total Radium Calculation	Total Radium	0.702 ± 0.711 (1.45)	pCi/L		03/22/22 15:20	

## **REPORT OF LABORATORY ANALYSIS**



Project: YATES AMA-R6 RAD

Pace Project No.: 92587080

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587080013	YGWC-23S					
EPA 9315	Radium-226	0.0552 ± 0.0696 (0.137)	pCi/L		03/21/22 12:39	
EPA 9320	Radium-228	C:79% T:NA 0.142 ± 0.492 (1.17) C:75%	pCi/L		03/15/22 12:07	
Total Radium Calculation	Total Radium	T:81% 0.197 ± 0.562 (1.31)	pCi/L		03/22/22 15:20	
92587080014	YGWC-38					
EPA 9315	Radium-226	0.150 ± 0.102 (0.152) C:89% T:NA	pCi/L		03/21/22 12:39	
EPA 9320	Radium-228	0.641 ± 0.476 (0.924) C:73% T:93%	pCi/L		03/15/22 12:07	
Total Radium Calculation	Total Radium	0.791 ± 0.578 (1.08)	pCi/L		03/22/22 15:20	
92587080015	YGWC-42					
EPA 9315	Radium-226	0.241 ± 0.126 (0.155) C:87% T:NA	pCi/L		03/21/22 12:39	
EPA 9320	Radium-228	0.0659 ± 0.434 (0.983) C:75% T:88%	pCi/L		03/15/22 12:09	
Total Radium Calculation	Total Radium	0.307 ± 0.560 (1.14)	pCi/L		03/22/22 15:20	
92587080016	YGWC-24SA					
EPA 9315	Radium-226	0.0181 ± 0.0599 (0.152)	pCi/L		03/21/22 12:39	
EPA 9320	Radium-228	C:89% T:NA 0.828 ± 0.513 (0.988) C:78% T:84%	pCi/L		03/15/22 12:09	
Total Radium Calculation	Total Radium	0.846 ± 0.573 (1.14)	pCi/L		03/22/22 15:20	

## **REPORT OF LABORATORY ANALYSIS**



Project: YATES AMA-R6 RAD

Pace Project No.: 92587080

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587080017	AMA-DUP-1					
EPA 9315	Radium-226	0.0380 ± 0.0672 (0.151)	pCi/L		03/21/22 12:39	
EPA 9320	Radium-228	C:94% T:NA -0.0252 ± 0.520 (1.19) C:74% T:81%	pCi/L		03/15/22 12:09	
Total Radium Calculation	Total Radium	0.0380 ± 0.587 (1.34)	pCi/L		03/22/22 15:20	
2587080018	YGWC-36A					
EPA 9315	Radium-226	0.110 ± 0.113 (0.226) C:82% T:NA	pCi/L		03/21/22 12:39	
EPA 9320	Radium-228	0.285 ± 0.511 (1.12) C:77% T:89%	pCi/L		03/15/22 15:08	
Total Radium Calculation	Total Radium	0.395 ± 0.624 (1.35)	pCi/L		03/22/22 15:20	
2587080019	YAMW-2					
EPA 9315	Radium-226	-0.00134 ± 0.0863 (0.237) C:97% T:NA	pCi/L		03/17/22 09:25	
EPA 9320	Radium-228	-0.135 ± 0.470 (1.12) C:75% T:85%	pCi/L		03/15/22 15:08	
Total Radium Calculation	Total Radium	0.000 ± 0.556 (1.36)	pCi/L		03/22/22 15:27	
2587080020	YAMW-3					
EPA 9315	Radium-226	0.609 ± 0.220 (0.222) C:103% T:NA	pCi/L		03/17/22 09:25	
EPA 9320	Radium-228	0.379 ± 0.508 (1.09) C:77% T:87%	pCi/L		03/15/22 15:09	
Total Radium Calculation	Total Radium	0.988 ± 0.728 (1.31)	pCi/L		03/22/22 15:27	

## **REPORT OF LABORATORY ANALYSIS**



Project: YATES AMA-R6 RAD

Pace Project No.: 92587080

Lab Sample ID	Client Sample ID						
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers	
92587080021	AMA-EB-2						
EPA 9315	Radium-226	-0.00805 ± 0.0688 (0.204)	pCi/L	03/17/22 09:25			
EPA 9320	Radium-228	C:97% T:NA 0.505 ± 0.551 (1.15) C:79%	pCi/L		03/15/22 15:09		
Total Radium Calculation	Total Radium	T:86% 0.505 ± 0.620 (1.35)	pCi/L		03/22/22 15:27		
92587080022	AMA-FB-1						
EPA 9315	Radium-226	0.0556 ± 0.100 (0.228) C:96% T:NA	pCi/L		03/17/22 09:25		
EPA 9320	Radium-228	0.847 ± 0.456 (0.828) C:78% T:86%	pCi/L		03/15/22 15:40		
Total Radium Calculation	Total Radium	0.903 ± 0.556 (1.06)	pCi/L		03/22/22 15:27		
92587080023	AMA-FB-2						
EPA 9315	Radium-226	0.00412 ± 0.0936 (0.251) C:95% T:NA	pCi/L		03/17/22 09:25		
EPA 9320	Radium-228	-0.303 ± 0.308 (0.782) C:78% T:86%	pCi/L		03/15/22 15:40		
Total Radium Calculation	Total Radium	0.00412 ± 0.402 (1.03)	pCi/L		03/22/22 15:27		
92587080024	PZ-37D						
EPA 9315	Radium-226	0.728 ± 0.228 (0.164)	pCi/L		03/08/22 08:28		
EPA 9320	Radium-228	C:96% T:NA 0.0872 ± 0.415 (0.945) C:85% T:88%	pCi/L		03/07/22 18:23		
Total Radium Calculation	Total Radium	0.815 ± 0.643 (1.11)	pCi/L		03/21/22 17:19		

## **REPORT OF LABORATORY ANALYSIS**



Project: YATES AMA-R6 RAD

Pace Project No.: 92587080

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587080025	PZ-52D					
EPA 9315	Radium-226	0.708 ± 0.235 (0.211) C:91% T:NA	pCi/L		03/08/22 08:28	
EPA 9320	Radium-228	0.807 ± 0.421 (0.710) C:88% T:89%	pCi/L		03/07/22 18:22	
Total Radium Calculation	Total Radium	1.52 ± 0.656 (0.921)	pCi/L		03/21/22 17:19	



Project: YATES AMA-R6 RAD

Pace Project No.: 92587080

Sample: YGWC-49 PWS:	Lab ID: 9258 Site ID:	<b>7080001</b> Collected: 02/08/22 18:00 Sample Type:	Received:	02/09/22 10:18	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.201 ± 0.151 (0.252) C:93% T:NA	pCi/L	02/28/22 07:44	13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	-0.0391 ± 0.363 (0.851) C:79% T:80%	pCi/L	02/25/22 15:02	2 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.201 ± 0.514 (1.10)	pCi/L	02/28/22 18:24	7440-14-4	



Project: YATES AMA-R6 RAD

Pace Project No.: 92587080

Sample: YGWC-41 PWS:	Lab ID: 9258 Site ID:	<b>7080002</b> Collected: 02/08/22 16:20 Sample Type:	Received:	02/09/22 10:18	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.0438 ± 0.104 (0.247) C:99% T:NA	pCi/L	02/28/22 07:44	4 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.550 ± 0.383 (0.742) C:82% T:85%	pCi/L	02/25/22 15:02	2 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.594 ± 0.487 (0.989)	pCi/L	02/28/22 18:24	4 7440-14-4	



Project: YATES AMA-R6 RAD

Pace Project No.: 92587080

Sample: AMA-DUP-2 PWS:	<b>Lab ID: 92587</b> ( Site ID:	080003 Collected: 02/08/22 00:00 Sample Type:	Received:	02/09/22 10:18	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	ervices - Greensburg				
Radium-226	EPA 9315	0.187 ± 0.143 (0.250) C:102% T:NA	pCi/L	02/28/22 07:44	13982-63-3	
	Pace Analytical S	ervices - Greensburg				
Radium-228	EPA 9320	-0.113 ± 0.387 (0.928) C:67% T:78%	pCi/L	02/25/22 15:02	2 15262-20-1	
	Pace Analytical S	ervices - Greensburg				
Total Radium	Total Radium Calculation	0.187 ± 0.530 (1.18)	pCi/L	02/28/22 18:24	7440-14-4	



Project: YATES AMA-R6 RAD

Pace Project No.: 92587080

Sample: YGWC-43 PWS:	Lab ID: 9258 Site ID:	<b>7080004</b> Collected: 02/08/22 10:20 Sample Type:	Received:	02/09/22 10:18	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	2.34 ± 0.506 (0.185) C:101% T:NA	pCi/L	02/28/22 07:4	5 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.771 ± 0.380 (0.655) C:84% T:85%	pCi/L	02/25/22 15:02	2 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	3.11 ± 0.886 (0.840)	pCi/L	02/28/22 18:24	4 7440-14-4	



Project: YATES AMA-R6 RAD

Pace Project No.: 92587080

Sample: AMA-EB-1 PWS:	Lab ID: 9258 Site ID:	<b>7080005</b> Collected: 02/08/22 18:36 Sample Type:	Received:	02/09/22 10:18	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.255 ± 0.151 (0.222) C:100% T:NA	pCi/L	02/28/22 07:4	5 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.400 ± 0.404 (0.841) C:85% T:88%	pCi/L	02/25/22 15:0	3 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.655 ± 0.555 (1.06)	pCi/L	02/28/22 18:2	4 7440-14-4	



Project: YATES AMA-R6 RAD

Pace Project No.: 92587080

Sample: YAMW-5 PWS:	Lab ID: 9258 Site ID:	<b>7080006</b> Collected: 02/10/22 11:30 Sample Type:	Received:	02/11/22 16:45	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.552 ± 0.189 (0.174) C:92% T:NA	pCi/L	03/21/22 12:32	2 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.698 ± 0.586 (1.17) C:65% T:83%	pCi/L	03/14/22 19:44	1 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	1.25 ± 0.775 (1.34)	pCi/L	03/22/22 15:20	7440-14-4	



Project: YATES AMA-R6 RAD

Pace Project No.: 92587080

Sample: PZ-37 PWS:	Lab ID: 9258 Site ID:	<b>7080007</b> Collected: 02/10/22 13:05 Sample Type:	Received:	02/11/22 16:45	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.430 ± 0.179 (0.231) C:94% T:NA	pCi/L	03/21/22 12:38	3 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.380 ± 0.569 (1.23) C:63% T:83%	pCi/L	03/14/22 19:44	1 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.810 ± 0.748 (1.46)	pCi/L	03/22/22 15:20	7440-14-4	



Project: YATES AMA-R6 RAD

Pace Project No.: 92587080

Sample: AMA-DUP-4 PWS:	Lab ID: 9258' Site ID:	<b>7080008</b> Collected: 02/10/22 00:00 Sample Type:	Received:	02/11/22 16:45	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.583 ± 0.199 (0.179) C:93% T:NA	pCi/L	03/21/22 12:38	3 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	-0.213 ± 0.705 (1.70) C:60% T:68%	pCi/L	03/14/22 19:44	1 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.583 ± 0.904 (1.88)	pCi/L	03/22/22 15:20	7440-14-4	



Project: YATES AMA-R6 RAD

Pace Project No.: 92587080

Sample: PZ-51 PWS:	Lab ID: 9258 Site ID:	<b>7080009</b> Collected: 02/10/22 18:10 Sample Type:	Received:	02/11/22 16:45	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.193 ± 0.116 (0.173) C:93% T:NA	pCi/L	03/21/22 12:38	3 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.771 ± 0.736 (1.50) C:60% T:73%	pCi/L	03/14/22 19:45	5 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.964 ± 0.852 (1.67)	pCi/L	03/22/22 15:20	7440-14-4	



Project: YATES AMA-R6 RAD

Pace Project No.: 92587080

Sample: YAMW-1 PWS:	Lab ID: 92587 Site ID:	<b>7080010</b> Collected: 02/10/22 11:55 Sample Type:	Received:	02/11/22 16:45	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.233 ± 0.120 (0.138) C:89% T:NA	pCi/L	03/21/22 12:38	3 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	-0.364 ± 0.681 (1.68) C:65% T:70%	pCi/L	03/14/22 19:42	2 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.233 ± 0.801 (1.82)	pCi/L	03/22/22 15:20	7440-14-4	



Project: YATES AMA-R6 RAD

Pace Project No.: 92587080

Sample: PZ-35 PWS:	Lab ID: 9258' Site ID:	<b>7080011</b> Collected: 02/10/22 14:37 Sample Type:	Received:	02/11/22 16:45	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.287 ± 0.180 (0.256) C:91% T:NA	pCi/L	03/21/22 12:38	3 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.966 ± 0.945 (1.93) C:58% T:71%	pCi/L	03/14/22 19:42	2 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	1.25 ± 1.13 (2.19)	pCi/L	03/22/22 15:20	7440-14-4	



Project: YATES AMA-R6 RAD

Pace Project No.: 92587080

Sample: YAMW-4 PWS:	<b>Lab ID:</b> 925870 Site ID:	80012 Collected: 02/10/22 12:00 Sample Type:	Received:	02/11/22 16:45	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Se	ervices - Greensburg				
Radium-226	EPA 9315	0.0674 ± 0.0836 (0.170) C:84% T:NA	pCi/L	03/21/22 12:39	13982-63-3	
	Pace Analytical Se	ervices - Greensburg				
Radium-228	EPA 9320	0.635 ± 0.627 (1.28) C:66% T:78%	pCi/L	03/14/22 19:42	2 15262-20-1	
	Pace Analytical Se	ervices - Greensburg				
Total Radium	Total Radium Calculation	0.702 ± 0.711 (1.45)	pCi/L	03/22/22 15:20	7440-14-4	



Project: YATES AMA-R6 RAD

Pace Project No.: 92587080

Sample: YGWC-23S PWS:	<b>Lab ID: 92587</b> 0 Site ID:	<b>080013</b> Collected: 02/10/22 15:10 Sample Type:	Received:	02/11/22 16:45	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	ervices - Greensburg				
Radium-226	EPA 9315	0.0552 ± 0.0696 (0.137) C:79% T:NA	pCi/L	03/21/22 12:39	9 13982-63-3	
	Pace Analytical S	ervices - Greensburg				
Radium-228	EPA 9320	0.142 ± 0.492 (1.17) C:75% T:81%	pCi/L	03/15/22 12:07	7 15262-20-1	
	Pace Analytical S	ervices - Greensburg				
Total Radium	Total Radium Calculation	0.197 ± 0.562 (1.31)	pCi/L	03/22/22 15:20	7440-14-4	



Project: YATES AMA-R6 RAD

Pace Project No.: 92587080

Sample: YGWC-38 PWS:	<b>Lab ID: 92587</b> Site ID:	<b>080014</b> Collected: 02/10/22 09:50 Sample Type:	Received:	02/11/22 16:45	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	Services - Greensburg				
Radium-226	EPA 9315	0.150 ± 0.102 (0.152) C:89% T:NA	pCi/L	03/21/22 12:39	9 13982-63-3	
	Pace Analytical S	Services - Greensburg				
Radium-228	EPA 9320	0.641 ± 0.476 (0.924) C:73% T:93%	pCi/L	03/15/22 12:07	7 15262-20-1	
	Pace Analytical S	Services - Greensburg				
Total Radium	Total Radium Calculation	0.791 ± 0.578 (1.08)	pCi/L	03/22/22 15:20	7440-14-4	



Project: YATES AMA-R6 RAD

Pace Project No.: 92587080

Sample: YGWC-42 PWS:	<b>Lab ID:</b> 9258708 Site ID:	80015 Collected: 02/10/22 16:35 Sample Type:	Received:	02/11/22 16:45	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Se	rvices - Greensburg				
Radium-226	EPA 9315	0.241 ± 0.126 (0.155) C:87% T:NA	pCi/L	03/21/22 12:39	13982-63-3	
	Pace Analytical Se	rvices - Greensburg				
Radium-228	EPA 9320	0.0659 ± 0.434 (0.983) C:75% T:88%	pCi/L	03/15/22 12:09	9 15262-20-1	
	Pace Analytical Se	rvices - Greensburg				
Total Radium	Total Radium Calculation	0.307 ± 0.560 (1.14)	pCi/L	03/22/22 15:20	7440-14-4	



Project: YATES AMA-R6 RAD

Pace Project No.: 92587080

Sample: YGWC-24SA PWS:	<b>Lab ID: 9258708</b> Site ID:	30016 Collected: 02/10/22 14:40 Sample Type:	Received:	02/11/22 16:45	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Se	rvices - Greensburg				
Radium-226	EPA 9315	0.0181 ± 0.0599 (0.152) C:89% T:NA	pCi/L	03/21/22 12:39	13982-63-3	
	Pace Analytical Se	rvices - Greensburg				
Radium-228	EPA 9320	0.828 ± 0.513 (0.988) C:78% T:84%	pCi/L	03/15/22 12:09	9 15262-20-1	
	Pace Analytical Se	rvices - Greensburg				
Total Radium	Total Radium Calculation	0.846 ± 0.573 (1.14)	pCi/L	03/22/22 15:20	7440-14-4	



Project: YATES AMA-R6 RAD

Pace Project No.: 92587080

Sample: AMA-DUP-1 PWS:	Lab ID: 9258 Site ID:	7080017 Collected: 02/10/22 00:00 Sample Type:	Received:	02/11/22 16:45	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.0380 ± 0.0672 (0.151) C:94% T:NA	pCi/L	03/21/22 12:39	9 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	-0.0252 ± 0.520 (1.19) C:74% T:81%	pCi/L	03/15/22 12:09	9 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.0380 ± 0.587 (1.34)	pCi/L	03/22/22 15:20	7440-14-4	



Project: YATES AMA-R6 RAD

Pace Project No.: 92587080

Sample: YGWC-36A PWS:	Lab ID: 9258 Site ID:	<b>7080018</b> Collected: 02/11/22 11:19 Sample Type:	Received:	02/11/22 16:45	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg			_	
Radium-226	EPA 9315	0.110 ± 0.113 (0.226) C:82% T:NA	pCi/L	03/21/22 12:39	13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.285 ± 0.511 (1.12) C:77% T:89%	pCi/L	03/15/22 15:08	3 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.395 ± 0.624 (1.35)	pCi/L	03/22/22 15:20	7440-14-4	



Project: YATES AMA-R6 RAD

Pace Project No.: 92587080

Sample: YAMW-2 PWS:	Lab ID: 9258 Site ID:	7080019 Collected: 02/10/22 09:45 Sample Type:	Received:	02/11/22 16:45	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	-0.00134 ± 0.0863 (0.237) C:97% T:NA	pCi/L	03/17/22 09:25	5 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	-0.135 ± 0.470 (1.12) C:75% T:85%	pCi/L	03/15/22 15:08	3 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	$0.000 \pm 0.556  (1.36)$	pCi/L	03/22/22 15:27	7 7440-14-4	



Project: YATES AMA-R6 RAD

Pace Project No.: 92587080

Sample: YAMW-3 PWS:	Lab ID: 9258 Site ID:	<b>7080020</b> Collected: 02/10/22 15:35 Sample Type:	Received:	02/11/22 16:45	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.609 ± 0.220 (0.222) C:103% T:NA	pCi/L	03/17/22 09:25	5 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.379 ± 0.508 (1.09) C:77% T:87%	pCi/L	03/15/22 15:09	9 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.988 ± 0.728 (1.31)	pCi/L	03/22/22 15:27	7 7440-14-4	



Project: YATES AMA-R6 RAD

Pace Project No.: 92587080

Sample: AMA-EB-2 PWS:	<b>Lab ID: 92587</b> Site ID:	<b>'080021</b> Collected: 02/10/22 12:46 Sample Type:	Received:	02/11/22 16:45	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	Services - Greensburg				
Radium-226	EPA 9315	-0.00805 ± 0.0688 (0.204) C:97% T:NA	pCi/L	03/17/22 09:25	5 13982-63-3	
	Pace Analytical S	Services - Greensburg				
Radium-228	EPA 9320	0.505 ± 0.551 (1.15) C:79% T:86%	pCi/L	03/15/22 15:09	9 15262-20-1	
	Pace Analytical S	Services - Greensburg				
Total Radium	Total Radium Calculation	0.505 ± 0.620 (1.35)	pCi/L	03/22/22 15:27	7 7440-14-4	



Project: YATES AMA-R6 RAD

Pace Project No.: 92587080

Sample: AMA-FB-1 PWS:	<b>Lab ID: 9258708</b> Site ID:	Collected: 02/10/22 15:02 Sample Type:	Received:	02/11/22 16:45	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	vices - Greensburg				
Radium-226	EPA 9315	0.0556 ± 0.100 (0.228) C:96% T:NA	pCi/L	03/17/22 09:25	5 13982-63-3	
	Pace Analytical Ser	vices - Greensburg				
Radium-228	EPA 9320	0.847 ± 0.456 (0.828) C:78% T:86%	pCi/L	03/15/22 15:40	15262-20-1	
	Pace Analytical Ser	vices - Greensburg				
Total Radium	Total Radium Calculation	0.903 ± 0.556 (1.06)	pCi/L	03/22/22 15:27	7 7440-14-4	



Project: YATES AMA-R6 RAD

Pace Project No.: 92587080

Sample: AMA-FB-2 PWS:	Lab ID: 9258' Site ID:	<b>7080023</b> Collected: 02/10/22 16:00 Sample Type:	Received:	02/11/22 16:45	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.00412 ± 0.0936 (0.251) C:95% T:NA	pCi/L	03/17/22 09:2	5 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	-0.303 ± 0.308 (0.782) C:78% T:86%	pCi/L	03/15/22 15:40	) 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.00412 ± 0.402 (1.03)	pCi/L	03/22/22 15:27	7 7440-14-4	



Project: YATES AMA-R6 RAD

Pace Project No.: 92587080

Sample: PZ-37D PWS:	Lab ID: 9258 Site ID:	<b>7080024</b> Collected: 02/11/22 16:35 Sample Type:	Received:	02/14/22 13:25	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.728 ± 0.228 (0.164) C:96% T:NA	pCi/L	03/08/22 08:28	3 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.0872 ± 0.415 (0.945) C:85% T:88%	pCi/L	03/07/22 18:23	3 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.815 ± 0.643 (1.11)	pCi/L	03/21/22 17:19	9 7440-14-4	



Project: YATES AMA-R6 RAD

Pace Project No.: 92587080

Sample: PZ-52D PWS:	<b>Lab ID: 9258708</b> Site ID:	0025 Collected: 02/11/22 14:00 Sample Type:	Received:	02/14/22 13:25	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	vices - Greensburg				
Radium-226	EPA 9315	0.708 ± 0.235 (0.211) C:91% T:NA	pCi/L	03/08/22 08:28	3 13982-63-3	
	Pace Analytical Ser	vices - Greensburg				
Radium-228	EPA 9320	0.807 ± 0.421 (0.710) C:88% T:89%	pCi/L	03/07/22 18:22	2 15262-20-1	
	Pace Analytical Ser	vices - Greensburg				
Total Radium	Total Radium Calculation	1.52 ± 0.656 (0.921)	pCi/L	03/21/22 17:19	9 7440-14-4	



Project: YATES AMA-R6 RAD

Pace Project No.: 92587080

QC Batch: 488843 Analysis Method: EPA 9315

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

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92587080019, 92587080020, 92587080021, 92587080022, 92587080023

METHOD BLANK: 2364144 Matrix: Water

Associated Lab Samples: 92587080019, 92587080020, 92587080021, 92587080022, 92587080023

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

 Radium-226
 0.00836 ± 0.0708 (0.195) C:93% T:NA
 pCi/L
 03/17/22 09:25

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: YATES AMA-R6 RAD

Pace Project No.: 92587080

QC Batch: 487660 Analysis Method: EPA 9315

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

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92587080006, 92587080007, 92587080008, 92587080009, 92587080010, 92587080011, 92587080012,

92587080013, 92587080014, 92587080015, 92587080016, 92587080017, 92587080018

METHOD BLANK: 2358737 Matrix: Water

Associated Lab Samples: 92587080006, 92587080007, 92587080008, 92587080009, 92587080010, 92587080011, 92587080012,

92587080013, 92587080014, 92587080015, 92587080016, 92587080017, 92587080018

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

 Radium-226
 0.0164 ± 0.0604 (0.155) C:93% T:NA
 pCi/L
 03/21/22 12:32

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



Project: YATES AMA-R6 RAD

Pace Project No.: 92587080

QC Batch: 484773 Analysis Method: EPA 9315

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

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92587080001, 92587080002, 92587080003, 92587080004, 92587080005

METHOD BLANK: 2344489 Matrix: Water

Associated Lab Samples: 92587080001, 92587080002, 92587080003, 92587080004, 92587080005

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

 Radium-226
 0.0146 ± 0.0739 (0.197) C:93% T:NA
 pCi/L
 02/28/22 08:20

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: YATES AMA-R6 RAD

Pace Project No.: 92587080

QC Batch: 488360 Analysis Method: EPA 9320

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

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92587080013, 92587080014, 92587080015, 92587080016, 92587080017, 92587080018, 92587080019,

92587080020, 92587080021, 92587080022, 92587080023

METHOD BLANK: 2362221 Matrix: Water

Associated Lab Samples: 92587080013, 92587080014, 92587080015, 92587080016, 92587080017, 92587080018, 92587080019,

92587080020, 92587080021, 92587080022, 92587080023

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

 Radium-228
 0.179 ± 0.381 (0.881) C:76% T:93%
 pCi/L
 03/15/22 12:07

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: YATES AMA-R6 RAD

Pace Project No.: 92587080

QC Batch: 488359 Analysis Method: EPA 9320

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

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92587080006, 92587080007, 92587080008, 92587080009, 92587080010, 92587080011, 92587080012

METHOD BLANK: 2362220 Matrix: Water

Associated Lab Samples: 92587080006, 92587080007, 92587080008, 92587080019, 92587080010, 92587080011, 92587080012

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

 Radium-228
 -0.0558 ± 0.266 (0.648) C:66% T:95%
 pCi/L
 03/14/22 16:43

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: YATES AMA-R6 RAD

Pace Project No.: 92587080

QC Batch: 486611

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

9315 Total Radium Laboratory: Pace Analytical Services - Greensburg

EPA 9315

Associated Lab Samples: 92587080024, 92587080025

METHOD BLANK: 2353259 Matrix: Water

Associated Lab Samples: 92587080024, 92587080025

Act ± Unc (MDC) Carr Trac Units Analyzed Qualifiers Parameter Radium-226 -0.0325 ± 0.0552 (0.191) C:101% T:NA pCi/L 03/08/22 08:21

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



Project: YATES AMA-R6 RAD

Pace Project No.: 92587080

QC Batch: 484772 Analysis Method: EPA 9320

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

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92587080001, 92587080002, 92587080003, 92587080004, 92587080005

METHOD BLANK: 2344487 Matrix: Water

Associated Lab Samples: 92587080001, 92587080002, 92587080003, 92587080004, 92587080005

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

 Radium-228
 -0.0606 ± 0.318 (0.753) C:83% T:82%
 pCi/L
 02/25/22 15:04

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: YATES AMA-R6 RAD

Pace Project No.: 92587080

QC Batch: 486658 Analysis Method: EPA 9320

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

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92587080024, 92587080025

METHOD BLANK: 2353494 Matrix: Water

Associated Lab Samples: 92587080024, 92587080025

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

 Radium-228
 0.240 ± 0.292 (0.616) C:84% T:82%
 pCi/L
 03/07/22 15:13

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



### **QUALIFIERS**

Project: YATES AMA-R6 RAD

Pace Project No.: 92587080

### **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: 04/12/2022 01:39 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: YATES AMA-R6 RAD

Pace Project No.: 92587080

Date: 04/12/2022 01:39 PM

ab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytic Batch
2587080001	YGWC-49	EPA 9315	484773		
2587080002	YGWC-41	EPA 9315	484773		
2587080003	AMA-DUP-2	EPA 9315	484773		
2587080004	YGWC-43	EPA 9315	484773		
2587080005	AMA-EB-1	EPA 9315	484773		
2587080006	YAMW-5	EPA 9315	487660		
2587080007	PZ-37	EPA 9315	487660		
587080008	AMA-DUP-4	EPA 9315	487660		
587080009	PZ-51	EPA 9315	487660		
2587080010	YAMW-1	EPA 9315	487660		
2587080011	PZ-35	EPA 9315	487660		
587080012	YAMW-4	EPA 9315	487660		
587080013	YGWC-23S	EPA 9315	487660		
2587080014	YGWC-38	EPA 9315	487660		
2587080015	YGWC-42	EPA 9315	487660		
2587080016	YGWC-24SA	EPA 9315	487660		
587080017	AMA-DUP-1	EPA 9315	487660		
587080018	YGWC-36A	EPA 9315	487660		
587080019	YAMW-2	EPA 9315	488843		
587080020	YAMW-3	EPA 9315	488843		
587080021	AMA-EB-2	EPA 9315	488843		
587080022	AMA-FB-1	EPA 9315	488843		
587080023	AMA-FB-2	EPA 9315	488843		
2587080024	PZ-37D	EPA 9315	486611		
2587080025	PZ-52D	EPA 9315	486611		
2587080001	YGWC-49	EPA 9320	484772		
2587080002	YGWC-41	EPA 9320	484772		
2587080003	AMA-DUP-2	EPA 9320	484772		
2587080004	YGWC-43	EPA 9320	484772		
587080005	AMA-EB-1	EPA 9320	484772		
2587080006	YAMW-5	EPA 9320	488359		
2587080007	PZ-37	EPA 9320	488359		
2587080008	AMA-DUP-4	EPA 9320	488359		
2587080009	PZ-51	EPA 9320	488359		
2587080010	YAMW-1	EPA 9320	488359		
2587080011	PZ-35	EPA 9320	488359		
2587080012	YAMW-4	EPA 9320	488359		
587080013	YGWC-23S	EPA 9320	488360		
587080014	YGWC-38	EPA 9320	488360		
2587080015	YGWC-42	EPA 9320	488360		
2587080016	YGWC-24SA	EPA 9320	488360		
587080017	AMA-DUP-1	EPA 9320	488360		
587080018	YGWC-36A	EPA 9320	488360		
587080019	YAMW-2	EPA 9320	488360		
2587080020	YAMW-3	EPA 9320	488360		
2587080021	AMA-EB-2	EPA 9320	488360		



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

Project: YATES AMA-R6 RAD

Pace Project No.: 92587080

Date: 04/12/2022 01:39 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587080022	AMA-FB-1	EPA 9320	488360		
92587080023	AMA-FB-2	EPA 9320	488360		
92587080024	PZ-37D	EPA 9320	486658		
92587080025	PZ-52D	EPA 9320	486658		
92587080001	YGWC-49	Total Radium Calculation	487027		
92587080002	YGWC-41	Total Radium Calculation	487027		
92587080003	AMA-DUP-2	Total Radium Calculation	487027		
92587080004	YGWC-43	Total Radium Calculation	487027		
92587080005	AMA-EB-1	Total Radium Calculation	487027		
92587080006	YAMW-5	Total Radium Calculation	492139		
92587080007	PZ-37	Total Radium Calculation	492139		
2587080008	AMA-DUP-4	Total Radium Calculation	492139		
2587080009	PZ-51	Total Radium Calculation	492139		
2587080010	YAMW-1	Total Radium Calculation	492139		
92587080011	PZ-35	Total Radium Calculation	492139		
92587080012	YAMW-4	Total Radium Calculation	492139		
92587080013	YGWC-23S	Total Radium Calculation	492139		
92587080014	YGWC-38	Total Radium Calculation	492139		
92587080015	YGWC-42	Total Radium Calculation	492139		
92587080016	YGWC-24SA	Total Radium Calculation	492139		
92587080017	AMA-DUP-1	Total Radium Calculation	492139		
92587080018	YGWC-36A	Total Radium Calculation	492139		
92587080019	YAMW-2	Total Radium Calculation	492151		
92587080020	YAMW-3	Total Radium Calculation	492151		
2587080021	AMA-EB-2	Total Radium Calculation	492151		
2587080022	AMA-FB-1	Total Radium Calculation	492151		
92587080023	AMA-FB-2	Total Radium Calculation	492151		
92587080024	PZ-37D	Total Radium Calculation	491869		
92587080025	PZ-52D	Total Radium Calculation	491869		

# Pace Analytical

## Document Name: Sample Condition Upon Receipt (SCUR)

Document No.: F-CAR-C5-033-Rev.08 Document Revised: November 15, 2021

Page 1 of 2 Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:  Asheville Eden Greenwood	Huntersville Ralei	gh Mechanicsville Atlanta Kernersville
		WO#: 92587090
Sample Condition Client Name: Upon Receipt	0	Project #:
Courier: Fed Ex UPS  Commercial Pace	USPS CI	ent 92587090
Custody Seal Present? Yes No Seals	Intact? Yes No	Date/Initials Person Examining Contents: 2/9/22
Packing Material: Bubble Wrap Bu	bble Bags TNone C	Other Biological Tissue Frozen
Thermometer:	Ðwet □	□Yes □No □N/A Blue □None
Correction Factor	Type of Ice:	
Cooler Temp: Add/Subtract (*	0 10,2	Temp should be above freezing to 6°C  Samples out of temp criteria. Samples on ice, cooling process has begun
Cooler Temp Corrected (°C):  USDA Regulated Soil ( \sum N/A, water sample)  Did samples originate in a quarantine zone within the Uni		aps)? Did samples originate from a foreign source (internationally,
Yes No		including Hawaii and Puerto Rico)?
	☐Yes ☐No ☐N/A	1,
Chain of Custody Present?		2.
Samples Arrived within Hold Time?	□¥65 □No □N/A □ □Yes ÆÑo □N/A	3.
Short Hold Time Analysis (<72 hr.)?  Rush Turn Around Time Requested?	□Yes ☑No □N/A	4.
		5.
Sufficient Volume?	∀es □no □n/A	6.
Correct Containers Used? -Pace Containers Used?	☐YES □NO □N/A	·
Containers Intact?	□¥ES □NO □N/A	7.
Dissolved analysis: Samples Field Filtered?	□Yes □No □N/A	8.
Sample Labels Match COC?	□Ves □No □N/A	9.
	/	
-Includes Date/Time/ID/Analysis Matrix:	<u> </u>	
Headspace in VOA Vials (>5-6mm)?	Yes No MA	10.
Trip Blank Present?	Yes No NA	11.
Trip Blank Custody Seals Present?	□Yes □No □N/A	
COMMENTS/SAMPLE DISCREPANCY		Field Data Required? ☐Yes ☐No
		Lot ID of split containers:
CLIENT NOTIFICATION/RESOLUTION		
Person contacted:	Date/	ime:
Project Manager SCURF Review:		
Project Manager SRF Review:		Date:

# Pace Analytical

### Document Name: Sample Condition Upon Receipt (SCUR)

Document No.: F-CAR-CS-033-Rev.08 Document Revised: November 15, 2021 Page 2 of 2

> Issuing Authority: Pace Carolinas Quality Office

\*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, ILHg

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

Project # WO#: 925870

PM: NMG

Due Date: 02/23/22

CLIENT: GA-GA Power

ltem#	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)	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-)	AG15-1 liter Amber H2SO4 (pH < 2)	AG35-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 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)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (3 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SPZT-250 mL Sterile Plastic (N/A – lab)	SOIN SOIN	BP3A-250 mL Plastic (NH2)2504 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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			ljustment Log for Pres			Lot #
ample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	LOCA
				**		

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

		App IV: Berylliun Lithium 7040A:	Ago ≡	Anions		12	1	ä	9	8	7	6	5	4	3	2		ITEM#			Request	Phone:	Email To:	Address	Company.	Required
		App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beyllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Ll), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	App III Metals: Boron 6020B, Ca 6010D	Anions Suite 300.0 (Ct. F. Suifate)	ADDITIONAL COMMENTS	YAMW-3	YAMW-2	NGWC 13	YGWC 42	AMA-DUP-2	YGWC-41	YGWC-98	YGWC-49	XCMC-30A	AMA-BUP-1	YGWG-245A	Y6WC-Z3S	SAMPLE ID  SAMPLE ID  SoftSad  One Character per box.  (A-Z, 0-91, -)  Sample ids must be unique  Character per box.  These  These  These	MATRIX		Requested Due Date:	Fax	P	Atlanta, GA	y GA Power	Section A Required Client Information:
		a), ad (P-b).	1	M	2													Water WW ARR			Project Number:	Project Name:	Purchase Ord	b		Section B Required Project Information:
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			App IV: Beryllium Lithium 7040A:	App III a	Anions :		12	3	10	9	8	7	6	5	4	3	2	10	ITEM#			request	Phone:	Email To:		Address:	Require	Section A
			App IV: Metats 6020B: Antimony (Sb), Arsenic (As), Benium (Be), Berylium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Lj), Molyodenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	App III Metals: Boron 8020B, Ca 6010D	Anions Suite 300.0 (Cl, F, Sulfate)	ADDITIONAL COMMENTS	XAMW-3	YAMW-2	YGWC-43	YOMC4Z	AMA-BUP-2	ACM CAL	XCW0-38	XOWC19	XGWC-36A	AMA BUP-1	XGWC-249A	Y6WC 238	SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample ids must be unique			requested Due Date:	Fax		1	Atlanta GA	Ι¥	>
			Co). Lead (Pb),	K	2														Weber Water WW Product P P P P P P P P P P P P P P P P P P P			Project Number:	Project Name:	Purchase Order #:	copj is.	Report To:	Required Project Information:	Section B
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SIGNATURE of SAMPLER:	PRINT Name of SAMPLER:	NAME			/Arcadis	S.	1	ı	1	1	ı	ı		1	ı	ı	1	1	DATE I	CTED			6					CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be complete
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# Pace Analytical\*

## Document Name:

## Sample Condition Upon Receipt (SCUR)

Document No.: F-CAR-CS-033-Rev.08

Document Revised: November 15, 2021

Page 1 of 2

Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples: Asheville Eden Greenwood [	Huntersville [	Raleig	gh Mechanicsville Atlanta Kernersville
Courier:  Commercial  Custody Seal Present?  Client Name:  Fed Ex  UPS  Page  No Se	S USPS Other:	Clie	
Packing Material: Bubble Wrap	Bubble Bags No	10 m	ther Biological Tissue Frozen?  Yes No No
R Gun ID:	Type of Ice:	✓Wet 🔲 B	Blue None
Cooler Temp:  Cooler Temp Corrected (°C):  USDA Regulated Soil ( \subseteq N/A, water sample)	(°C)		Temp should be above freezing to 6°C  Samples out of temp criteria. Samples on ice, cooling process has begun
Did samples originate in a quarantine zone within the U	Jnited States: CA, NY, or	SC (check ma	aps)? Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?   Yes No
			Comments/Discrepancy:
Chain of Custody Present?	Yes 🗌 No	□N/A	1.
Samples Arrived within Hold Time?	₽Yes □No	□N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐Yes ☐No		3.
Rush Turn Around Time Requested?	□Yes ☑¶o		4.
Sufficient Volume?	☐Yes ☐No	□N/A	5. MISSING 2 YAMW-4 2/10/22 01
Correct Containers Used? -Pace Containers Used?	₽Yes □No ₽Yes □No		6.
Containers Intact?	√Yes □No	_□N/A	7.
Dissolved analysis: Samples Field Filtered?	☐Yes ☐No	₽Ñ/A	8,
Sample Labels Match COC?	<b>☑</b> Yes <b>□</b> No	□N/A	9.
-includes Date/Time/ID/Analysis Matrix:	M		
Headspace in VOA Vials (>5-6mm)?	Yes □No		10.
Trip Blank Present?	□Yes □No	4	11.
Trip Blank Custody Seals Present?  COMMENTS/SAMPLE DISCREPANCY	YesNo	<b>□</b> KN/A	Field Data Required? ☐Yes ☐No
			Lot ID of split containers:
CLIENT NOTIFICATION/RESOLUTION			
Person contacted:		Date/Tii	ime:
Project Manager SCURF Review:			Date:
Project Manager SRF Review:			Date:

App III Metals: Boron 6020B, Ca 6010D App IV: Metals 6020B: Antimony (Sb), Al App IV: Metals 6020B: Antimony (Cd), Chromium (Be), Cadmium (Cd), Chromium	uite 30	200		1 0	9	8	7	6	Ch	4	ω	2		ITEM#	L		Phone:	Email To:	Nodi ess.	Company:	퇕	
App III Metals: Boron 6020B, Ca 6010D  App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Benyilium (Cd), Chromium (Ch), Cobalt (Co), Lead (Pb), Cartinum (Ch), Cobalt (Co), Lead (Pb), Cartinum (Ch), Cobalt (Co), Lead (Pb), Cartinum (Ch), Cobalt (Co), Lead (Pb), Cartinum (Ch), Cobalt (Co), Lead (Pb), Cartinum (Ch), Cartinu	Anions Suite 300.0 (Cl. F. Sulfate)	ADDITIONAL COMMENTS			PZ 35	YAMW-1	P2-52B	PZ-51	PZ-37B	AMA-DUP-4	PZ-37	YAMW-5	YAMW-4	MATRIX Chalang Water Water  SAMPLE ID Sample Ids must be unique  Matter  Matter  Water  Matter  Cother  These		Requested Due Date:	Fax	×		GA Power	l≌	
(Pb), Kholil Cavar	al All	RELINQUISHED BY / AFFILIATION			Wi G	WT G	WT G	MI 62/1/22 18	W 1 0	WT 02 10 72 -	MI 02/1025 120	W1 6	MI 6 210 22 1130	MATRIX CODE (see valid codes to left)  SAMPLE TYPE (G=GRAB C=COMP)  OATI		Project Number:	Project Name: Plant Yates AMA-R6	Purchase Order #:	Copy to. Alcadis Collacts	Report To: SCS Contacts	Ιž	o control of the cont
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	m (Ba), )), Lead (Pb),	,		R													MATRIX CODE Orisiking Water Water Wife		Project Number:	Project Name:	Purchase Order #:		Copy To:	Report To: SCS Contacts	Section B	
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			App IV: N Beryllium Lithium (L 7040A: M	Арр III М	Anions St	1	12	11	10		00	7	6 -	C)1	4	3	2	110	ITEM#			Request	Phone:	Email To:		Company:	Require	Section A
			App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Ba), Cadmium (Cd), Chonnium (Cr), Cobalt (Co), Lead (Pb), Lithium (Ll), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	App III Metals: Boron 6020B, Ca 6010D	Anions Suite 300.0 (Cl. F. Sulfate)	ADDITIONAL COMMENTS				PZ-95	YAMW-1	PZ-52U	P2-61	PZ-97D	AMA DUP-4	PZ-97	YAMW-6	YAMW-4	SAMPLE ID One Character per box. (A-Z, 0-9 I, -) Sample Ids must be unique			Requested Due Date:	Fax		1	y GA Power	I₽	•
			n (Ba), ), Lead (Pb),		_	<b>阿拉斯斯斯</b>													Umhany Water UW Water WWW Water WWW Product P Suffold St. Oil William W WP Ar Ar Offer Tissue TS	MATRIX CO		Project Number.	Project Name:	Purchase Order #:	1	Report To:	Required Project Information:	S P P P P P P P P P P P P P P P P P P P
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			Berylkum (Be), Cadmium (Cd), Chromium (Cr) Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	App III Metals: Boron 6020B, Ca 6010D App IV: Metals 6020B: Antimony (Sb), A	Anlons Suite 300.0 (Cl, F, Sulfate)	ADDITIONAL COMMENTS	YANTOV-3	YAMW-2	YGWC 43	YGWC-42	AMA-DUP-2	XOWC-41	¥6₩C-38	XGWC-49	YOWC-36A	AMA-DUP-1	YGWC-24SA	YGWC-23S	SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample lds must be unique	Requested Due Date:		0.			y: GA Power	Section A Required Client Information:
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		App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Banium (Ba), Beynlium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Ll), Molyodenum (Mo), Selenium (Se) 7040A: Mercury (Ha)	App III Metals: Boron 6020B, Ca 6010D	Anions Suite 300.0 [Cl, F, Sulfate)	ADDITIONAL COMMENTS	YAMIN-3	YAMW-2	XGMC_43	YOW6 42-	AMA-DUP-2	<b>∀GWC</b> -≄1	AGMC-38	YGWC49~	YGWC-36A	AMA-BUELL.	YGWC-24SA	YGWC-238	SAMPLE ID  One Character per box.  (A-Z, 0-91,-)  Sample ids must be unique		Requested Due Date:	Fax	95		Allanta CA	I₩	
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# Georgia Power Co. – Plant Yates

# **Data Review Report**

Radium Analyses

SDG #92587081

Analyses Performed By:

Pace Analytical Services - Greensburg, Pennsylvania

Report #45262R Review Level: Tier II Project: 30052922.00004

## **Summary**

This Data Review Report summarizes the review of Sample Delivery Group (SDG) #92587081 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		Analysi	S
Sample ID	Lab ID	Matrix	Collection Date	Sample	RAD	MET	GEN CHEM
YGWA-39	92587081001	Water	2/8/2022		Х		
YGWA-40	92587081002	Water	2/8/2022		Х		
YGWA-47	92587081003	Water	2/8/2022		Х		
GWA-2	92587081004	Water	2/8/2022		Х		
UP-DUP-1	92587081005	Water	2/8/2022	GWA-2	Х		
YGWA-1I	92587081006	Water	2/9/2022		Х		
YGWA-1D	92587081007	Water	2/9/2022		Х		
YGWA-2I	92587081008	Water	2/9/2022		Х		
YGWA-3I	92587081009	Water	2/9/2022		Х		
YGWA-3D	92587081010	Water	2/9/2022		Х		
UP-EB-1	92587081011	Water	2/9/2022		X		
UP-FB-1	92587081012	Water	2/9/2022		Х		
YGWA-17S	92587081013	Water	2/9/2022		X		
YGWA-18S	92587081014	Water	2/9/2022		Х		
YGWA-18I	92587081015	Water	2/9/2022		Х		
YGWA-20S	92587081016	Water	2/9/2022		X		
YGWA-21I	92587081017	Water	2/9/2022		X		
YGWA-5I	92587081018	Water	2/10/2022		X		
UP-DUP-3	92587081019	Water	2/10/2022	YGWA-5I	X		

## Data Review Report

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YGWA-14S	92587081020	Water	2/10/2022		Х		
UP-DUP-2	92587081021	Water	2/10/2022	YGWA-14S	Х		
YGWA-30I	92587081022	Water	2/11/2022		Х		
YGWA-4I	92587081023	Water	2/11/2022		Х		
YGWA-5D	92587081024	Water	2/10/2022		Х		
UP-EB-2	92587081025	Water	2/10/2022		Х		
UP-FB-2	92587081026	Water	2/10/2022		Х		

# **Analytical Data Package Documentation**

The table below evaluates the data package completeness.

Reported		Performance Acceptable		Not Required
No	Yes	No	Yes	Required
	X		Х	
	Х		Х	
	Х		Х	
	Х		Х	
	Х		Х	
	Х		Х	
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		No Yes  X  X  X  X  X  X  X  X  X  X  X  X  X	Reported Acce No Yes No  X  X  X  X  X  X  X  X  X  X  X  X  X	No         Yes         No         Yes           X         X         X           X         X         X           X         X         X           X         X         X           X         X         X           X         X         X           X         X         X           X         X         X           X         X         X           X         X         X           X         X         X           X         X         X

Note:

QA = quality assurance

## **Inorganic Analysis Introduction**

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 9315 and 9320. 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.

### **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 (MCD).

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-228, Radium-226, and total Radium were detected in the QA blanks, however, the activities were measured as less than the uncertainty and MDC or between the uncertainty and MDC as described above. 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:

$$Z_{\text{MS}} = \frac{\mathbf{x} - \mathbf{x}_0 - \mathbf{c}}{\sqrt{\mathbf{u}^2(\mathbf{x}) + \mathbf{u}^2(\mathbf{x}_0) + \mathbf{u}^2(\mathbf{c})}}$$

#### 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  $\pm 3$  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 YGWA-39 in association with SW-846 9315 analysis exhibited acceptable difference between the results.

### 4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. 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	0.151 ± 0.105	0.138 ± 0.115	
GWA-2 / UP-DUP-1	Radium-228	0.311 ± 0.281	0.617 ± 0.346	AC
	Total Radium	0.462 ± 0.386	0.755 ± 0.461	
	Radium-226	0.0387 ± 0.0686	0.183 ± 0.111	
YGWA-5I / UP-DUP-3	Radium-228	0.336 ± 0.397	-0.150 ± 0.507	AC
	Total Radium	0.375 ± 0.466	0.183 ± 0.618	
	Radium-226	-0.0197 ± 0.0632	0.0406 ± 0.0923	
YGWA-14S / UP-DUP-2	Radium-228	-0.199 ± 0.449	-0.195 ± 0.313	AC
	Total Radium	0.000 ± 0.512	0.0406 ± 0.405	

#### Note:

AC = Acceptable

The differences in the results between the parent sample GWA-2 and field duplicate sample UP-DUP-1 were acceptable. It was noted that the Radium-226, Radium-228, and total Radium results in these samples are considered not detected based on the criteria discussed in Section 7.

The differences in the results between the parent sample YGWA-5I and field duplicate sample UP-DUP-3 were acceptable. It was noted that the Radium-226, Radium-228, and total Radium results in these samples are considered not detected based on the criteria discussed in Section 7.

The differences in the results between the parent sample YGWA-14S and field duplicate sample UP-DUP-2 were acceptable. It was noted that the Radium-226, Radium-228, and total Radium results in these samples are considered not detected based on the criteria discussed in Section 7.

#### 5. Tracer or Carrier

Tracers and carriers are used in radiological separation methods to provide evaluation of chemical separation. Chemical yield is evaluated through the recovery of chemical species spiked into samples. Yield is evaluated radiometrically with a tracer and gravimetrically with a carrier. A control limit of 30% to 110% is applied to each sample spiked with either a carrier and/or a tracer.

The tracer and carrier analyses exhibited recoveries within the control limits.

# 6. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS/LCSD analysis must exhibit a percent recovery

between the control limits of 60% to 135%. In the event the recovery is outside of this limit, a numerical indicator to make assessments is calculated, with a limit of +/- 3 sigma.

The numerical performance indicator for a laboratory control sample is calculated by:

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

Where:

x = Analytical result of the LCS

c = Known concentration of the LCS

 $u^2(x)$  = combined standard uncertainty of the result squared.

 $u^2(c)$  = combined standard uncertainty of the LCS value squared.

LCS performance is acceptable when the numerical performance indicator calculation yields a value between ±3 sigma. Warning limits have been established as ±2 sigma.

The LCS/LCSD analysis exhibited recoveries within the control limits.

### 7. Isotope Identification

For sample results to be considered "non-detect", evaluate data based on the following two criteria. <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:

- YGWA-39, YGWA-1D, and YGWA-4I Radium-228
- GWA-2, UP-DUP-1, YGWA-18S, YGWA-18I, YGWA-20S, YGWA-5I, YGWA-14S, UP-DUP-2, and YGWA-30I
   Radium-226, Radium-228, and total Radium
- YGWA-40, YGWA-47, YGWA-11, YGWA-21, YGWA-17S, and UP-DUP-3 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	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)		Х		Х	
Field Duplicate (RPD)		X		Х	

#### Notes:

%R Percent recovery

RPD Relative percent difference

VALIDATION PERFORMED BY: Jennifer Singer

SIGNATURE:

DATE: April 26, 2022

Sknrije Osinger

PEER REVIEW: Dennis Capria

DATE: April 27, 2022

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Section A	Section B		Section C		
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Address: Atlanta, GA	Copy To: Arcadis Conta	acts	Company Name:		
Email To:			Address:	i se yee Hille o Carlana da in a	
Phone: Fax	Purchase Order #: Project Name: Plant Yets		Pace Quote:		Regulatory Agency
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			Pace Profile #: 10840		Georgia
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The Commission was to sent Other	or g E	SAMPE TIME DATE TIME	W of CONTAR Unpreserved H2SO4 HCI HCI NaCH Ve2S2O3 Wethenol Other	M + 00 88 99	
E Sample sus must be diagre Touce	EF 4	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	# or co Unpress H2SO4 HN03 HCI NaOH Na2S2C Methanc	SS (255 OF)	
NAME OF THE PARTY	3 5 DATE	TIME DATE TIME	Univesent Univesent H2SO4 HCI NaOH NaCH Methanol Other	App III/IV Metats Ci. F. SO4 TDS (2540C) RAD 9315/9320	Residual Chlorine (Y/N)
12 YGWA-47	wi G			xxxx	
2 GWA-2	WI G				<u> </u>
3 UP DUC 1				XXX	pH:
YGWA 4				<del>                                     </del>	++
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YGWA-58	wr g				+++++++++++++++++++++++++++++++++++++++
8 YGWA-17S	WT G 2/9/2	1070	5 2 3	X X X X	the period of th
9 UGWA-18S	WT G 2/9/2		5 2 3	X X X X	pH: 5.53
10 YGWA-18I	WT G 2/9/2		5 2 3	x x x x x	pH: 5.28
11 YGWA-20S	WT G 2/98		<del>╏╶╏╶╏┈╏┈╏┈╏┈╏</del> ┈╏		pt: 5,98
12 YGWA-211	WT G 2/9/2		<del>▊</del> ▘ <del>▐</del> ▘▐▘ <del>▐</del> ▘▄▋▃▋	x x x x	pH: 5,91
ADDITIONAL COMPENSE	anunda janangeruse salam urunge majara		5 2 3	XXXX	pH: (0-84
	RELINQUISHED BY	AFFILIATION DATE	TIME ACCEPTED BY A	THLIATION DATE	TIME SAMPLE CONDITIONS
Anions Suite 300.0 (Cl. F. Sulfate)	10 velou	2/0/22	1435 000-14	codis 2/10/21	435
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B; Zn, Ag, Ni, V	9-1	Arcad (52/10/22)	(700)	7.	
74.7 VIL 602.0 D. 201, AG, NE, V		www.jajwa-	wo mil	2/10/1	700
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cd), Cobalt (Co), Lead (	Pb).				
Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)					
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29 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately. Section A Section B Section C Required Client Information: Regulred Project Information: invoice information: Company: **GA Power** Report To: SCS Contacts Astrolion: Southern Co. Address: Allanta, GA Copy To: Arcadis Contacts Company Name: Address: Requiremy Age Email To: Purchase Order #: Paios Quote: Phone: Fax Project Name: Plant Yates Pooled Upgradient Pace Project Manager: Nicole D'Oleo State / Location Requested Due Date: Project Number: Pace Profile #: 10840 Georgia Requested Analysis Filtered (Y/N) codes to left) COLLECTED **Preservatives** MATPEX 0006 DW WT WW **Orhidry Water** SAMPLE TEMP AT COLLECTION (see valid on SAMPLE ID START END SL CL WP One Character per box. (A-Z, 0-9/, -) CONTAINERS App I / II (gpysum SAMPLE TYPE Sample ids must be unique TDS (2540C) TER DATE TIME DATE TIME YGWA-39 WT G 5 X X G YGWA-40 WT X x 33 YGWA-1I WT G 3 x ጀጀጀጀ 4 YGWA-1D G x X WT G YGWA-21 5 3 X YGWA-3I G X × G YGWA-3D wil 3 X х YGWA-14S G 5 3 X X .50 WT UP-DUP-2 G N} \_ 3 YGWA-301 10 G 5 2 3 X \_ x X x pHS59 WT G 11 UP-EB-1 \_\_ 5 2 3 x х UP-FB-1 5 2 x ADDITIONAL COMMENTS RELINQUISHED BY / AFFILIATION DATE ACCEPTED BY / AFFELIATION DATE TIME SAMPLE COMBITIONS Anions Suite 300.0 (Cl. F. Suffate) Callian (00) /Arcadis App III Metals: Boron 6020B, Ca 6010D; App M 6020B: Zn, Ag, Ni, V App IV: Metals 60208: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobatt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg) SAMPLER NAME AND SIGNATURE Received on (CA)
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	uletals: Boron 6020B, Ca 6010D; 6020B: Zn, Ag, Ni, V											V					,	-			<u> </u>									
	Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba),			× 4 = 2 . Kr = 2										11 "													Ш			
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# EBU	Sample kis must be unique	75	MATRIX CODE SAMPLE TYPE	+	TIME	DATE	TIME	SAMPLE TEMP		Unpreserved	HNO3	ᅙ	NaOH Na28203	Methanol	Other			TOS (2640C)	RAD 9315/9320	App 1 / 11 (gp					Residual C				
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Aninas S	uite 300.0 (Ct. F. Sulfate)	12	1	1 1			21	. 7.	SHARA.	. 1. 1	2	14.1	100 N. GOLC.	7	*******		verma.	*12**********			in Polices Por	7000	(Magaintering)	ne deer be		\$0 A	ire.	AMUNIA.	<b>49</b>
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	etals: Boron 60208, Ca 6010D; 020B; Zn, Ag, Ni, V		N	ush	Co	Son	211	1/12	1	64	∫ ,	个	منز	4	7			_لمرار	_	12	111	E2	104	:<					
Beryllium (	Aetals 60208: Antimony (Sb), Arsenic (As), Barium (Ba), (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead ( Li), Molybdenum (Mo), Selenium (Se) Aercury (11g)	Pb),		***************************************	- Will Windshop was							_		•				-			*								
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SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92587081				1	No quali	fiers assigned	





April 11, 2022

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

RE: Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between February 09, 2022 and February 11, 2022. 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,

Tyler Forney for Nicole D'Oleo

tegh Jugar

nicole.d'oleo@pacelabs.com

(704)875-9092 Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR Lauren Coker, Georgia Pwer Geoffrey Gay, ARCADIS - Atlanta Kristen Jurinko Kelley Sharpe, ARCADIS - Atlanta Alex Simpson, Arcadis Becky Steever, Arcadis Albert Zumbuhl, Arcadis



(770)734-4200



#### **CERTIFICATIONS**

YATES POOLED UPGRADIENT RAD Project:

Pace Project No.: 92587081

#### 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: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92587081001	YGWA-39	Water	02/08/22 14:55	02/09/22 10:18
92587081002	YGWA-40	Water	02/08/22 13:22	02/09/22 10:18
2587081003	YGWA-47	Water	02/08/22 11:40	02/09/22 10:18
2587081004	GWA-2	Water	02/08/22 11:50	02/09/22 10:18
2587081005	UP-DUP-1	Water	02/08/22 00:00	02/09/22 10:18
2587081006	YGWA-1I	Water	02/09/22 13:45	02/10/22 17:00
2587081007	YGWA-1D	Water	02/09/22 14:45	02/10/22 17:00
2587081008	YGWA-2I	Water	02/09/22 17:35	02/10/22 17:00
2587081009	YGWA-3I	Water	02/09/22 11:35	02/10/22 17:00
2587081010	YGWA-3D	Water	02/09/22 10:20	02/10/22 17:00
2587081011	UP-EB-1	Water	02/09/22 13:06	02/10/22 17:00
2587081012	UP-FB-1	Water	02/09/22 10:47	02/10/22 17:00
2587081013	YGWA-17S	Water	02/09/22 10:20	02/10/22 17:00
587081014	YGWA-18S	Water	02/09/22 12:24	02/10/22 17:00
587081015	YGWA-18I	Water	02/09/22 14:31	02/10/22 17:00
587081016	YGWA-20S	Water	02/09/22 16:19	02/10/22 17:00
2587081017	YGWA-21I	Water	02/09/22 17:40	02/10/22 17:00
2587081018	YGWA-5I	Water	02/10/22 17:27	02/11/22 16:45
2587081019	UP-DUP-3	Water	02/10/22 00:00	02/11/22 16:45
2587081020	YGWA-14S	Water	02/10/22 16:20	02/11/22 16:45
2587081021	UP-DUP-2	Water	02/10/22 00:00	02/11/22 16:45
2587081022	YGWA-30I	Water	02/10/22 09:20	02/11/22 16:45
587081023	YGWA-4I	Water	02/11/22 10:40	02/11/22 16:45
587081024	YGWA-5D	Water	02/10/22 17:46	02/11/22 16:45
2587081025	UP-EB-2	Water	02/10/22 11:40	02/11/22 16:45
2587081026	UP-FB-2	Water	02/10/22 17:13	02/11/22 16:45



#### **SAMPLE ANALYTE COUNT**

Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92587081001	YGWA-39	EPA 9315		1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081002	YGWA-40	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081003	YGWA-47	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081004	GWA-2	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081005	UP-DUP-1	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081006	YGWA-1I	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081007	YGWA-1D	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081008	YGWA-2I	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081009	YGWA-3I	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081010	YGWA-3D	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081011	UP-EB-1	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081012	UP-FB-1	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587081013	YGWA-17S	EPA 9315	JC2	1	PASI-PA



#### **SAMPLE ANALYTE COUNT**

Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2587081014	YGWA-18S	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2587081015	YGWA-18I	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2587081016	YGWA-20S	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2587081017	YGWA-21I	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2587081018	YGWA-5I	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2587081019	UP-DUP-3	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2587081020	YGWA-14S	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2587081021	UP-DUP-2	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2587081022	YGWA-30I	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2587081023	YGWA-4I	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2587081024	YGWA-5D	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2587081025	UP-EB-2	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA



#### **SAMPLE ANALYTE COUNT**

Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		Total Radium Calculation	JAL	1	PASI-PA
92587081026	UP-FB-2	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Lab Sample ID	Client Sample ID				
Method	Parameters	Result	Units	Report Limit Analyzed	Qualifiers
92587081001	YGWA-39				
EPA 9315	Radium-226	0.621 ± 0.193 (0.145)	pCi/L	03/14/22 08:	22
EPA 9320	Radium-228	C:97% T:NA 0.213 ± 0.292 (0.626) C:86%	pCi/L	03/04/22 12:	08
Total Radium Calculation	Total Radium	T:87% 0.834 ± 0.485 (0.771)	pCi/L	03/14/22 21:	59
92587081002	YGWA-40				
EPA 9315	Radium-226	0.390 ± 0.164 (0.197) C:87% T:NA	pCi/L	03/14/22 08:	22
EPA 9320	Radium-228	0.144 ± 0.283 (0.623) C:84% T:90%	pCi/L	03/04/22 12:	08
Total Radium Calculation	Total Radium	0.534 ± 0.447 (0.820)	pCi/L	03/14/22 21:	59
92587081003	YGWA-47				
EPA 9315	Radium-226	0.241 ± 0.130 (0.183) C:91% T:NA	pCi/L	03/14/22 08:	22
EPA 9320	Radium-228	0.159 ± 0.245 (0.528) C:84% T:90%	pCi/L	03/04/22 12:	08
Total Radium Calculation	Total Radium	0.400 ± 0.375 (0.711)	pCi/L	03/14/22 21:	59
92587081004	GWA-2				
EPA 9315	Radium-226	0.151 ± 0.105 (0.166) C:89% T:NA	pCi/L	03/14/22 08:	22
EPA 9320	Radium-228	0.311 ± 0.281 (0.568) C:87% T:90%	pCi/L	03/04/22 12:	08
Total Radium Calculation	Total Radium	0.462 ± 0.386 (0.734)	pCi/L	03/14/22 21:	59

#### **REPORT OF LABORATORY ANALYSIS**



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Lab Sample ID	Client Sample ID				
Method	Parameters —	Result	Units	Report Limit Analyzed	Qualifiers
92587081005	UP-DUP-1				
EPA 9315	Radium-226	0.138 ± 0.115 (0.208) C:75% T:NA	pCi/L	03/14/22 08:22	
EPA 9320	Radium-228	0.617 ± 0.346 (0.625) C:86% T:88%	pCi/L	03/04/22 12:09	
Total Radium Calculation	Total Radium	0.755 ± 0.461 (0.833)	pCi/L	03/14/22 21:59	
2587081006	YGWA-1I				
EPA 9315	Radium-226	0.211 ± 0.123 (0.190) C:95% T:NA	pCi/L	03/14/22 08:22	
EPA 9320	Radium-228	0.211 ± 0.575 (1.28) C:78% T:88%	pCi/L	03/04/22 12:09	
Total Radium Calculation	Total Radium	0.422 ± 0.698 (1.47)	pCi/L	03/14/22 21:59	
92587081007	YGWA-1D				
EPA 9315	Radium-226	0.294 ± 0.135 (0.159) C:93% T:NA	pCi/L	03/14/22 08:22	
EPA 9320	Radium-228	0.893 ± 0.529 (0.973) C:78% T:89%	pCi/L	03/04/22 12:09	
Total Radium Calculation	Total Radium	1.19 ± 0.664 (1.13)	pCi/L	03/14/22 21:59	
92587081008	YGWA-2I				
EPA 9315	Radium-226	0.205 ± 0.114 (0.150) C:91% T:NA	pCi/L	03/14/22 08:22	
EPA 9320	Radium-228	0.689 ± 0.535 (1.05) C:77% T:90%	pCi/L	03/04/22 12:09	
Total Radium Calculation	Total Radium	0.894 ± 0.649 (1.20)	pCi/L	03/14/22 21:59	

#### **REPORT OF LABORATORY ANALYSIS**



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Lab Sample ID	Client Sample ID				
Method	Parameters	Result	Units	Report Limit Analyzed	Qualifiers
92587081009	YGWA-3I				
EPA 9315	Radium-226	0.817 ± 0.240 (0.170)	pCi/L	03/14/22 08:22	
EPA 9320	Radium-228	C:83% T:NA 1.09 ± 0.451 (0.731) C:81%	pCi/L	03/04/22 12:09	
Total Radium Calculation	Total Radium	T:89% 1.91 ± 0.691 (0.901)	pCi/L	03/14/22 21:59	
92587081010	YGWA-3D				
EPA 9315	Radium-226	1.41 ± 0.334 (0.200) C:96% T:NA	pCi/L	03/14/22 08:18	
EPA 9320	Radium-228	1.87 ± 0.560 (0.704) C:82% T:90%	pCi/L	03/04/22 12:09	
Total Radium Calculation	Total Radium	3.28 ± 0.894 (0.904)	pCi/L	03/14/22 21:59	
92587081011	UP-EB-1				
EPA 9315	Radium-226	0.0487 ± 0.0838 (0.189) C:97% T:NA	pCi/L	03/14/22 08:18	
EPA 9320	Radium-228	0.387 ± 0.291 (0.568) C:83% T:97%	pCi/L	03/04/22 12:09	
Total Radium Calculation	Total Radium	0.436 ± 0.375 (0.757)	pCi/L	03/14/22 21:59	
2587081012	UP-FB-1				
EPA 9315	Radium-226	0.0259 ± 0.0622 (0.149) C:95% T:NA	pCi/L	03/14/22 08:18	
EPA 9320	Radium-228	0.546 ± 0.343 (0.645) C:81% T:93%	pCi/L	03/04/22 12:10	
Total Radium Calculation	Total Radium	0.572 ± 0.405 (0.794)	pCi/L	03/14/22 21:59	

#### **REPORT OF LABORATORY ANALYSIS**



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587081013	YGWA-17S					
EPA 9315	Radium-226	0.131 ± 0.0871 (0.122) C:95% T:NA	pCi/L	03/	14/22 08:19	
EPA 9320	Radium-228	0.00169 ± 0.325 (0.756) C:78% T:89%	pCi/L	03/0	04/22 12:10	
Total Radium Calculation	Total Radium	0.133 ± 0.412 (0.878)	pCi/L	03/	14/22 21:59	
92587081014	YGWA-18S					
EPA 9315	Radium-226	0.0618 ± 0.0753 (0.152) C:93% T:NA	pCi/L	03/	14/22 08:19	
EPA 9320	Radium-228	-0.0652 ± 0.340 (0.796) C:81% T:91%	pCi/L	03/4	04/22 12:10	
Total Radium Calculation	Total Radium	0.0618 ± 0.415 (0.948)	pCi/L	03/	14/22 21:59	
92587081015	YGWA-18I					
EPA 9315	Radium-226	0.107 ± 0.0873 (0.149) C:94% T:NA	pCi/L	03/	14/22 08:19	
EPA 9320	Radium-228	0.464 ± 0.334 (0.645) C:76% T:92%	pCi/L	03/4	04/22 12:10	
Total Radium Calculation	Total Radium	0.571 ± 0.421 (0.794)	pCi/L	03/	14/22 21:59	
92587081016	YGWA-20S					
EPA 9315	Radium-226	0.0382 ± 0.0564 (0.120) C:92% T:NA	pCi/L	03/	14/22 08:19	
EPA 9320	Radium-228	0.466 ± 0.326 (0.625) C:78% T:93%	pCi/L	03/4	04/22 12:10	
Total Radium Calculation	Total Radium	0.504 ± 0.382 (0.745)	pCi/L	03/	14/22 21:59	

#### **REPORT OF LABORATORY ANALYSIS**



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Lab Sample ID	Client Sample ID					
Method	Parameters —	Result	Units	Report Limit	Analyzed	Qualifiers
92587081017	YGWA-21I					
EPA 9315	Radium-226	0.790 ± 0.237 (0.195)	pCi/L	03/14/22 08:19		
EPA 9320	Radium-228	C:86% T:NA 1.15 ± 0.478	pCi/L		03/04/22 12:10	
		(0.782) C:81% T:88%				
Total Radium Calculation	Total Radium	1.94 ± 0.715 (0.977)	pCi/L	03/14/22 21:59		
2587081018	YGWA-5I	,				
EPA 9315	Radium-226	0.0387 ± 0.0686 (0.155)	pCi/L		03/18/22 09:27	
		C:92% T:NA				
EPA 9320	Radium-228	0.336 ± 0.397 (0.841) C:85%	pCi/L		03/04/22 12:18	
Total Radium Calculation	Total Radium	T:89% 0.375 ±	pCi/L		03/21/22 15:36	
Total Naulum Calculation	Total Naulum	0.466 (0.996)	POI/L		03/21/22 13:30	
2587081019	UP-DUP-3					
EPA 9315	Radium-226	0.183 ± 0.111 (0.169)	pCi/L		03/18/22 09:27	
EPA 9320	Radium-228	C:95% T:NA -0.150 ± 0.507	pCi/L		03/04/22 12:18	
		(1.19) C:69% T:82%				
Total Radium Calculation	Total Radium	0.183 ± 0.618 (1.36)	pCi/L		03/21/22 15:36	
2587081020	YGWA-14S					
EPA 9315	Radium-226	-0.0197 ± 0.0632 (0.190)	pCi/L		03/18/22 09:27	
EPA 9320	Radium-228	C:92% T:NA -0.199 ± 0.449	pCi/L		03/04/22 12:18	
		(1.06) C:75% T:89%				
Total Radium Calculation	Total Radium	0.000 ± 0.512 (1.25)	pCi/L		03/21/22 15:36	

#### **REPORT OF LABORATORY ANALYSIS**



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Lab Sample ID	Client Sample ID					
Method	Parameters	Result —	Units	Report Limit Ana	llyzed Qualifie	
92587081021	UP-DUP-2					
EPA 9315	Radium-226	0.0406 ± 0.0923 (0.219)	pCi/L	03/18/22 09:27		
		C:63% T:NA				
EPA 9320	Radium-228	-0.195 ± 0.313 (0.784) C:91% T:90%	pCi/L	03/04/2	22 18:26	
otal Radium Calculation	Total Radium	0.0406 ± 0.405 (1.00)	pCi/L	03/21/2	22 15:36	
2587081022	YGWA-30I	(1.00)				
	Radium-226	0.0634 ±	pCi/L	02/40/0	22 09:27	
EPA 9315	NdUIUIII-220	0.0744	pCI/L	03/18/2	.L U3.L1	
		(0.148)				
EPA 9320	Radium-228	C:89% T:NA 0.205 ±	pCi/L	03/08/2	22 15:20	
	radium 220	0.331 (0.718) C:68%	ροι/L	03/00/2	.2 10.20	
	T. 15 "	T:87%	0.4	22/21/2		
otal Radium Calculation	Total Radium	0.268 ± 0.405 (0.866)	pCi/L	03/21/2	22 15:36	
2587081023	YGWA-4I					
EPA 9315	Radium-226	0.501 ±	pCi/L	03/18/2	22 09:27	
		0.174 (0.154) C:90% T:NA				
EPA 9320	Radium-228	0.495 ± 0.381 (0.744) C:69%	pCi/L	03/08/2	22 15:20	
Total Radium Calculation	Total Radium	T:88% 0.996 ±	~C:/I	02/24/2	00.45.06	
otal Radium Calculation	rotal Radium	0.555 (0.898)	pCi/L	03/21/2	22 15:36	
2587081024	YGWA-5D					
EPA 9315	Radium-226	2.47 ± 0.487 (0.124)	pCi/L	03/18/2	22 10:23	
		C:87% T:NA				
EPA 9320	Radium-228	0.856 ± 0.428 (0.737) C:69%	pCi/L	03/08/2	22 15:20	
	T. 15 "	T:93%	Q: "			
Total Radium Calculation	Total Radium	3.33 ± 0.915 (0.861)	pCi/L	03/21/2	22 15:36	

#### **REPORT OF LABORATORY ANALYSIS**



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92587081025	UP-EB-2					
EPA 9315	Radium-226	0.0353 ± 0.0661 (0.151) C:97% T:NA	pCi/L		03/22/22 09:52	
EPA 9320	Radium-228	0.133 ± 0.314 (0.699) C:75% T:90%	pCi/L		03/08/22 15:20	
Total Radium Calculation	Total Radium	0.168 ± 0.380 (0.850)	pCi/L		03/22/22 15:27	
92587081026	UP-FB-2					
EPA 9315	Radium-226	0.0543 ± 0.0745 (0.158) C:98% T:NA	pCi/L		03/22/22 09:52	
EPA 9320	Radium-228	0.148 ± 0.542 (1.23) C:72% T:89%	pCi/L		03/08/22 18:43	
Total Radium Calculation	Total Radium	0.202 ± 0.617 (1.39)	pCi/L		03/22/22 15:27	



#### **ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-39 PWS:	Lab ID: 9258 Site ID:	<b>7081001</b> Collected: 02/08/22 14:55 Sample Type:	Received:	02/09/22 10:18	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.621 ± 0.193 (0.145) C:97% T:NA	pCi/L	03/14/22 08:22	2 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.213 ± 0.292 (0.626) C:86% T:87%	pCi/L	03/04/22 12:08	3 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.834 ± 0.485 (0.771)	pCi/L	03/14/22 21:59	7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-40 PWS:	Lab ID: 9258 Site ID:	<b>7081002</b> Collected: 02/08/22 13:22 Sample Type:	Received:	02/09/22 10:18	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.390 ± 0.164 (0.197) C:87% T:NA	pCi/L	03/14/22 08:22	2 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.144 ± 0.283 (0.623) C:84% T:90%	pCi/L	03/04/22 12:08	3 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.534 ± 0.447 (0.820)	pCi/L	03/14/22 21:59	7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-47 PWS:	Lab ID: 9258 Site ID:	<b>7081003</b> Collected: 02/08/22 11:40 Sample Type:	Received:	02/09/22 10:18	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.241 ± 0.130 (0.183) C:91% T:NA	pCi/L	03/14/22 08:22	2 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.159 ± 0.245 (0.528) C:84% T:90%	pCi/L	03/04/22 12:08	3 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.400 ± 0.375 (0.711)	pCi/L	03/14/22 21:59	7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: GWA-2 PWS:	Lab ID: 9258 Site ID:	<b>7081004</b> Collected: 02/08/22 11:50 Sample Type:	Received:	02/09/22 10:18	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.151 ± 0.105 (0.166) C:89% T:NA	pCi/L	03/14/22 08:22	2 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.311 ± 0.281 (0.568) C:87% T:90%	pCi/L	03/04/22 12:08	3 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.462 ± 0.386 (0.734)	pCi/L	03/14/22 21:59	7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: UP-DUP-1 PWS:	Lab ID: 9258' Site ID:	<b>7081005</b> Collected: 02/08/22 00:00 Sample Type:	Received:	02/09/22 10:18	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.138 ± 0.115 (0.208) C:75% T:NA	pCi/L	03/14/22 08:22	2 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.617 ± 0.346 (0.625) C:86% T:88%	pCi/L	03/04/22 12:09	9 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.755 ± 0.461 (0.833)	pCi/L	03/14/22 21:59	9 7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-1I PWS:	Lab ID: 9258' Site ID:	<b>7081006</b> Collected: 02/09/22 13:45 Sample Type:	Received:	02/10/22 17:00	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.211 ± 0.123 (0.190) C:95% T:NA	pCi/L	03/14/22 08:22	13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.211 ± 0.575 (1.28) C:78% T:88%	pCi/L	03/04/22 12:09	15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.422 ± 0.698 (1.47)	pCi/L	03/14/22 21:59	7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-1D PWS:	<b>Lab ID: 9258708</b> Site ID:	Collected: 02/09/22 14:45 Sample Type:	Received:	02/10/22 17:00	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	rvices - Greensburg				
Radium-226	EPA 9315	0.294 ± 0.135 (0.159) C:93% T:NA	pCi/L	03/14/22 08:22	2 13982-63-3	
	Pace Analytical Ser	rvices - Greensburg				
Radium-228	EPA 9320	0.893 ± 0.529 (0.973) C:78% T:89%	pCi/L	03/04/22 12:09	15262-20-1	
	Pace Analytical Ser	rvices - Greensburg				
Total Radium	Total Radium Calculation	1.19 ± 0.664 (1.13)	pCi/L	03/14/22 21:59	7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-2I PWS:	Lab ID: 9258 Site ID:	<b>7081008</b> Collected: 02/09/22 17:35 Sample Type:	Received:	02/10/22 17:00	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.205 ± 0.114 (0.150) C:91% T:NA	pCi/L	03/14/22 08:22	13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.689 ± 0.535 (1.05) C:77% T:90%	pCi/L	03/04/22 12:09	15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.894 ± 0.649 (1.20)	pCi/L	03/14/22 21:59	7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-3I PWS:	<b>Lab ID: 9258708</b> Site ID:	1009 Collected: 02/09/22 11:35 Sample Type:	Received:	02/10/22 17:00	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	vices - Greensburg				
Radium-226	EPA 9315	0.817 ± 0.240 (0.170) C:83% T:NA	pCi/L	03/14/22 08:22	2 13982-63-3	
	Pace Analytical Ser	vices - Greensburg				
Radium-228	EPA 9320	1.09 ± 0.451 (0.731) C:81% T:89%	pCi/L	03/04/22 12:09	9 15262-20-1	
	Pace Analytical Ser	vices - Greensburg				
Total Radium	Total Radium Calculation	1.91 ± 0.691 (0.901)	pCi/L	03/14/22 21:59	7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-3D PWS:	Lab ID: 9258 Site ID:	<b>7081010</b> Collected: 02/09/22 10:20 Sample Type:	Received:	02/10/22 17:00	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	1.41 ± 0.334 (0.200) C:96% T:NA	pCi/L	03/14/22 08:18	8 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	1.87 ± 0.560 (0.704) C:82% T:90%	pCi/L	03/04/22 12:09	9 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	3.28 ± 0.894 (0.904)	pCi/L	03/14/22 21:59	9 7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: UP-EB-1 PWS:	Lab ID: 9258 Site ID:	<b>7081011</b> Collected: 02/09/22 13:06 Sample Type:	Received:	02/10/22 17:00	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.0487 ± 0.0838 (0.189) C:97% T:NA	pCi/L	03/14/22 08:18	13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.387 ± 0.291 (0.568) C:83% T:97%	pCi/L	03/04/22 12:09	15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.436 ± 0.375 (0.757)	pCi/L	03/14/22 21:59	7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: UP-FB-1 PWS:	Lab ID: 9258 Site ID:	<b>7081012</b> Collected: 02/09/22 10:47 Sample Type:	Received:	02/10/22 17:00	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.0259 ± 0.0622 (0.149) C:95% T:NA	pCi/L	03/14/22 08:18	13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.546 ± 0.343 (0.645) C:81% T:93%	pCi/L	03/04/22 12:10	15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.572 ± 0.405 (0.794)	pCi/L	03/14/22 21:59	7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-17S PWS:	Lab ID: 9258 Site ID:	<b>7081013</b> Collected: 02/09/22 10:20 Sample Type:	Received:	02/10/22 17:00 M	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.131 ± 0.0871 (0.122) C:95% T:NA	pCi/L	03/14/22 08:19	13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.00169 ± 0.325 (0.756) C:78% T:89%	pCi/L	03/04/22 12:10	15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.133 ± 0.412 (0.878)	pCi/L	03/14/22 21:59	7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-18S PWS:	Lab ID: 9258 Site ID:	<b>7081014</b> Collected: 02/09/22 12:24 Sample Type:	Received:	02/10/22 17:00	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.0618 ± 0.0753 (0.152) C:93% T:NA	pCi/L	03/14/22 08:19	13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	-0.0652 ± 0.340 (0.796) C:81% T:91%	pCi/L	03/04/22 12:10	15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.0618 ± 0.415 (0.948)	pCi/L	03/14/22 21:59	7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-18I PWS:	Lab ID: 9258 Site ID:	<b>7081015</b> Collected: 02/09/22 14:31 Sample Type:	Received:	02/10/22 17:00	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.107 ± 0.0873 (0.149) C:94% T:NA	pCi/L	03/14/22 08:19	13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.464 ± 0.334 (0.645) C:76% T:92%	pCi/L	03/04/22 12:10	15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.571 ± 0.421 (0.794)	pCi/L	03/14/22 21:59	7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-20S PWS:	<b>Lab ID: 925870</b> Site ID:	<b>O81016</b> Collected: 02/09/22 16:19 Sample Type:	Received:	02/10/22 17:00	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	ervices - Greensburg				
Radium-226	EPA 9315	0.0382 ± 0.0564 (0.120) C:92% T:NA	pCi/L	03/14/22 08:19	13982-63-3	
	Pace Analytical S	ervices - Greensburg				
Radium-228	EPA 9320	0.466 ± 0.326 (0.625) C:78% T:93%	pCi/L	03/04/22 12:10	15262-20-1	
	Pace Analytical S	ervices - Greensburg				
Total Radium	Total Radium Calculation	0.504 ± 0.382 (0.745)	pCi/L	03/14/22 21:59	7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-21I PWS:	Lab ID: 9258 Site ID:	<b>7081017</b> Collected: 02/09/22 17:40 Sample Type:	Received:	02/10/22 17:00 M	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.790 ± 0.237 (0.195) C:86% T:NA	pCi/L	03/14/22 08:19	13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	1.15 ± 0.478 (0.782) C:81% T:88%	pCi/L	03/04/22 12:10	15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	1.94 ± 0.715 (0.977)	pCi/L	03/14/22 21:59	7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-5I PWS:	<b>Lab ID: 9258</b> Site ID:	<b>7081018</b> Collected: 02/10/22 17:27 Sample Type:	Received:	02/11/22 16:45	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.0387 ± 0.0686 (0.155) C:92% T:NA	pCi/L	03/18/22 09:27	7 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.336 ± 0.397 (0.841) C:85% T:89%	pCi/L	03/04/22 12:18	3 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	$0.375 \pm 0.466  (0.996)$	pCi/L	03/21/22 15:36	6 7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: UP-DUP-3 PWS:	<b>Lab ID: 9258708</b> Site ID:	<b>1019</b> Collected: 02/10/22 00:00 Sample Type:	Received:	02/11/22 16:45	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	vices - Greensburg				
Radium-226	EPA 9315	0.183 ± 0.111 (0.169) C:95% T:NA	pCi/L	03/18/22 09:27	7 13982-63-3	
	Pace Analytical Ser	vices - Greensburg				
Radium-228	EPA 9320	-0.150 ± 0.507 (1.19) C:69% T:82%	pCi/L	03/04/22 12:18	3 15262-20-1	
	Pace Analytical Ser	vices - Greensburg				
Total Radium	Total Radium Calculation	0.183 ± 0.618 (1.36)	pCi/L	03/21/22 15:36	7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-14S PWS:	<b>Lab ID: 9258708</b> Site ID:	1020 Collected: 02/10/22 16:20 Sample Type:	Received:	02/11/22 16:45	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	vices - Greensburg				
Radium-226	EPA 9315	-0.0197 ± 0.0632 (0.190) C:92% T:NA	pCi/L	03/18/22 09:27	7 13982-63-3	
	Pace Analytical Ser	vices - Greensburg				
Radium-228	EPA 9320	-0.199 ± 0.449 (1.06) C:75% T:89%	pCi/L	03/04/22 12:18	3 15262-20-1	
	Pace Analytical Serv	vices - Greensburg				
Total Radium	Total Radium Calculation	0.000 ± 0.512 (1.25)	pCi/L	03/21/22 15:36	7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: UP-DUP-2 PWS:	<b>Lab ID: 9258708</b> Site ID:	81021 Collected: 02/10/22 00:00 Sample Type:	Received:	02/11/22 16:45	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Se	rvices - Greensburg				
Radium-226	EPA 9315	0.0406 ± 0.0923 (0.219) C:63% T:NA	pCi/L	03/18/22 09:27	13982-63-3	
	Pace Analytical Se	rvices - Greensburg				
Radium-228	EPA 9320	-0.195 ± 0.313 (0.784) C:91% T:90%	pCi/L	03/04/22 18:26	5 15262-20-1	
	Pace Analytical Se	rvices - Greensburg				
Total Radium	Total Radium Calculation	0.0406 ± 0.405 (1.00)	pCi/L	03/21/22 15:36	7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-30I PWS:	Lab ID: 9258 Site ID:	<b>7081022</b> Collected: 02/10/22 09:20 Sample Type:	Received:	02/11/22 16:45	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.0634 ± 0.0744 (0.148) C:89% T:NA	pCi/L	03/18/22 09:27	7 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.205 ± 0.331 (0.718) C:68% T:87%	pCi/L	03/08/22 15:20	15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.268 ± 0.405 (0.866)	pCi/L	03/21/22 15:36	7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-4I PWS:	<b>Lab ID: 92587</b> Site ID:	<b>081023</b> Collected: 02/11/22 10:40 Sample Type:	Received:	02/11/22 16:45	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	Services - Greensburg		,		
Radium-226	EPA 9315	0.501 ± 0.174 (0.154) C:90% T:NA	pCi/L	03/18/22 09:27	13982-63-3	
	Pace Analytical S	Services - Greensburg				
Radium-228	EPA 9320	0.495 ± 0.381 (0.744) C:69% T:88%	pCi/L	03/08/22 15:20	15262-20-1	
	Pace Analytical S	Services - Greensburg				
Total Radium	Total Radium Calculation	0.996 ± 0.555 (0.898)	pCi/L	03/21/22 15:36	7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: YGWA-5D PWS:	<b>Lab ID: 9258708</b> Site ID:	81024 Collected: 02/10/22 17:46 Sample Type:	Received:	02/11/22 16:45	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Se	rvices - Greensburg				
Radium-226	EPA 9315	2.47 ± 0.487 (0.124) C:87% T:NA	pCi/L	03/18/22 10:23	3 13982-63-3	
	Pace Analytical Se	rvices - Greensburg				
Radium-228	EPA 9320	0.856 ± 0.428 (0.737) C:69% T:93%	pCi/L	03/08/22 15:20	15262-20-1	
	Pace Analytical Se	rvices - Greensburg				
Total Radium	Total Radium Calculation	3.33 ± 0.915 (0.861)	pCi/L	03/21/22 15:36	7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: UP-EB-2 PWS:	<b>Lab ID: 92587</b> Site ID:	<b>7081025</b> Collected: 02/10/22 11:40 Sample Type:	Received:	02/11/22 16:45	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	Services - Greensburg				
Radium-226	EPA 9315	0.0353 ± 0.0661 (0.151) C:97% T:NA	pCi/L	03/22/22 09:52	2 13982-63-3	
	Pace Analytical S	Services - Greensburg				
Radium-228	EPA 9320	0.133 ± 0.314 (0.699) C:75% T:90%	pCi/L	03/08/22 15:20	) 15262-20-1	
	Pace Analytical S	Services - Greensburg				
Total Radium	Total Radium Calculation	0.168 ± 0.380 (0.850)	pCi/L	03/22/22 15:27	7 7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Sample: UP-FB-2 PWS:	<b>Lab ID: 9258</b> Site ID:	<b>7081026</b> Collected: 02/10/22 17:13 Sample Type:	Received:	02/11/22 16:45	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.0543 ± 0.0745 (0.158) C:98% T:NA	pCi/L	03/22/22 09:52	2 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.148 ± 0.542 (1.23) C:72% T:89%	pCi/L	03/08/22 18:43	3 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.202 ± 0.617 (1.39)	pCi/L	03/22/22 15:27	7 7440-14-4	



Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

QC Batch: 486614 Analysis Method: EPA 9315

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

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92587081018, 92587081019, 92587081020, 92587081021, 92587081022, 92587081023, 92587081024

METHOD BLANK: 2353261 Matrix: Water

Associated Lab Samples: 92587081018, 92587081019, 92587081020, 92587081021, 92587081022, 92587081023, 92587081024

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

 Radium-226
 0.0547 ± 0.0680 (0.137) C:95% T:NA
 pCi/L
 03/18/22 09:04

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: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

QC Batch: 486659 Analysis Method: EPA 9320

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

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92587081021

METHOD BLANK: 2353495 Matrix: Water

Associated Lab Samples: 92587081021

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

 Radium-228
 0.115 ± 0.191 (0.414) C:101% T:93%
 pCi/L
 03/04/22 12:08

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: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

QC Batch Method:

QC Batch: 486616

Analysis Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92587081025, 92587081026

EPA 9315

METHOD BLANK: 2353263 Matrix: Water

Associated Lab Samples: 92587081025, 92587081026

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

 Radium-226
 0.00708 ± 0.0659 (0.175) C:97% T:NA
 pCi/L
 03/22/22 09:52

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: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

QC Batch: 485944 Analysis Method: EPA 9315

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

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92587081001, 92587081002, 92587081003, 92587081004, 92587081005, 92587081006, 92587081007,

92587081008, 92587081009, 92587081010, 92587081011, 92587081012, 92587081013, 92587081014,

92587081015, 92587081016, 92587081017

METHOD BLANK: 2349863 Matrix: Water

Associated Lab Samples: 92587081001, 92587081002, 92587081003, 92587081004, 92587081005, 92587081006, 92587081007,

92587081008, 92587081009, 92587081010, 92587081011, 92587081012, 92587081013, 92587081014,

92587081015, 92587081016, 92587081017

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

 Radium-226
 0.0634 ± 0.0745 (0.148) C:93% T:NA
 pCi/L
 03/14/22 08:22

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: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

QC Batch: 486657 Analysis Method: EPA 9320
QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92587081001, 92587081002, 92587081003, 92587081004, 92587081005, 92587081006, 92587081007,

92587081008, 92587081009, 92587081010, 92587081011, 92587081012, 92587081013, 92587081014,

92587081015, 92587081016, 92587081017, 92587081018, 92587081019, 92587081020

METHOD BLANK: 2353492 Matrix: Water

Associated Lab Samples: 92587081001, 92587081002, 92587081003, 92587081004, 92587081005, 92587081006, 92587081007,

92587081008, 92587081009, 92587081010, 92587081011, 92587081012, 92587081013, 92587081014,

92587081015, 92587081016, 92587081017, 92587081018, 92587081019, 92587081020

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

 Radium-228
 0.110 ± 0.223 (0.492) C:84% T:94%
 pCi/L
 03/04/22 12:08

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: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

QC Batch: 486660 Analysis Method: EPA 9320

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

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92587081022, 92587081023, 92587081024, 92587081025, 92587081026

METHOD BLANK: 2353496 Matrix: Water

Associated Lab Samples: 92587081022, 92587081023, 92587081024, 92587081025, 92587081026

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

 Radium-228
 0.0198 ± 0.286 (0.668) C:70% T:93%
 pCi/L
 03/08/22 15:19

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: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

### **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: 04/11/2022 11:59 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: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Date: 04/11/2022 11:59 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch
92587081001	YGWA-39	EPA 9315	485944		
92587081002	YGWA-40	EPA 9315	485944		
2587081003	YGWA-47	EPA 9315	485944		
2587081004	GWA-2	EPA 9315	485944		
2587081005	UP-DUP-1	EPA 9315	485944		
2587081006	YGWA-1I	EPA 9315	485944		
2587081007	YGWA-1D	EPA 9315	485944		
2587081008	YGWA-2I	EPA 9315	485944		
2587081009	YGWA-3I	EPA 9315	485944		
2587081010	YGWA-3D	EPA 9315	485944		
2587081011	UP-EB-1	EPA 9315	485944		
2587081012	UP-FB-1	EPA 9315	485944		
2587081013	YGWA-17S	EPA 9315	485944		
587081014	YGWA-17S	EPA 9315	485944		
2587081015	YGWA-18I	EPA 9315	485944		
2587081016	YGWA-101	EPA 9315	485944		
2587081016	YGWA-21I	EPA 9315	485944		
		EFA 9313			
2587081018	YGWA-5I	EPA 9315	486614		
2587081019	UP-DUP-3	EPA 9315	486614		
2587081020	YGWA-14S	EPA 9315	486614		
2587081021	UP-DUP-2	EPA 9315	486614		
2587081022	YGWA-30I	EPA 9315	486614		
587081023	YGWA-4I	EPA 9315	486614		
2587081024	YGWA-5D	EPA 9315	486614		
587081025	UP-EB-2	EPA 9315	486616		
2587081026	UP-FB-2	EPA 9315	486616		
2587081001	YGWA-39	EPA 9320	486657		
2587081002	YGWA-40	EPA 9320	486657		
2587081003	YGWA-47	EPA 9320	486657		
587081004	GWA-2	EPA 9320	486657		
2587081005	UP-DUP-1	EPA 9320	486657		
2587081006	YGWA-1I	EPA 9320	486657		
2587081007	YGWA-1D	EPA 9320	486657		
2587081008	YGWA-2I	EPA 9320	486657		
2587081009	YGWA-3I	EPA 9320	486657		
2587081010	YGWA-3D	EPA 9320	486657		
2587081011	UP-EB-1	EPA 9320	486657		
2587081012	UP-FB-1	EPA 9320	486657		
2587081013	YGWA-17S	EPA 9320	486657		
2587081014	YGWA-18S	EPA 9320	486657		
2587081015	YGWA-18I	EPA 9320	486657		
587081016	YGWA-20S	EPA 9320	486657		
2587081017	YGWA-21I	EPA 9320	486657		
2587081017 2587081018	YGWA-5I	EPA 9320	486657		
2587081019	UP-DUP-3		486657		
2587081019 2587081020	YGWA-14S	EPA 9320 EPA 9320	486657 486657		
2587081021	UP-DUP-2	EPA 9320	486659		



# **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: YATES POOLED UPGRADIENT RAD

Pace Project No.: 92587081

Date: 04/11/2022 11:59 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587081022	YGWA-30I	EPA 9320	486660		
92587081023	YGWA-4I	EPA 9320	486660		
92587081024	YGWA-5D	EPA 9320	486660		
92587081025	UP-EB-2	EPA 9320	486660		
92587081026	UP-FB-2	EPA 9320	486660		
92587081001	YGWA-39	Total Radium Calculation	490241		
92587081002	YGWA-40	Total Radium Calculation	490241		
92587081003	YGWA-47	Total Radium Calculation	490241		
92587081004	GWA-2	Total Radium Calculation	490241		
92587081005	UP-DUP-1	Total Radium Calculation	490241		
92587081006	YGWA-1I	Total Radium Calculation	490241		
92587081007	YGWA-1D	Total Radium Calculation	490241		
92587081008	YGWA-2I	Total Radium Calculation	490241		
92587081009	YGWA-3I	Total Radium Calculation	490241		
92587081010	YGWA-3D	Total Radium Calculation	490241		
92587081011	UP-EB-1	Total Radium Calculation	490241		
92587081012	UP-FB-1	Total Radium Calculation	490241		
92587081013	YGWA-17S	Total Radium Calculation	490241		
92587081014	YGWA-18S	Total Radium Calculation	490241		
92587081015	YGWA-18I	Total Radium Calculation	490241		
92587081016	YGWA-20S	Total Radium Calculation	490241		
92587081017	YGWA-21I	Total Radium Calculation	490241		
92587081018	YGWA-5I	Total Radium Calculation	491834		
92587081019	UP-DUP-3	Total Radium Calculation	491834		
92587081020	YGWA-14S	Total Radium Calculation	491834		
92587081021	UP-DUP-2	Total Radium Calculation	491834		
92587081022	YGWA-30I	Total Radium Calculation	491834		
92587081023	YGWA-4I	Total Radium Calculation	491834		
92587081024	YGWA-5D	Total Radium Calculation	491834		
92587081025	UP-EB-2	Total Radium Calculation	492151		
92587081026	UP-FB-2	Total Radium Calculation	492151		

Pace Analytical					R) Page 1 of 2						
,		Docume	nt No.: 33-Rev.08		Issuing Authority: Pace Carolinas Quality Office						
· · · · · · · · · · · · · · · · · · ·	<u> </u>	AR-C3-0	33-KEY.U6		race calonias quanty arrice						
boratory receiving samples: Asheville Eden Greenwood  Sample Condition Client Name:  Upon Receipt (4)	Hunters	sville [	] Ralei	igh 🗌	Mechanicsville Atlanta Kernersville Cot #: WO#: 92587091						
	PS USP			lient							
tody Seal Present? Yes No	Seals intact?	Yes	□no	•	Date/Initials Person Examining Contents: 2/9/2/						
king Material: Bubble Wrap [ rmometer:	Bubble Bags  Type of I		- ブ	Other Slue	Biological Tissue Frozent  Yes No None						
ler Temp: Add/Subtra	2.5		_		Temp should be above freezing to 6°C  Samples out of temp criteria. Samples on ice, cooling proce has begun						
samples originate in a quarantine zone within the  Yes   No	United States: C/	NY, or S	SC (check m	aps)?	Did samples originate from a foreign source (Internationally, including Hawaii and Puerto Rico)? Yes No  Comments/Discrepancy:						
		, , , , , , , , , , , , , , , , , , , ,		┪.							
Chain of Custody Present?	□ es ·	<u></u>	□n/a	1.							
Samples Arrived within Hold Time?	□¥es □Yes			3.							
Short Hold Time Analysis (<72 hr.)?  Rush Turn Around Time Requested?		Z No	□N/A	4.							
Sufficient Valume?	. ∠JVes	□No	□n/a	5.	•						
Correct Containers Used?	₽7es	□No	□n/a	6.							
-Pace Containers Used?	[dres	∏No -	□N/A	-							
Containers Intact?	<u> </u>	□No	□N/A	7.							
Dissolved analysis: Samples Field Filtered? Sample Labels Match COC?		□No □No	□N/A	<b>8.</b> 9.							
-Includes Date/Time/ID/Analysis Matrix:	$\mathcal{M}$			·	•						
Headspace in VOA Vials (>5-6mm)?	Yes	□No	[]N/A	10.							
Trip Blank Present?	☐Yes 	□No	ØN/A	11.							
Trip Blank Custody Seals Present?	☐Yes	□No	N/A								
OMMENTS/SAMPLE DISCREPANCY			<u>-</u>		Field Data Required? ☐Yes: ☐No:						
NT NOTIFICATION/RESOLUTION				Loi	t ID of split containers:						
			COMPANY STREET, CONT. T. TOTOGO E. PRIME M.P.	,2-00.000 e 2.000 see	## ## ## ## ## ## ## ## ## ## ## ## ##						

Project Manager SCURF Review:

Project Manager SRF Review:

Date:

Date:

Document Name:

Document Revised: November 15, 2021

# CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

			App IV: Berylium Lithium ( 7040A: 1	App III o	Anions (		12	ļ=	10	9	œ	7	6	Ů,	4		ω	N		ITEM#			Request	Phone:	Email To:		Company,	Require	Section A
			App N: Melals 8020B: Anémorry (Sb), Arsenic (As), Banium (Ba), Beryalum (Be), Cadmium (Cd), Chomnium (Ch), Cobalt (Co), Lead (Pb), Lahium (Li), Molyodenum (Mo), Salenium (Se) 7040A: Mercury (Hg)	App III Metals: Boron 9020B, Ca 60100; App III 6020B; Zn, Ag, Ni, V	Anions Suite 300.0 (CL.F., Suifate)	ADDITIONAL COMMENTS	0P=FB-1	WP-EB-1	YGWA-301	UR-DUP-2	Your to	YGWA 3B	YGWA-3I	YGWA21	TIENNA TIEN		TOWA-11	YGWA-40	YGWA-39	SAMPLE ID One Character per box. (A-Z, 0-8 /,-) Sample lds must be unique			Requested Due Date:	Fax	8	noine, Go	[	₽	•
			m (Ba), )), Lead (Pb),																AND THE PERSON OF THE PERSON O	Change Water W/1 Whose Water W/0 Product 9 Co. Scalinold 9 Co. Wips Wips Wip Wip Wip 1 Change 17 Those 78			Project I	Project Name:	Purchas	Copy	Report To:	Required Project Information:	Section B
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	App Nr. Metals 6020Er. Antimony (Sb.), Arsenia (As), Berium (Ba), Beryfum (Be), Cedmium (Cd), Chromium (Ch), Cobalt (Co), Lead (Pb), Lithium (Li), Molyodenum (Mo), Setenium (Se) 7040Ar. Mercury (Hg)	App III Metals: Boron 8020B, Ce 6010D; App III 6020B: Zh, Ag, Ni, V	Arrions Suite 300.0 (C), F. Sulfate)	ADDITIONAL COMMENTS	1200.24	KOH 1987	YCHILL IBI	SSTAMPI	X3114	**************************************		MONTHS!	******	UP-DUP-1	GWA-2	18-70-61	SAMPLE ID One Churactor per box. (A-Z, 0-9 /, -) Sample los must be unique			Requested Due Date:	APL	Augula, SO	GA Power	Required Client information:	
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Pace Analytical	Sample Condition Upon Receipt (SC	UR) Page 1 of 2
Taco relatytical	Document No.: F-CAR-CS-033-Rev.08	Issuing Authority:
	r-CAR-C3-U35-Rev.U8	Pace Carolinas Quality Office
Laboratory receiving samples: Asheville Eden Greenwood		Vacand Vacand
Sample Condition Client Name: Upon Receipt	1 Point Proj	ect #: WO#: 92587091  PM: NMG Due Date: 02/23/22
Courier: Fed Ex U	UPS USPS Client	PM: NMG Due Date: 02/23/22 CLIENT: GA-GA Power
ustody Seal Present? Yes 4No	Seals Intact? Yes No	Date/Initials Person Examining Contents 2/16/22
acking Material:   Bubble Wrap  [	Bubble Bags None Other	Biological Tissue Frozen?
hermometer: 214		□None □Yes □No □N/A
correction in Add/Subtraction in	act (°C) +0 d	Temp should be above freezing to 6°C  Samples out of temperiteria. Samples on ice, cooling process has begun
id samples originate in a quarantine zone within the	e United States: CA, NY, or SC (check maps)?	Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?   Comments/Discrepancy:
		Comments/Otscrepancy:
Chain of Custody Present?	Yes No N/A 1.	
Samples Arrived within Hold Time?	✓Yes No: N/A 2:	
Short Hold Time Analysis (<72 hr.)?	Yes TNO DN/A 3.	
Rush Turn Around Time Requested?	□Yes (No □N/A 4.	
Sufficient Volume?	Yes No N/A 5.	
Correct Containers Used?	ØYes □No □N/A 6.	
-Pace Containers Used?	Zres No N/A	
Containers Intact?	□Yes □No □N/A 7.	
Dissolved analysis: Samples Field Filtered?	Yes No ANA 8.	
Sample Labels Match COC?	TYES NO NA 9.	
-Includes Date/Time/ID/Analysis Matrix:	W ·	·
Headspace in VOA Vials (>5-6mm)?	□Yes □No ☑N/A 10.	
Trip Blank Present?	Yes No NA 11.	
Trip Blank Custody Seals Present?	□Yes □No □N/A	Field Data Required? ☐Yes ☐No
	Western Branch B	
IENT NOTIFICATION/RESOLUTION	to	ot ID of split containers:
	A A A A A A A A A A A A A A A A A A A	
erson contacted:	Date/Time;	
Project Manager SCURF Review:		Date:
Project Manager SRF Review:		Date:

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Document Revised: November 15, 2021

	App IV: 1 Beryfium Lithium ( 7040A: N	App III N	Anions S	1000 X 400	12	Ξ	10	9	6	7	6	9		٥	N N			ITEM#			Loodoo		Email io:		Address	Company:	Required	Ç.
	App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Bartum (Ba), Beryffum (Be), Cadmium (Cd), Chomium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mencury (Hg)	App III Metals: Boron 60208, Cs 6010D; App I/I 6020B: Zn, Ag, Ni, V	Anions Suite 300.0 (Cl. F. Suifate)	ADDITIONAL COMMISTIS.	<b>母</b> 君————————————————————————————————————	<del>UP EB.4</del>	ACMY-30L	LIP-BUP-2	XGWA-TAS	YGWA-3D	YGWA 3I	YGWA-21	YGWA-1D	YGWA-1	T-CWA-40		SE THEN	SAMPLE ID  SAMPLE ID  SARSold  One Character per box.  (A-Z, 0-91, -)  Santple ids must be unique  These	**ATPDX	ACADOMONIA CONTRACTOR AND ACADOMONIA CONTRACTOR AND ACADOMONIA CONTRACTOR ACADOMONIA CON	Projection of the control of the con	Tax			Atlanta, GA	GA Power	Hent information:	
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	App Nr. Metals 6020B: Artimony (Sb), Assenic (As), Barlum (Ba), Beryslum (Be), Cadmium (Cd), Chromium (Cd, Cobalt (Co), Lead (Pb), Lifflum (Li), Molyddenum (Mo), Selenium (Se) 7040A: Mercuny (Hg)	Ago III Melais: Boron 6020B. Ca 6010D; Ago U1 6020B. Zn, Ag, N; V	Anions Suite 300.0 (CI, F, Suitate)	ZONIONA COMPENS	YGWA-211	YGWA-20S	YGWA-18I	UGWA-18S	YGWA-17S	**************************************	TE-DHP-3	*SWASI				CWA 2	Y6WA-47	SAMPLE ID  Character per box.  (A.2.0-91)  Sample les muses be unique  Trace	матках Оныма	CALCADO CARA CARA CARA CARA CARA CARA CARA CAR	KON Park		Н	Allanta, GA	Ι¥
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## Pace Analytical\*

### Document Name: Sample Condition Upon Receipt (SCUR)

Document No.: F-CAR-CS-033-Rev.08 Document Revised: November 15, 2021

Page 1 of 2 Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:  Asheville	Hunters	ville 🗌	Ralei	gh[	Mechanicsville Atlanta Kernersville
Sample Condition Client Name:	VU.	: ' · · · · · · · · · · · · · · · · · ·		Projec	nt#: 10#: 92587091 Due Date: 02/23/22
Courier:   Fed Ex   UPS   Pace	USPS Othe		<b>⊒</b> a	ent	CLIENT: GA-GA Power
Custody Seal Present? Yes No Seals In	itact?	∐Yes	Øn∘		Date/Initials Person Examining Contents: 122
Packing Material: Bubble Wrap Bubb Thermometer: 1R Gun ID: 1	le Bags Type of to		e Ø o Wet □E	ther Slue	Biological Tissue Frozen?  ☐ Yes ☐ No ☐ None
Cooler Temp:  Cooler Temp Corrected (°C):  Cooler Temp Corrected (°C):		. \	<b>-</b> ·		Temp should be above freezing to 6°C  Samples out of temp criteria. Samples on ice, cooling process has begun
JSDA Regulated Soil ( \( \sum \text{N/A} \), water sample \( \) Did samples originate in a quarantine zone within the United \( \sum \text{Yes} \sum \sum \text{No} \)	l States: CA	i, NY, or SC	C (check ma	ıp*) <sup>&gt;</sup>	Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No  Comments/Discrepancy:
THE RESIDENCE OF THE PROPERTY	Z∦ies	□No	□n/a	1.	46 M C 00 88 C 00 88 C 00 28 F C 00
Chain of Custody Present?	Zres Zives		□N/A	2.	AND CONTRACTOR OF THE PROPERTY
Samples Arrived within Hold Time?	Yes		□N/A	3.	A SAME AND A SAME AND
Short Hold Time Analysis (<72 hr.)?  Rush Turn Around Time Requested?	□Yes	ZIÑO	□N/A	4.	A STATE OF THE PROPERTY OF THE
Control of the state of the sta	✓Yes		□n/a	5.	
Sufficient Volume?  Correct Containers Used?  -Pace Containers Used?	Yes	□No □No	□N/A □N/A	6.	COST STORY OF THE
Containers Intact?	Yes	□No	□n/A	7.	
Dissolved analysis: Samples Field Filtered?	□Yes	[]No	[]K/A	8.	
Sample Labels Match COC?	Yes	No	□N/A	9.	
-Includes Date/Time/ID/Analysis Matrix:	1	Z.Zannanana et de de de de de de de de de de de de de	·		Company of Management of the Company
Headspace in VOA Vials (>5-6mm)?	□Yes	<u> </u>	ŊŊ/A	10.	
Trip Blank Present?	Yes	□No	⊠ñ/A	11.	
Trip Blank Custody Seals Present?  COMMENTS/SAMPLE DISCREPANCY		□No	□n/a		Field Data Required?
NUMBER OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF T	an annual properties and a late of the contraction			Lo	t ID of split containers:
CLIENT NOTIFICATION/RESOLUTION					
Person contacted:			Date/Ti	me: _	
Project Manager SCURF Review:					Date:
Project Manager SRF Review:					Date:

	App IV: Beryllium Littium 7040A:	App III N	Anions S		12	ä	10	9	8	7	6	5		3	2		ITEM#			Manhay	Phone:	Email To:		Address:	å E	Section A
	App Nº Melais 6020B: Antimon'y (Sb.), Arsenic (As), Banium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Leed (Pb), Uthium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	App III Metals: Bonor 6020B, Ca 6010D; App VII 6020B: Zh, Ag, Ni, V	Ankms Suite 300.0 (Cl. F. Suifate)	ADDITIONAL COMMENTS	YGWA-24	YOWA 20S	YGWA-181	UGWA-183	YGWA 176	YCWA-5D	UP-DUP-3	YGWA-5I	*GWA-41	Op-DUP-1	GWA-2	YGWA-47	SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample hts must be unique			vertuested Date Date:	Fax			Allanta GA	Ħ	•
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	App Nt. Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllum (Be), Cadmium (Cd), Chromium (Cr), Cobell (Co), Lead (Pb), Lithium (L), Molybdenum (Mo), Solenium (Se) (7040A: Mercury (Hg);	App III Metals: Boron 6020B, Ca 6010D; App VII 6020B; Zn, Ag, NI, V	Anions Suite 300.0 (Cl. F. Suitate)	ADDITIONAL COMMENTS	YGWA-211	YGWA-20S	YGWA-18I	UGWA-18S	YGWA-17S	YGWA-5D	UP-DUP-3	YGWA-5I	YGWA-4I	UP-DUP-1	GWA-2	YGWA-47	SAMPLE ID One Character per box. (A-Z. 8-9 / -) Sample ids must be unique		Requested Due Date:	Fax		Alana, GA	1	ĬĚ	•
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### Requested Due Date: ddress 9 App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryflium (Be), Cadminen (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (U), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Mg) App III Metals: Boron 6020B, Ca 60100; App III 6020B; Zn, Ag, Ni, V Anions Suite 300.0 (Ct, F, Suffate) رما u **c**n ITEM# 12 œ UP-EB-2 UP-FB-2 GA Power Atlanta, GA Sample kis must be unique One Character per box. (A-Z, 0-91, -) SAMPLE ADDITIONAL COMMENTS Fax MATTEIX Dening Water West West West With Product Coll Coll Whye Au Other Ticase Copy Ta: Required Project Information: Project Name: Purchase Order #: Report To: Arcadis Contacts DIAMAI RELINGUISHED BY / AFFILIATION SCS Contacts Š W MATRIX CODE (see valid codes to left) Plant Yates Pooled Upgradient Ø SAMPLE TYPE (G=GRAB C=COMP) G (DATEC) IACODES START SAMPLER HAME AND SIGNATURE PRINT Name of SAMPLER: SIGNATURE of SAMPLER: SHIII Z COLLECTED The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately. CHAIN-OF-CUSTODY / Analytical Request Document DATE ŧ 1 ı ı į ŧ ı 8 PETITION **Z** ŧ Ĭ 1 ı DATE ... SAMPLE TEMP AT COLLECTION Attention: Southern Co. Company Name: Pace Quote: Address: Pace Project Manager: # OF CONTAINERS C.T. cn 2 2 Unpreserved H2SO4 (a) HNO3 Preservatives HCI NaOH ACCEPTED BY I AFFILLATION Na2S2O3 Nicole D'Oleo Methanoi Other Y/N Analyses Test App III/IV Metals **DATE Signed:** × × CI, F, SO4 × × TDS (2540C) RAD 9315/9320 × × App I/II (gpysum only) 2 DATE Regulatory Agenc Page: Starte / Location TEMP In Residual Chlorine (Y/N) É 모모 Received on Ice (Y/N) Custody ATE CONDITIONS Q C Sealed Cooler (Y/N) Samples Intact (Y/N)

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## **Quality Control Sample Performance Assessment**

Face Analytical

Analyst: Date: Test: JC2 2/27/2022 Ra-226

Sample Matrix Spike Control Assessment

Sample Collection Date

MS/MSD 1

MS/MSD 2

Sample I.D. Sample MS I.D. Sample MSD I.D

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Worklist: Matrix: 65255 DW

MB Sample ID

Method Blank Assessment

MB concentration: MB MDC: 2349863 0.063 0.074 0.148 1.68 1.68 N/A Pass

MB Numerical Performance Indicator: MB Status vs Numerical Indicator: M/B Counting Uncertainty:

Count Date: Spike I.D.: 3/14/2022

Laboratory Control Sample Assessment

Decay Corrected Spike Concentration (pCi/mL)

Aliquot Volume (L, g, F): Target Conc. (pCi/L, g, F): Uncertainty (Calculated)

0.10 0.508 4.727 0.057 4.451

Volume Used (mL):

LCS/LCSD Counting Uncertainty (pCi/L, g, F)

Result (pCi/L, g, F)

Numerical Performance Indicator: Status vs Numerical Indicator:

Percent Recovery:

0.439 -1.22 94.16% N/A Pass 125% 75%

108.86% N/A Pass 125% 75%

0.486 1.71 0.058 5.230 0.500 4.804 24.029

Upper % Recovery Limits:

Status vs Recovery

Sample Result Counting Uncertainty (pCi/L, g, F)

MSD Spike Uncertainty (calculated) MS Spike Uncertainty (calculated):

MS Target Conc. (pCi/L, g, F):

MSD Aliquot (L, g, F):

MSD Target Conc. (pCi/L, g, F):

Spike Volume Used in MSD (mL) MS Aliquot (L, g, F)

MS/MSD Decay Corrected Spike Concentration (pCi/mL)

Spike I.D.

Spike Volume Used in MS (mL)

Sample Result

Sample Matrix Spike Result

Matrix Spike Result Counting Uncertainty (pCi/L, g, F)

19-033 0.10

Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):

MS Numerical Performance Indicator: MSD Numerical Performance Indicator: Sample Matrix Spike Duplicate Result: MS Percent Recovery:

MSD Status vs Numerical Indicator. MS Status vs Numerical Indicator MSD Status vs Recovery MS Status vs Recovery

MSD Percent Recovery:

MS/MSD Upper % Recovery Limits MS/MSD Lower % Recovery Limits

Matrix Spike/Matrix Spike Duplicate Sample Assessment Sample I.D. Sample MS I.D. Sample MSD I.D.

Duplicate Sample Assessment

Sample Matrix Spike Result:

Sample Matrix Spike Duplicate Result:

Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F) (Based on the Percent Recoveries) MS/ MSD Duplicate RPD: MS/ MSD Duplicate Status vs Numerical Indicator: Matrix Spike Result Counting Uncertainty (pCi/L, g, F): Duplicate Numerical Performance 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 Recoveries) Duplicate RPD:

NO -2.332 14.47% N/A Pass 25%

See Below: 0.257 0.257 5.30% N/A Pass 25%

Duplicate Status vs RPD: % RPD Limit:

Sample Duplicate Result Counting Uncertainty (pCi/L, g, F)

0.486

0.171 0.589 0.174

ŧ

Are sample and/or duplicate results below RL?

Duplicate Numerical Performance Indicator: Duplicate Status vs Numerical Indicator.

Duplicate Sample I.D.
Sample Result (pCi/L, g, F):
Sample Result Counting Uncertainty (pCi/L, g, F):
Sample Duplicate Result (pCi/L, g, F):

LCS65255 LCSD65255 4.451 0.439 5.230

92587081001DUP

0.621

92587081001

Sample I.D.

Comments:



1 of 1

22/1/18 WEN

Comments:

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

Jan 3/14/22

1 of 1

TAR\_65254\_W.xls
Total Alpha Radium (ENV-FRM-GBUR-0142 R0).xls

Duplicate Status vs RPD: % RPD Limit:

(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD: Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):
Are sample and/or duplicate results below RL?

Duplicate Numerical Performance Indicator: Duplicate Status vs Numerical Indicator:

0.497 4.767 0.465 NO 1.824 12.87% NI/A Pass 25%

See Below ##

1.0940元

42.81% N/A Fail\*\*\* 25%

MS/ MSD Duplicate Status vs Numerical Indicator:

MS/ MSD Duplicate Status vs RPD: % RPD Limit:

Duplicate Sample I.D.

Sample Result (pCi/L, g, F):
Sample Result Counting Uncertainty (pCi/L, g, F):
Sample Duplicate Result (pCi/L, g, F):

LCS65254 LCSD65254 5.401

92587078001 92587078001DUP 0.273 0.136 0.177 0.106

Page 64 of 64

## Face Analytical"

## Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test Ra-226

Worklist: Matrix:  MB Sample ID MB Concentration: MB Counting Uncertainty: MB MDC:	65254 DW 2349823 0.023 0.071 0.175	
MB Sample ID	2349823	
M/B Counting Uncertainty:	0.071	
MB MDC:	0.175	
MB Numerical Performance Indicator:	0.65	
MB Status vs Numerical Indicator:	NA	
MD Other to MDO	Dass	

Laboratory Control Sample Assessment

Lower % Recovery Limits:	Upper % Recovery Limits:	Status vs Recovery:	Status vs Numerical Indicator:	Percent Recovery:	Numerical Performance Indicator:	LCS/LCSD Counting Uncertainty (pCi/L, g, F):	Result (pCi/L, g, F):	Uncertainty (Calculated):	Target Conc. (pCi/L, g, F):	Aliquot Volume (L, g, F):	Volume Used (mL):	Decay Corrected Spike Concentration (pCi/mL):	Spike I.D.:	Count Date:	
75%	125%	Pass	N/A	113.63%	2.54	0.497	5.401	0.057	4.753	0.506	0.10	24.029	19-033	3/11/2022	
75%	125%	Pass	N/A	99.89%	-0.02	0.465	4.767	0.057	4.772	0.503	0.10	24.029	19-033	3/11/2022	

2349823 0.023 0.023 0.023 0.065 0.071 0.071 0.075 0.085	Analyst: Date: Worklist: Worklist: Matrix: Matrix: MB Sample ID MB concentration: MB Counting Uncertainty: MB MDC: cal Performance Indicator: tus vs Numerical Indicator:
	JC2 JC2 2/27/2022 65254 DW 2349823 0.023 0.071 0.175 0.65

Method Blank Assessment

MS/MSD Decay Corrected Spike Concentr Spike Volume Uss Spike Volume Usec MS A	
Sa	
Sample Matrix Spike Control Assessment Sample C	

Sample MS I.D. Sample MSD I.D. Spike I.D.: Spike I.D.: y Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL): Spike Volume Used in MSD (mL):
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	nike Volume I lead in MS (ml.)
	Spike Concentration (pCi/mL):
	Spike I.D.:
1.	Sample MSD I.D.

,	Sample MSD I.D.	Sample MS I.D.	Sample I.D.
		100	

Sample MSD I.D.	Sample MS I.D.	Sample I.D.	

## Collection Date:

MS/MSD 1

MS/MSD 2

## Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): MSD Numerical Performance Indicator: Sample Matrix Spike Duplicate Result: MS Numerical Performance Indicator:

## MSD Percent Recovery: MS Percent Recovery:

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MSD Status vs Recov IS/MSD Upper % Recovery Lin IS/MSD Lower % Recovery Lin
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SD Lower % Recovery Lir	SD Upper % Recovery Lir	MSD Status vs Recov	MS Status vs Recov	Status vs Numerical indic
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Sample I.D.
Sample MS I.D.
Sample MSD I.D.

Sample Matrix Spike Result
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result

Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): Duplicate Numerical Performance Indicator: (Based on the Percent Recoveries) MS/ MSD Duplicate RPD:

**Duplicate Sample Assessment** 

Matrix Spike/Matrix Spike Duplicate Sample Assessment

19-033

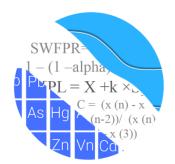
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):

Sample Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Result:

## **Appendix D**

**Statistical Analysis** 

## GROUNDWATER STATS CONSULTING



August 31, 2022

Southern Company Services Attn: Ms. Lauren Coker 241 Ralph McGill Blvd NE, Bin 10160 Atlanta, GA 30308-3374

Re: Plant Yates Ash Management Area (AMA) and R6 CCR Landfill

February 2022 Statistical Analysis

Dear Ms. Coker,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the February 2022 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
- o **Downgradient wells:** YGWC-23S, YGWC-24SA, YGWC-36A, YGWC-38, YGWC-41, YGWC-42, YGWC-43, YGWC-49
- Delineation wells: YAMW-1, YAMW-2, YAMW-3, YAMW-4, YAMW-5, PZ-35, PZ-37, and PZ-52D

Combined upgradient well data from all units at Plant Yates are utilized to construct statistical limits for Appendix III and IV parameters. When a minimum of 4 samples is available, delineation wells are evaluated using confidence intervals for the Appendix IV constituents.

Well YGWC-24SA was installed in June 2020 as a replacement well for YGWC-24S and well YGWC-36A was installed in September 2020 as a replacement well for YGWC-36 to supplement existing data for each respective well. In all cases, concentrations from both wells are below established MCLs. When a minimum of 8 samples have been collected from new well 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 there are statistically significant differences, the historical record will be truncated so that only data from new well YGWC-36A are evaluated in the confidence interval comparisons to respective Groundwater Protection Standards. Throughout this report, well YGWC-24SA refers to the combined data from both wells YGWC-24S and YGWC-24SA and well YGWC-36A refers to data from both wells YGWC-36 and YGWC-36A.

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 delineation well/constituent pairs with 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. The absence of samples from upgradient wells will affect the sample size of the combined background data set that is used for interwell limits among all units at Plant Yates; however, the calculated limits are not affected greatly.

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. In time series plots, a single reporting limit substitution is used across all wells for a given parameter since the wells are plotted as a group. 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).

### **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 on downgradient well data compared against Ground Water Protection Standards (GWPS) for each Appendix IV constituent

The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. Parametric prediction limits (or tolerance limits or confidence intervals as applicable) are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with the parametric limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The following approaches are used for handling non-detects (USEPA, 2009):

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects in background, 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.</li>
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. In some cases, the earlier portion of data are deselected prior to construction of limits to provide sensitive limits that will rapidly detect changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

### **Summary of Background Screening Conducted in April 2019**

### Outlier Analysis

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not representative of the current background data population. Suspected outliers at all wells for Appendix III and Appendix IV parameters were formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits.

Using the Tukey box plot method, several outliers were identified. When the most recent value is identified as an outlier, values are not flagged in the database at this time as they may represent a possible trend. If future values do not remain at similar concentrations, these values will be flagged as outliers and deselected. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the laboratory's Practical Quantitation Limit. However, these values are observed trace values (i.e., measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers.

During the time of the screening, none of the outliers identified by Tukey's method were flagged in the database as all values were either similar to remaining measurements within the same well and neighboring wells, or the values were reported non-detects. Subsequently, when all upgradient wells were pooled to construct statistical limits, one detected value of 6.3 s.u. for pH at well YGWA-47 (an upgradient well from AP-1) was flagged as an outlier because it was unusually high during a single event compared to all other values at neighboring wells. When any values are flagged in the database as outliers, they are plotted in a disconnected and lighter symbol on the time series graph. The accompanying data pages will display the flagged value in a lighter font as well. A substitution of the most recent reporting limit was applied when varying detection limits existed in data. When the reporting limit was higher than the CCR-rule specified levels discussed below, non-detects were substituted with one half the reporting limit.

### **Seasonality**

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

### <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 is 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. 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

913.829.1470

methods will be used for all Appendix III constituents in accordance with Georgia EPD requirements.

### **Statistical Analysis of Appendix III Parameters – February 2022**

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 2022 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The February 2022 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-42Sulfate: YGWC-38 and YGWC-42

• 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 (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 natural 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: YGWC-43

• Calcium: GWA-2, YGWA-1D, YGWA-17S, and YGWA-21I (all upgradient)

• pH: YGWA-21I (upgradient)

• Sulfate: GWA-2, YGWA-1D, YGWA-3D, YGWA-3I, and YGWA-5I (all

upgradient)

• TDS: GWA-2 (upgradient) and YGWC-43

Decreasing:

• Boron: YGWA-40 (upgradient), YGWC-38, YGWC-41, and YGWC-42

Calcium: YGWA-1I (upgradient), YGWA-5D (upgradient),

YGWA-18S (upgradient), YGWA-47 (upgradient), YGWC-38,

and YGWC-42

Sulfate: YGWA-5D (upgradient), YGWA-18I (upgradient),

YGWA-39 (upgradient), YGWA-40 (upgradient),

YGWA-47 (upgradient), YGWC-38, and YGWC-42

• TDS: YGWA-5D (upgradient), YGWA-40 (upgradient),

YGWA-47 (upgradient), YGWC-38, YGWC-41, and YGWC-42

### **Statistical Analysis of Appendix IV Parameters – February 2022**

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.

A high value of 0.072 mg/L for cobalt at upgradient well GWA-2 from the February 2022 sample event was flagged in order to maintain statistical limits that are conservative (i.e., lower) from a regulatory perspective. The reported measurements since August 2020 were previously flagged as these measurements were up to two orders of magnitude higher than remaining measurements at this well. If further studies indicate these measurements represent natural variation in groundwater quality, the values will be included in construction of interwell prediction limits. A summary of flagged outliers follows this report (Figure C).

### **Interwell Upper Tolerance Limits**

First, interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through February 2022 for Appendix IV constituents (Figure F). Parametric tolerance limits are used when data follow a normal or transformed-normal distribution. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used. When the alpha level (or false positive rate) for a nonparametric limit is shown as NaN in the results table, it indicates that the background sample size is large enough such that the resulting alpha level (or false positive rate) is too small to display in the results table.

### **Groundwater Protection Standards**

The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22, 2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, the GWPS is:

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title
- Where an MCL has not been established for a constituent, Federal and State CCR Rules specify levels for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for this sample event (Figure G).

### Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV constituents in accordance with the state requirements in each downgradient well (Figure H). Delineation 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. Confidence intervals were compared to the GWPS prepared as described above. 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:

• Beryllium: YGWC-38

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 (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 natural 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 trends:

• Selenium: YGWA-17S (upgradient)

Decreasing trends:

• Beryllium: YGWA-20S (upgradient) and YGWC-38

• Selenium: YGWC-38

Note that for beryllium at downgradient well YGWC-38, the more recent concentrations are lower than historical concentrations and do not exceed the GWPS. Therefore, a confidence interval for this well/constituent pair was constructed using the 8 most recent observations (August 2019 – February 2022) to further demonstrate the decrease in concentrations and compliance with the respective GWPS (Figure J). No confidence interval exceedance was identified for beryllium at this well.

### Addendum Report - Cobalt YGWC-33S

Downgradient well YGWC-33S was abandoned in June 2020 and exhibited an exceedance at that time of the GWPS for cobalt, which was based on the wells immediately upgradient of this unit. During this analysis, this well/constituent pair was re-evaluated using the

current method of establishing an upper tolerance limit from the pooled upgradient well data through March 2020 from across all Yates sites rather than only the wells immediately upgradient of Yates AMA-R6 (Figure K). Additionally, the resultant upper tolerance limit for cobalt was compared to the CCR-Rule specified level (as mentioned above) to determine the GWPS (Figure L). A confidence interval was then constructed and compared against the GWPS (Figure M). No exceedance was identified.

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.9.6.32j Groundwater Stats Consulting. UG

### 100% Non-Detects: Appendix IV Downgradient & Delineation

Analysis Run 4/19/2022 5:35 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Antimony (mg/L) YAMW-2, YAMW-3

Arsenic (mg/L) YAMW-2

Beryllium (mg/L) YAMW-4

Cadmium (mg/L)

YAMW-2, YAMW-3, YAMW-4, YGWC-43

Cobalt (mg/L) YGWC-23S, YGWC-38

Fluoride (mg/L) YAMW-1, YAMW-2, YAMW-3, YAMW-5

Lead (mg/L) YAMW-3

Lithium (mg/L) YAMW-2

Mercury (mg/L)

YAMW-1, YAMW-2, YAMW-3, YAMW-4, YAMW-5

Molybdenum (mg/L) YAMW-2, YAMW-5, YGWC-23S, YGWC-38, YGWC-41

Selenium (mg/L) YAMW-2, YAMW-3, YGWC-43

Thallium (mg/L)

YAMW-1, YAMW-2, YAMW-3, YAMW-4, YAMW-5, YGWC-23S, YGWC-38, YGWC-41, YGWC-42, YGWC-43

### Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 3/28/2022, 5:48 PM Constituent Well Upper Lim. Lower Lim.Date Observ. Sig. Bg N Bg Mean Std. Dev. %NDs ND Adj. Transform Alpha Method Boron (mg/L) YGWC-23S 0.16 n/a 2/10/2022 1.5 Yes 331 n/a n/a 48.04 n/a n/a 0.00004917 NP Inter (normality) 1 of 2 YGWC-38 2/10/2022 5.4 Yes 331 n/a 48.04 n/a Boron (mg/L) 0.16 0.00004917 NP Inter (normality) 1 of 2 n/a n/a n/a YGWC-41 2/8/2022 4 Yes 331 n/a n/a 48.04 n/a Boron (mg/L) 0.16 n/a 0.00004917 NP Inter (normality) 1 of 2 n/a Boron (ma/L) YGWC-42 0.16 n/a 2/10/2022 14.4 Yes 331 n/a 48.04 n/a n/a 0.00004917 NP Inter (normality) 1 of 2 n/a 2/8/2022 2.3 Boron (mg/L) YGWC-43 0.16 n/a Yes 331 n/a n/a 48.04 n/a n/a 0.00004917 NP Inter (normality) 1 of 2 YGWC-38 2/10/2022 68.9 Yes 331 n/a 0.9063 n/a 0.00004917 NP Inter (normality) 1 of 2 Calcium (mg/L) 37 n/a n/a n/a Calcium (mg/L) YGWC-42 2/10/2022 74.4 Yes 331 n/a 0.9063 n/a 0.00004917 NP Inter (normality) 1 of 2 n/a n/a n/a Sulfate (mg/L) YGWC-38 160 2/10/2022 290 Yes 331 n/a 6.042 n/a 0.00004917 NP Inter (normality) 1 of 2 Sulfate (mg/L) YGWC-42 160 n/a 2/10/2022 485 Yes 331 n/a n/a 6.042 n/a n/a 0.00004917 NP Inter (normality) 1 of 2 2/10/2022 541 223.8 Total Dissolved Solids (mg/L) YGWC-38 n/a Yes 331 10.06 2.585 0.6042 None sqrt(x) 0.0009403 Param Inter 1 of 2 223.8 2/8/2022 226 Total Dissolved Solids (mg/L) YGWC-41 Yes 331 10.06 2.585 0.6042 None 0.0009403 n/a sqrt(x) Param Inter 1 of 2 Total Dissolved Solids (mg/L) YGWC-42 223.8 n/a 2/10/2022 882 Yes 331 10.06 2.585 0.6042 None 0.0009403 Param Inter 1 of 2 sqrt(x)

Yes 331 10.06

2.585

0.6042 None

0.0009403

sqrt(x)

Param Inter 1 of 2

2/8/2022 294

Total Dissolved Solids (mg/L)

YGWC-43

223.8

n/a

### Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 3/28/2022, 5:48 PM

Constituent	<u>Well</u>	Upper Lir	m. Lower L	im.Date	Observ.	Sig. Bg N B	3g Mean	Std. Dev.	%NDs	ND Adj.	Transform	n <u>Alpha</u>	<u>Method</u>
Boron (mg/L)	YGWC-23S	0.16	n/a	2/10/2022	1.5	Yes 331 n/	n/a	n/a	48.04	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-38	0.16	n/a	2/10/2022	5.4	Yes 331 n/	n/a	n/a	48.04	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-41	0.16	n/a	2/8/2022	4	Yes 331 n/	n/a	n/a	48.04	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-42	0.16	n/a	2/10/2022	14.4	Yes 331 n/	n/a	n/a	48.04	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-43	0.16	n/a	2/8/2022	2.3	Yes 331 n/	n/a	n/a	48.04	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-49	0.16	n/a	2/8/2022	0.04ND	No 331 n/	n/a	n/a	48.04	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-24SA	0.16	n/a	2/10/2022	0.04ND	No 331 n/	n/a	n/a	48.04	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-36A	0.16	n/a	2/11/2022	0.019J	No 331 n/	n/a	n/a	48.04	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-23S	37	n/a	2/10/2022	11.8	No 331 n/	n/a	n/a	0.9063	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-38	37	n/a	2/10/2022	68.9	Yes 331 n/	n/a	n/a	0.9063	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-41	37	n/a	2/8/2022	15	No 331 n/	n/a	n/a	0.9063	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-42	37	n/a	2/10/2022	74.4	Yes 331 n/	n/a	n/a	0.9063	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-43	37	n/a	2/8/2022	9.9	No 331 n/	n/a	n/a	0.9063	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-49	37	n/a	2/8/2022	12.7	No 331 n/	n/a	n/a	0.9063	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-24SA	37	n/a	2/10/2022	2.2	No 331 n/	n/a	n/a	0.9063	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-36A	37	n/a	2/11/2022	4.6	No 331 n/	n/a	n/a	0.9063	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-23S	10.9	n/a	2/10/2022	1.9	No 331 n/	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-38	10.9	n/a	2/10/2022	4	No 331 n/	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-41	10.9	n/a	2/8/2022	3.5	No 331 n/	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-42	10.9	n/a	2/10/2022	3.3	No 331 n/	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-43	10.9	n/a	2/8/2022	2.1	No 331 n/	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-49	10.9	n/a	2/8/2022	4.2	No 331 n/	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-24SA	10.9	n/a	2/10/2022		No 331 n/		n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-36A	10.9	n/a	2/11/2022		No 331 n/		n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Fluoride (mg/L)	YGWC-23S	0.68	n/a	2/10/2022		No 400 n/		n/a	67.5	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-38	0.68	n/a	2/10/2022		No 400 n/		n/a	67.5	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-41	0.68	n/a	2/8/2022	0.1ND	No 400 n/		n/a	67.5	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-42	0.68	n/a	2/10/2022		No 400 n/		n/a	67.5	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-43	0.68	n/a	2/8/2022	0.066J	No 400 n/		n/a	67.5	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-49	0.68	n/a	2/8/2022	0.1ND	No 400 n/		n/a	67.5	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-24SA YGWC-36A	0.68	n/a	2/10/2022		No 400 n/ No 400 n/		n/a	67.5	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-36A YGWC-23S	0.68	n/a	2/11/2022 2/10/2022				n/a	67.5 0	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
pH (S.U.)	YGWC-235	8.39 8.39	4.4 4.4	2/10/2022		No 410 n/ No 410 n/		n/a n/a	0	n/a n/a	n/a n/a	0.00009834 0.00009834	NP Inter (normality) 1 of 2 NP Inter (normality) 1 of 2
pH (S.U.) pH (S.U.)	YGWC-36	8.39	4.4	2/8/2022	5.07	No 410 n/		n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-42	8.39	4.4	2/10/2022		No 410 n/		n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-43	8.39	4.4	2/8/2022	5.82	No 410 n/		n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-49	8.39	4.4	2/8/2022	5.79	No 410 n/		n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-24SA	8.39	4.4	2/10/2022		No 410 n/		n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-36A	8.39	4.4	2/11/2022		No 410 n/		n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-23S	160	n/a	2/10/2022		No 331 n/	n/a	n/a	6.042	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-38	160	n/a	2/10/2022	290	Yes 331 n/	n/a	n/a	6.042	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-41	160	n/a	2/8/2022	109	No 331 n/	n/a	n/a	6.042	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-42	160	n/a	2/10/2022		Yes 331 n/		n/a	6.042		n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-43	160	n/a	2/8/2022	133	No 331 n/		n/a	6.042		n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-49	160	n/a	2/8/2022	73.9	No 331 n/	n/a	n/a	6.042	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-24SA	160	n/a	2/10/2022	0.5ND	No 331 n/		n/a	6.042		n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-36A	160	n/a	2/11/2022	16.4	No 331 n/	n/a	n/a	6.042	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-23S	223.8	n/a	2/10/2022	180	No 331 10	10.06	2.585	0.6042	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-38	223.8	n/a	2/10/2022	541	Yes 331 10	10.06	2.585	0.6042	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-41	223.8	n/a	2/8/2022	226	Yes 331 10	10.06	2.585	0.6042	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-42	223.8	n/a	2/10/2022	882	Yes 331 10	10.06	2.585	0.6042	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-43	223.8	n/a	2/8/2022	294	Yes 331 10	10.06	2.585	0.6042	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-49	223.8	n/a	2/8/2022	164	No 331 10	10.06	2.585	0.6042	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-24SA	223.8	n/a	2/10/2022	78	No 331 10		2.585	0.6042	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-36A	223.8	n/a	2/11/2022	81	No 331 10	10.06	2.585	0.6042	None	sqrt(x)	0.0009403	Param Inter 1 of 2

### Appendix III Trend Tests - Significant Results

	Plant Yates	Client: Southern Company	Data: Plant Y	ates AMA-	R6 Printe	ed 3/28	3/2022,	22, 5:51 PM					
Constituent	Well		Slope	Calc.	Critical	Sig.	<u>N</u>	%NDs	Normality	<u>Xform</u>	<u>Alpha</u>	Method	
Boron (mg/L)	YGWA-40 (bg	1)	-0.01631	-64	-53	Yes	15	0	n/a	n/a	0.01	NP	
Boron (mg/L)	YGWC-38		-3.924	-83	-53	Yes	15	0	n/a	n/a	0.01	NP	
Boron (mg/L)	YGWC-41		-2.621	-68	-53	Yes	15	0	n/a	n/a	0.01	NP	
Boron (mg/L)	YGWC-42		-1.573	-62	-53	Yes	15	0	n/a	n/a	0.01	NP	
Boron (mg/L)	YGWC-43		0.6123	69	53	Yes	15	0	n/a	n/a	0.01	NP	
Calcium (mg/L)	YGWA-17S (b	og)	0.1305	91	68	Yes	18	0	n/a	n/a	0.01	NP	
Calcium (mg/L)	YGWA-18S (b	og)	-0.07569	-96	-68	Yes	18	0	n/a	n/a	0.01	NP	
Calcium (mg/L)	YGWA-21I (b	g)	1.174	97	68	Yes	18	0	n/a	n/a	0.01	NP	
Calcium (mg/L)	YGWA-5D (bg	g)	-1.819	-87	-68	Yes	18	0	n/a	n/a	0.01	NP	
Calcium (mg/L)	YGWC-38		-29.53	-91	-53	Yes	15	0	n/a	n/a	0.01	NP	
Calcium (mg/L)	YGWC-42		-11.96	-71	-53	Yes	15	0	n/a	n/a	0.01	NP	
Calcium (mg/L)	YGWA-47 (bg	1)	-1.677	-83	-53	Yes	15	6.667	n/a	n/a	0.01	NP	
Calcium (mg/L)	GWA-2 (bg)		3.816	78	58	Yes	16	6.25	n/a	n/a	0.01	NP	
Calcium (mg/L)	YGWA-1D (bg	g)	0.7001	77	68	Yes	18	0	n/a	n/a	0.01	NP	
Calcium (mg/L)	YGWA-1I (bg	)	-0.0958	-81	-68	Yes	18	0	n/a	n/a	0.01	NP	
Sulfate (mg/L)	YGWA-18I (b	g)	-0.1558	-69	-68	Yes	18	22.22	n/a	n/a	0.01	NP	
Sulfate (mg/L)	YGWA-39 (bg	1)	-2.833	-59	-53	Yes	15	0	n/a	n/a	0.01	NP	
Sulfate (mg/L)	YGWA-40 (bg	1)	-9.797	-77	-53	Yes	15	0	n/a	n/a	0.01	NP	
Sulfate (mg/L)	YGWA-5D (bg	g)	-3.238	-119	-68	Yes	18	0	n/a	n/a	0.01	NP	
Sulfate (mg/L)	YGWA-5I (bg	)	0.0955	100	68	Yes	18	0	n/a	n/a	0.01	NP	
Sulfate (mg/L)	YGWC-38		-157.5	-94	-53	Yes	15	0	n/a	n/a	0.01	NP	
Sulfate (mg/L)	YGWC-42		-111.1	-76	-53	Yes	15	0	n/a	n/a	0.01	NP	
Sulfate (mg/L)	YGWA-47 (bg	1)	-19.14	-92	-53	Yes	15	0	n/a	n/a	0.01	NP	
Sulfate (mg/L)	GWA-2 (bg)		18.82	81	58	Yes	16	0	n/a	n/a	0.01	NP	
Sulfate (mg/L)	YGWA-1D (bg	g)	0.9733	103	68	Yes	18	0	n/a	n/a	0.01	NP	
Sulfate (mg/L)	YGWA-3D (bg	g)	0.4345	86	68	Yes	18	0	n/a	n/a	0.01	NP	
Sulfate (mg/L)	YGWA-3I (bg	)	1.183	74	68	Yes	18	0	n/a	n/a	0.01	NP	
Total Dissolved Solids (mg/L)	YGWA-40 (bg	1)	-13.89	-55	-53	Yes	15	0	n/a	n/a	0.01	NP	
Total Dissolved Solids (mg/L)	YGWA-5D (bg	g)	-15.08	-97	-68	Yes	18	0	n/a	n/a	0.01	NP	
Total Dissolved Solids (mg/L)	YGWC-38		-210	-75	-53	Yes	15	0	n/a	n/a	0.01	NP	
Total Dissolved Solids (mg/L)	YGWC-41		-119.1	-83	-53	Yes	15	0	n/a	n/a	0.01	NP	
Total Dissolved Solids (mg/L)	YGWC-42		-162.2	-79	-53	Yes	15	0	n/a	n/a	0.01	NP	
Total Dissolved Solids (mg/L)	YGWC-43		86.07	65	53	Yes	15	0	n/a	n/a	0.01	NP	
Total Dissolved Solids (mg/L)	YGWA-47 (bg	1)	-13.78	-75	-53	Yes	15	0	n/a	n/a	0.01	NP	
Total Dissolved Solids (mg/L)	GWA-2 (bg)		24.56	61	58	Yes	16	0	n/a	n/a	0.01	NP	

### Appendix III Trend Tests - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 3/28/2022, 5:51 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	<u>N</u>	%NDs	Normality	<u>Xform</u>	<u>Alpha</u>	Method
Boron (mg/L)	YGWA-17S (bg)	0.00005921	8	68	No	18	11.11	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-26	-68	No	18	77.78	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	0.0001172	14	68	No	18	22.22	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-11	-68	No	18	88.89	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	0	-46	-68	No	18	61.11	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-39 (bg)	0.007949	41	53	No	15	6.667	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)	-0.01631	-64	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-4I (bg)	0	-5	-68	No	18	66.67	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0003037	26	68	No	18	11.11	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	0	-32	-68	No	18	61.11	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-23S	-0.03367	-16	-68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-38	-3.924	-83	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-41	-2.621	-68	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-42	-1.573	-62	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-43	0.6123	69	53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-47 (bg)	-0.0007235	-42	-53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-2 (bg)	0	17	58	No	16	62.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-14S (bg)	-0.0004307	-27	-68	No	18	11.11	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0.0003452	22	68	No	18	33.33	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1I (bg)	0	-13	-68	No	18	72.22	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-2I (bg)	0	-10	-68	No	18	77.78	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-22	-68	No	18	83.33	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	-8	-68	No	18	55.56	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	-19	-68	No	18	88.89	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.1305	91	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18I (bg)	0.02072	10	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.07569	-96	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-20S (bg)	0.04138	51	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-21I (bg)	1.174	97	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-39 (bg)	0.9186	40	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-40 (bg)	-0.7684	-45	-53	No	15	6.667	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-4I (bg)	0.009311	4	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-1.819	-87	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5I (bg)	0.06854	66	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWC-38	-29.53	-91	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWC-42	-11.96	-71	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-1.677	-83	-53	Yes	15	6.667	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	3.816	78	58	Yes	16	6.25	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-14S (bg)	-0.00868	-30	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.7001	77	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.0958	-81	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-2I (bg)	0.08578	11	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-30I (bg)	0.006518	17	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3D (bg)	0.5552	59	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3I (bg)	0.6025	52	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-17S (bg)	0.07043	47	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18I (bg)	-0.1558	-69	-68	Yes	18	22.22		n/a	0.01	NP
Sulfate (mg/L)	YGWA-18S (bg)	-0.1518	-54	-68	No	18	11.11		n/a	0.01	NP
Sulfate (mg/L)	YGWA-20S (bg)	0	36	68	No	18	66.67		n/a	0.01	NP
Sulfate (mg/L)	YGWA-21I (bg)	-0.2086	-31	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-2.833	-59	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-9.797	-77	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-4I (bg)	0.0866	30	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-3.238	-119	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.0955	100	68	Yes	18	0	n/a	n/a	0.01	NP
Canaco (mg/L)	· OTTA-OI (bg)	3.0333	.00	50	162		Ū	a	.ua	0.01	141

### Appendix III Trend Tests - All Results

Data: Plant Yates AMA-R6 Printed 3/28/2022, 5:51 PM Constituent Calc. Critical Sig. N %NDs Normality Xform <u>Alpha</u> Method YGWC-38 -157.5 -94 -53 15 0 Sulfate (mg/L) Yes n/a 0.01 NP n/a Sulfate (mg/L) YGWC-42 -111.1 -76 -53 Yes 15 0 n/a n/a 0.01 NP YGWA-47 (bg) NP Sulfate (mg/L) -19.14 -92 -53 Yes 15 0 0.01 n/a n/a Sulfate (mg/L) GWA-2 (bg) 18.82 81 58 16 0 0.01 NP Sulfate (mg/L) YGWA-14S (bg) 0.04468 68 18 0 0.01 NP 14 No n/a n/a Sulfate (mg/L) YGWA-1D (bg) 0.9733 103 18 0 0.01 ΝP YGWA-1I (bg) NP Sulfate (mg/L) -0.1386-20 -68 No 18 0 n/a n/a 0.01 Sulfate (mg/L) YGWA-2I (bg) 0.7686 No 18 0 NP Sulfate (mg/L) YGWA-30I (bg) -0.03944 -14 -68 No 18 11.1 n/a n/a 0.01 NP Sulfate (mg/L) YGWA-3D (bg) 0.4345 86 Yes 18 0 n/a 0.01 ΝP NP Sulfate (mg/L) YGWA-3I (bg) 1.183 74 68 Yes 18 0 n/a n/a 0.01 Total Dissolved Solids (mg/L) YGWA-17S (bg) 4.594 38 18 0 0.01 NP No YGWA-18I (bg) Total Dissolved Solids (mg/L) -0.8196 18 0 0.01 NP -15 -68 No n/a n/a Total Dissolved Solids (mg/L) YGWA-18S (bg) 0.4481 12 No 0 n/a n/a 0.01 NP Total Dissolved Solids (mg/L) YGWA-20S (bg) 3 147 36 68 No 18 0 n/a n/a 0.01 NP Total Dissolved Solids (mg/L) YGWA-21I (bg) 12.83 63 18 0 0.01 NP No n/a n/a Total Dissolved Solids (mg/L) YGWA-39 (bg) 28.42 53 53 No 15 0 n/a n/a 0.01 NP Total Dissolved Solids (mg/L) YGWA-40 (bg) -13.89 -53 15 0 0.01 NP -55 Yes n/a n/a Total Dissolved Solids (mg/L) YGWA-4I (bg) 0.5267 6 68 No 18 0 n/a n/a 0.01 NP Total Dissolved Solids (mg/L) YGWA-5D (ba) -15.08 -97 -68 18 0 n/a n/a 0.01 NP Yes Total Dissolved Solids (mg/L) YGWA-5I (bg) 0 -4 -68 No 18 0 n/a n/a 0.01 NP YGWC-38 -210 -75 NP Total Dissolved Solids (mg/L) -53 Yes 15 0 n/a 0.01 n/a Total Dissolved Solids (mg/L) YGWC-41 -119.1 -83 -53 15 0 ΝP YGWC-42 0 NP Total Dissolved Solids (mg/L) -162.2 -79 -53 Yes 15 n/a n/a 0.01 Total Dissolved Solids (mg/L) YGWC-43 86.07 65 53 15 0 n/a 0.01 NΡ Total Dissolved Solids (mg/L) YGWA-47 (bg) -13.78 -75 -53 15 0 0.01 NP Yes n/a n/a Total Dissolved Solids (mg/L) 0 ΝP GWA-2 (bg) Yes 16 Total Dissolved Solids (mg/L) YGWA-14S (bg) 0.8555 0 NP 20 68 18 0.01 No n/a n/a Total Dissolved Solids (mg/L) YGWA-1D (bg) 0.2702 18 0 0.01 NP Total Dissolved Solids (mg/L) YGWA-1I (bg) -2.568 -31 -68 No 18 0 n/a n/a 0.01 NP NP Total Dissolved Solids (mg/L) YGWA-2I (bg) -2.032 -29 No 18 0 0.01 Total Dissolved Solids (mg/L) YGWA-30I (bg) 2 779 NP 37 68 No 18 11.11 n/a n/a 0.01 Total Dissolved Solids (mg/L) 0.01 NP YGWA-3D (bg) 1.473 15 68 No 18 0 n/a n/a Total Dissolved Solids (mg/L) YGWA-3I (bg) 1.513 13 68 18 0 0.01 NP No n/a n/a

### Upper Tolerance Limits Summary Table

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/19/2022, 5:31 PM

Constituent	Well	Upper Lim	Lower Lim.	<u>Date</u>	Observ	. <u>Sig. Bg N</u>	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	<u>Alpha</u>	Method
Antimony (mg/L)	n/a	0.0047	n/a	n/a	n/a	n/a 353	n/a	n/a	87.25	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a 401	n/a	n/a	75.06	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	n/a	0.071	n/a	n/a	n/a	n/a 401	n/a	n/a	2.743	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a 385	n/a	n/a	80.26	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.00063	n/a	n/a	n/a	n/a 385	n/a	n/a	95.58	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0093	n/a	n/a	n/a	n/a 353	n/a	n/a	79.6	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.035	n/a	n/a	n/a	n/a 396	n/a	n/a	69.19	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	6.92	n/a	n/a	n/a	n/a 380	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	n/a	0.68	n/a	n/a	n/a	n/a 400	n/a	n/a	67.5	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	n/a	0.0013	n/a	n/a	n/a	n/a 355	n/a	n/a	84.51	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	n/a	0.03	n/a	n/a	n/a	n/a 380	n/a	n/a	26.32	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	n/a 309	n/a	n/a	93.2	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.014	n/a	n/a	n/a	n/a 344	n/a	n/a	60.17	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a 383	n/a	n/a	91.91	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a 319	n/a	n/a	96.87	n/a	n/a	NaN	NP Inter(NDs)

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		0.071	2							
Beryllium, Total (mg/L)	0.004		0.0005	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		0.0002	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 4/19/2022, 5:39 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	<u>N</u>	<u>Mean</u>	Std. Dev.	%NDs	ND Adj.	Transform	<u>Alpha</u>	Method
Beryllium (mg/L)	YGWC-38	0.005381	0.004128	0.004	Yes	16	0.004494	0.001209	0	None	x^4	0.01	Param.
Selenium (mg/L)	YGWC-38	0.249	0.073	0.05	Yes	16	0.1613	0.07941	0	None	No	0.01	NP (normality)
Selenium (mg/L)	PZ-37	0.2916	0.2149	0.05	Yes	13	0.2532	0.05155	0	None	No	0.01	Param.

### Confidence Intervals - All Results

Data: Plant Yates AMA-R6 Printed 4/19/2022, 5:39 PM Client: Southern Company Std. Dev. Constituent Well Lower Lim. Compliance <u>N</u> %NDs ND Adj Transform Alpha Method YAMW-1 0.025 No 0.005681 0.008573 NP (NDs) Antimony (mg/L) 0.006 57.14 None No 0.008 Kaplan-Meier In(x) Antimony (mg/L) YAMW-4 0.001179 0.0004933 0.006 No 5 0.001674 0.001225 40 0.01 Param. YAMW-5 0.003 0.00033 0.006 80 NP (NDs) No 5 0.002466 0.001194 Kaplan-Meier No 0.031 Antimony (ma/L) Antimony (mg/L) YGWC-23S 0.003 0.00085 0.006 No 18 0.002592 0.0009432 83.33 Kaplan-Meier No 0.01 NP (NDs) Antimony (mg/L) YGWC-38 0.003 0.00063 0.006 No 15 0.002403 0.001051 73.33 Kaplan-Meier No 0.01 NP (NDs) Antimony (mg/L) YGWC-41 0.003 0.0014 0.006 No 15 0.002893 0.0004131 93.33 Kaplan-Meier 0.01 NP (NDs) YGWC-42 0.003 0.00053 0.006 0.002835 NP (NDs) Antimony (mg/L) No 15 0.0006378 93.33 None No 0.01 Antimony (mg/L) YGWC-43 0.003 0.00031 0.006 No 15 0.002821 0.0006946 93.33 0.01 NP (NDs) YGWC-49 0.003 Antimony (mg/L) 0.0011 0.006 No 15 0.002709 0.0007763 86.67 None No 0.01 NP (NDs) Antimony (mg/L) PZ-35 0.003 0.00039 0.006 No 0.002627 0.0009865 85.71 None 0.008 NP (NDs) PZ-37 0.003 0.0014 0.002673 NP (NDs) Antimony (mg/L) 0.006 No 13 0.0008263 84.62 None No 0.01 0.002883 YGWC-24SA 0.0009 Antimony (mg/L) 0.003 0.006 No 18 0.000495 94.44 0.01 NP (NDs) YGWC-36A 0.0041 NP (normality) 0.0014 0.006 18 0.006144 Antimony (mg/L) No 0.004 44.44 None No 0.01 Arsenic (mg/L) YAMW-1 0.005 0.0023 0.01 No 0.004662 0.0009546 87.5 No 0.004 NP (NDs) Arsenic (ma/L) YAMW-4 0.002818 0.0001089 0.01 Nο 5 0.002878 0.00206 40 Kanlan-Meier No 0.01 Param 0.002618 0.0006151 0.01 No 0.001924 40 Kaplan-Meier No 0.01 Arsenic (mg/L) Param. Arsenic (mg/L) YGWC-23S 0.005 0.0025 0.01 No 20 0.004685 0.0009922 90 Kaplan-Meier No 0.01 NP (NDs) Arsenic (mg/L) YGWC-38 0.002013 0.000835 0.01 No 0.001654 0.001397 12.5 None 0.01 Param. In(x) Arsenic (mg/L) YGWC-41 0.005 0.00062 0.01 No 16 0.002964 0.002135 50 None No 0.01 NP (normality) Arsenic (mg/L) YGWC-42 0.002976 0.00149 0.01 No 16 0.002311 0.001241 12.5 None sgrt(x) 0.01 Param. Arsenic (mg/L) YGWC-43 0.005 0.00099 0.01 No 16 0.004025 0.001777 75 No 0.01 NP (NDs) None YGWC-49 0.005 0.001 0.01 NP (NDs) No 15 0.004164 0.001732 80 0.01 Arsenic (mg/L) None No 0.003556 PZ-35 0.005 0.00069 0.01 No 0.002016 62.5 NP (NDs) Arsenic (mg/L) No 0.004 PZ-37 0.005 0.01 0.002357 NP (normality) Arsenic (mg/L) 0.0008 No 13 0.001857 30.77 None No 0.01 Arsenic (mg/L) YGWC-24SA 0.005 0.0024 0.01 No 20 0.004695 0.0009501 90 None No 0.01 NP (NDs) YGWC-36A 0.005 0.0014 0.01 No 20 0.003957 0.00186 75 0.01 NP (NDs) Arsenic (mg/L) None No YAMW-1 0.0704 0.0286 2 No 0.0495 0.01972 0 0.01 Barium (mg/L) No Param 0.009472 2 YAMW-2 0.006728 5 0.0008185 Barium (mg/L) No 0.0081 0 0.01 None No Param. YAMW-4 0.0286 0.0005986 2 No 0.01086 0.008882 0 Barium (mg/L) sqrt(x) 0.01 YAMW-5 0.05689 2 Barium (mg/L) 0.02631 No 5 0.0416 0.009127 0 None No 0.01 Param. Barium (mg/L) YGWC-23S 0.04635 0.03106 2 No 20 0.03871 0.01347 0 0.01 Param. YGWC-38 0.02311 0.01783 2 16 Barium (mg/L) Nο 0.02047 0.004062 n None Nο 0.01 Param Barium (mg/L) YGWC-41 0.02906 0.02034 2 No 0.0247 0.006706 0 None No 0.01 Param. YGWC-42 0.04468 0.03077 2 16 0.03773 0.01069 Barium (mg/L) No 0 None No 0.01 Param Barium (mg/L) YGWC-43 0.034 0.01762 2 No 0.01259 0 No 0.01 Param. None Barium (mg/L) YGWC-49 0.07861 0.0694 2 No 15 0.07401 0.0068 0 None No 0.01 Param. Barium (mg/L) PZ-35 0.074 0.032 2 No 8 0.04763 0.01732 0 None No 0.004 NP (normality) Barium (mg/L) P7-37 0.05511 0.03813 2 No 13 0.04662 0.01142 0 No 0.01 Param 0.025 2 0 Barium (mg/L) YGWC-24SA 0.019 No 20 0.02103 0.003574 No 0.01 NP (normality) None Barium (mg/L) YGWC-36A 0.04377 0.03278 2 No 20 0.03828 0.009683 0 No 0.01 Param. None YAMW-1 0.0005 0.000058 0.004 0.0003354 0.0001982 50 0.004 NP (normality) Beryllium (mg/L) No None No Beryllium (mg/L) YAMW-2 0.0005 0.000051 0.004 No 5 0.000238 0.0002393 40 No 0.031 NP (normality) Bervllium (ma/L) YAMW-5 0.00017 0.000092 0.004 No 6 0.000131 0.00002839 0 0.01 Param. No None Beryllium (mg/L) YGWC-23S 0.00023 0.000081 0.004 No 20 0.0002108 0.000176 25 No 0.01 NP (normality) None YGWC-38 Bervllium (ma/L) 0.005381 0.004128 0.004 16 0.004494 Yes 0.001209 0 x^4 0.01 Param. None YGWC-41 0.0037 0.0009737 Beryllium (mg/L) 0.0016 0.004 No 16 0.0028 0 0.01 NP (normality) YGWC-42 0.0005 0.000067 0.004 16 0.0003416 0.0002115 0.01 NP (NDs) Beryllium (mg/L) No 62.5 None No YGWC-43 0.00053 0.00029 0.004 No 16 0.0004075 0.0001423 37.5 NP (normality) Beryllium (mg/L) None No 0.01 Beryllium (mg/L) YGWC-49 0.00015 0.0001 0.004 No 15 0.00014 0.0001009 6.667 No 0.01 NP (normality) None PZ-35 Beryllium (mg/L) 0.000479 0.000269 0.004 No 0.0004122 0.000117 22.22 0.01 Param. PZ-37 0.0004733 0.0004062 0.0002152 Beryllium (mg/L) 0.0002084 0.004 No 13 15.38 Kaplan-Meier sart(x) 0.01 Param. Beryllium (mg/L) YGWC-24SA 0.00016 0.0001 0.004 No 20 0.000178 0.0001413 15 None No 0.01 NP (normality) Beryllium (mg/L) YGWC-36A 0.0003309 0.000206 0.004 No 20 0.0002685 0.0001099 5 None No 0.01 Param. YAMW-1 Cadmium (mg/L) 0.0005 0.005 No 0.0002938 0.0001734 37.5 No 0.004 NP (normality) YAMW-5 0.0002574 0.0001586 0.000208 0.0000295 Param Cadmium (mg/L) 0.005 Nο n None Nο 0.01

### Confidence Intervals - All Results

Data: Plant Yates AMA-R6 Client: Southern Company Printed 4/19/2022, 5:39 PM Std. Dev. Constituent Well Compliance %NDs ND Adj Transform Alpha Method Upper Lim. Lower Lim. N Cadmium (mg/L) YGWC-23S 0.0005 0.00007 0.005 20 0.0004785 0.00009615 95 NP (NDs) No None No 0.01 0.0007141 Cadmium (mg/L) YGWC-38 0.0029 0.0013 0.005 No 16 0.002194 0 None No 0.01 NP (normality) YGWC-41 0.0005 0.00015 0.005 0.0001516 Cadmium (mg/L) 16 0.0002913 31.25 0.01 NP (normality) No None No Cadmium (mg/L) YGWC-42 0.0005 0.0002 0.005 No 16 0.0003919 0.0001608 50 No 0.01 NP (normality) Cadmium (mg/L) YGWC-49 0.0005 0.00007 0.005 No 15 0.0004713 0.000111 93.33 0.01 NP (NDs) None No Cadmium (mg/L) PZ-35 0.0005 0.00016 0.005 No 8 0.0004575 0.0001202 NP (NDs) 87.5 None No 0.004 PZ-37 0.0007228 0.000308 Cadmium (mg/L) 0.005 No 13 0.0005438 0.0002744 15.38 Kaplan-Meier No 0.01 Param. Cadmium (mg/L) YGWC-36A 0.0005 0.00017 0.005 No 20 0.000269 0.0001585 30 NP (normality) YAMW-1 Chromium (mg/L) 0.005 0.00058 0.1 No 0.001563 0.001702 16.67 None No 0.0155 NP (normality) Chromium (mg/L) YAMW-2 0.002983 0.00002161 0.1 No 0.002202 0.001797 20 Kaplan-Meier No 0.01 Param. YAMW-4 0.005 0.004114 NP (NDs) Chromium (mg/L) 0.00057 0.1 No 5 0.001981 80 Kaplan-Meier No 0.031 YAMW-5 0.005 0.00432 80 NP (NDs) Chromium (mg/L) 0.0016 0.1 No 0.001521 Kaplan-Meier 0.031 YGWC-23S 0.005 Chromium (mg/L) 0.0008 16 0.003509 0.002005 Kaplan-Meier No NP (NDs) 0.1 No 62.5 0.01 Chromium (mg/L) YGWC-38 0.005 0.00065 0.1 No 0.004447 0.001512 87.5 Kaplan-Meier No 0.01 NP (NDs) Chromium (mg/L) YGWC-41 0.005 0.00039 0.1 Nο 16 0.004712 0.001152 93 75 None Nο 0.01 NP (NDs) Chromium (mg/L) YGWC-42 0.005 0.1 No 0.004208 81.25 0.01 NP (NDs) No YGWC-43 Chromium (mg/L) 0.005 0.00071 0.1 No 16 0.003911 0.001949 75 None No 0.01 NP (NDs) Chromium (mg/L) YGWC-49 0.0021 0.0014 0.1 No 0.001971 0.0009059 7.143 None No 0.01 NP (normality) Chromium (mg/L) PZ-35 0.005 0.0006 0.1 No 6 0.002185 0.002192 33.33 None No 0.0155 NP (normality) Chromium (mg/L) PZ-37 0.005 0.0017 0.1 No 13 0.0042 0.001532 76.92 None No 0.01 NP (NDs) Chromium (mg/L) YGWC-24SA 0.005 0.0011 0.1 No 16 0.004259 0.001594 81.25 None Nο 0.01 NP (NDs) YGWC-36A 0.005 NP (NDs) Chromium (mg/L) 0.0013 0.1 No 16 0.004155 0.001615 75 No 0.01 None 0.02551 YAMW-1 0.007375 0.035 No 9 0.01644 0.009964 Cobalt (mg/L) 22.22 Kaplan-Meier No 0.01 Param. YAMW-2 0.002488 0.035 Cobalt (mg/L) 0.0002417 No 5 0.001154 0.0007745 0 None sqrt(x) 0.01 Param. Cobalt (mg/L) YAMW-4 0.001001 0.0001991 0.035 No 5 0.0006 0.0002393 0 No 0.01 Param. Cobalt (mg/L) YAMW-5 0.005 0.00077 0.035 No 5 0.004154 0.001892 80 0.031 NP (NDs) None No Cobalt (mg/L) YGWC-41 0.005 0.00069 0.035 No 16 0.003899 0.001976 75 NP (NDs) No 0.01 0.0025 YGWC-42 0.0017 0.035 0.002119 0.000862 NP (normality) Cobalt (mg/L) 16 0.01 No 6.25 None No YGWC-43 0.005 0.0015 0.035 0.003184 0.001786 NP (normality) Cobalt (mg/L) No 16 43.75 0.01 Cobalt (mg/L) YGWC-49 0.005 0.0006 0.003833 NP (NDs) 0.035 No 15 0.002003 73.33 None No 0.01 Cobalt (mg/L) PZ-35 0.0059 0.005 0.035 No 0.005112 0.0003182 87.5 0.004 NP (NDs) P7-37 0.01174 0.004444 0.008092 Cobalt (mg/L) 0.035 Nο 13 0.004907 n None Nο 0.01 Param Cobalt (mg/L) YGWC-36A 0.005 0.00086 0.035 No 0.003885 0.001984 75 None No 0.01 NP (NDs) YAMW-1 0.7655 0.2653 0.2105 Combined Radium 226 + 228 (pCi/L) 6.92 No 0.5154 0 None No 0.01 Param Combined Radium 226 + 228 (pCi/L) YAMW-2 0.9255 -0.1666 6.92 No 0.3795 0.3259 0 No 0.01 Param. None Combined Radium 226 + 228 (pCi/L) YAMW-4 1.466 0.02573 6.92 No 5 0.746 0.4298 0 None No 0.01 Param. Combined Radium 226 + 228 (pCi/L) YAMW-5 1.602 0.4665 6.92 No 5 1.034 0.3389 0 None No 0.01 Param. Combined Radium 226 + 228 (pCi/L) YGWC-23S 0.7741 0.3606 6.92 No 20 0.5674 0.3641 0 Nο 0.01 Param. None Combined Radium 226 + 228 (pCi/L) YGWC-38 1.242 0.4977 0 0.5941 6.92 No 16 0.9179 0.01 No Param. None Combined Radium 226 + 228 (pCi/L) YGWC-41 1.234 0.589 6.92 No 16 0.9627 0.5633 0 x^(1/3) 0.01 Param. None Combined Radium 226 + 228 (pCi/L) YGWC-42 2.714 1.139 6.92 16 1.926 1.21 0 0.01 No None No Param. Combined Radium 226 + 228 (pCi/L) YGWC-43 3.591 1 399 6.92 No 16 2.649 1.818 0 0.01 Param. None sqrt(x) Combined Radium 226 + 228 (pCi/L) YGWC-49 1.09 0.4612 6.92 No 15 0.7755 0.4638 0 0.01 No Param. None Combined Radium 226 + 228 (pCi/L) P7-35 1.106 0.1853 6.92 No 0.6456 0.3875 0 No 0.01 None Param. Combined Radium 226 + 228 (pCi/L) PZ-37 1.995 1.306 6.92 13 0.4631 0 No 1.651 No 0.01 Param. None 0.7755 Combined Radium 226 + 228 (pCi/L) YGWC-24SA 0.4933 6.92 20 0.2484 No 0.6344 0 0.01 Combined Radium 226 + 228 (pCi/L) YGWC-36A 1.04 0.5384 6.92 No 20 0.7893 0.4419 0 None No 0.01 Param. Fluoride (mg/L) YAMW-4 0.14 No 5 0.116 0.02191 60 NP (NDs) 0.1 4 None No 0.031 Fluoride (ma/L) YGWC-23S 0.12 0.049 4 No 21 0.09519 0.01926 85.71 None 0.01 NP (NDs) No YGWC-38 Fluoride (mg/L) 0.21 0.034 4 No 17 0.1544 0.112 0.01 NP (NDs) YGWC-41 17 NP (NDs) Fluoride (mg/L) 0.11 0.1 4 No 0.1006 0.002425 88.24 None No 0.01 Fluoride (mg/L) YGWC-42 0.07 No 17 0.08771 0.02476 76.47 None 0.01 NP (NDs) Fluoride (mg/L) YGWC-43 0.1065 0.05855 4 No 17 0.1041 0.05169 23.53 Kaplan-Meier  $x^{(1/3)}$ 0.01 Param. YGWC-49 Fluoride (mg/L) 0.14 0.09 4 No 0.09938 0.02516 62.5 NP (NDs) P7-37 0.31 4 Nο 13 0 1654 0 1131 NP (NDs) Fluoride (ma/L) 0.1 69 23 None Nο 0.01

### Confidence Intervals - All Results

Client: Southern Company

Data: Plant Yates AMA-R6

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Std. Dev. Constituent Well Lower Lim. Compliance <u>N</u> %NDs ND Adj Transform Alpha Method Upper Lim. Sig. Mean YGWC-24SA 0.1 No 21 0.09671 0.01461 90.48 0.01 NP (NDs) Fluoride (mg/L) None No Fluoride (mg/L) YGWC-36A 0.1 0.09 No 21 0.09314 0.03137 66.67 None No 0.01 NP (NDs) YAMW-1 0.001 0.00019 0.015 0.0008843 0.0003062 85.71 NP (NDs) Lead (mg/L) No 0.008 None No Lead (mg/L) YAMW-2 0.001 0.00008 0.015 No 0.000638 0.0004958 60 No 0.031 NP (NDs) Lead (mg/L) YAMW-4 0.0006106 1.2e-7 0.015 No 5 0.0005832 0.0004119 40 Kaplan-Meier No 0.01 Param. Lead (mg/L) YAMW-5 0.0001361 0.00003504 0.015 No 5 0.0004448 0.0005074 40 Kaplan-Meier In(x) 0.01 Param. YGWC-23S 0.001 0.00044 0.015 18 0.0008237 NP (NDs) Lead (mg/L) No 0.0003468 77.78 Kaplan-Meier No 0.01 Lead (mg/L) YGWC-38 0.001 0.0001 0.015 No 16 0.0008313 0.0003628 81.25 0.01 NP (NDs) 0.0011 Lead (mg/L) YGWC-41 0.00012 0.015 No 16 0.0007848 0.0004016 68.75 None No 0.01 NP (NDs) Lead (mg/L) YGWC-42 0.001 0.00009 0.015 No 0.0007744 0.0004047 75 None No 0.01 NP (NDs) NP (NDs) YGWC-43 0.001 0.00008 0.015 16 0.0008847 0.0003151 Lead (mg/L) No 87.5 None No 0.01 YGWC-49 0.000059 0.015 0.0009373 0.000243 Lead (mg/L) 0.001 No 15 93.33 0.01 NP (NDs) PZ-35 0.001 0.000087 0.0007481 0.015 0.0004305 NP (NDs) Lead (mg/L) No 71.43 None No 0.008 Lead (mg/L) PZ-37 0.001 0.000088 0.015 No 0.0006672 0.0004396 61.54 No 0.01 NP (NDs) Lead (mg/L) YGWC-24SA 0.001 0.00036 0.015 Nο 18 0.0009118 0.0002619 88 89 None Nο 0.01 NP (NDs) YGWC-36A 0.0004876 0.0001631 0.015 No 0.0004303 22.22 Kaplan-Meier 0.01 Param. Lead (mg/L) sart(x) 0.02035 Lithium (mg/L) YAMW-1 0.005228 0.04 No 0.01279 0.007132 12.5 None No 0.01 Param. Lithium (mg/L) YAMW-4 0.04078 0.01402 0.04 No 5 0.0274 0.007987 0 None No 0.01 Param. Lithium (mg/L) YAMW-5 0.01705 0.01295 0.04 No 5 0.015 0.001225 0 None No 0.01 Param Lithium (mg/L) YGWC-23S 0.0029 0.0018 0.04 No 20 0.002893 5 None No 0.01 NP (normality) Lithium (mg/L) YGWC-38 0.008794 0.007443 0.04 No 16 0.008119 0.001038 0 None Nο 0.01 Param. YGWC-41 0.0044 0.0023 0.04 NP (normality) Lithium (mg/L) No 16 0.00405 0.003054 6.25 No 0.01 None Lithium (mg/L) YGWC-42 0.04879 0.03226 0.04 No 16 0.04053 0.0127 0 0.01 Param. No YGWC-43 0.01839 0.01168 0 Lithium (mg/L) 0.04 No 16 0.01503 0.005157 None No 0.01 Param. Lithium (mg/L) YGWC-49 0.0038 0.0035 0.04 No 15 0.003693 0.0002314 0 None No 0.01 NP (normality) Lithium (mg/L) PZ-35 0.015 0.001 0.04 No 0.00435 0.005458 12.5 0.004 NP (normality) None No Lithium (mg/L) P7-37 0.02955 0.02194 0.04 No 0.02575 0.005122 7.692 0.01 Param. 13 No 0.006428 Lithium (mg/L) YGWC-36A 0.00297 20 0.005019 0.003162 0.04 No 5 0.01 Param. None sart(x) YGWC-23S 0.0002 0.00015 0.002 0.0001899 0.00002849 86.67 NP (NDs) Mercury (mg/L) No 15 No 0.01 YGWC-38 0.0002 0.00008 13 0.0001782 NP (NDs) Mercury (mg/L) 0.002 No 0.00005386 84.62 None No 0.01 Mercury (mg/L) YGWC-41 0.0002 0.00006 0.002 No 0.0001892 0.00003883 92.31 0.01 NP (NDs) YGWC-42 0.0002 0.000048 0.0001883 0.00004216 NP (NDs) Mercury (mg/L) 0.002 Nο 13 92 31 None Nο 0.01 Mercury (mg/L) YGWC-43 0.0002 0.00009 0.002 No 0.0001802 0.00004906 84.62 No 0.01 NP (NDs) None NP (NDs) YGWC-49 0.0002 0.00014 0.002 12 0.0001834 0.00004223 Mercury (mg/L) No 83.33 None No 0.01 Mercury (mg/L) 0.0002 0.00006 0.002 No 0.0001892 0.00003883 92.31 0.01 NP (NDs) Molybdenum (mg/L) YAMW-1 0.004175 0.0009024 0.1 No 0.003665 0.003321 16.67 Kaplan-Meier sqrt(x) 0.01 Param. Molybdenum (mg/L) YAMW-4 0.008881 0.004799 0.1 No 5 0.00684 0.001218 0 None Nο 0.01 Param. Molybdenum (mg/L) YGWC-42 0.01 0.00085 0.1 No 16 0.004692 0.004295 37.5 Nο 0.01 NP (normality) YGWC-43 Molybdenum (mg/L) 0.01 0.0012 0.1 No 16 0.005481 0.004286 0.01 NP (normality) 43.75 None No Molybdenum (mg/L) YGWC-49 0.01 0.0007 0.1 No 14 0.009336 0.002486 92.86 No 0.01 NP (NDs) Molybdenum (mg/L) PZ-35 0.01 0.0019 0.1 0.00865 0.003307 83.33 0.0155 NP (NDs) No None No Molybdenum (mg/L) P7-37 0.01 0.0015 0.1 No 13 0.004931 0.004184 38.46 No 0.01 NP (normality) Molvbdenum (ma/L) YGWC-36A 0.01 0.0025 0.1 No 16 0.007437 0.003629 62.5 0.01 NP (NDs) No None Selenium (mg/L) YAMW-1 0.005 0.0019 0.05 No 8 0.004125 0.001273 62.5 No 0.004 NP (NDs) None YAMW-4 0.0183 0.0002687 0.05 6 0.01097 0.007869 Param. Selenium (ma/L) No 33.33 Kaplan-Meier sart(x) 0.01 0.05067 YAMW-5 0.06572 0.03336 0.05 0.01337 0 Selenium (mg/L) No x^2 0.01 YGWC-23S 0.0392 0.02767 0.05 No 20 0.03344 0.01015 0 0.01 Selenium (mg/L) None No Param. YGWC-38 0.249 Selenium (ma/L) 0.073 0.05 Yes 16 0.1613 0.07941 0 No 0.01 NP (normality) Selenium (mg/L) YGWC-41 0.06255 0.04042 0.05 No 16 0.05149 0.01701 0 No 0.01 Param. None YGWC-42 0.05555 Selenium (mg/L) 0.04084 0.05 No 16 0.04819 0.0113 0 0.01 Param. YGWC-49 0.008701 0.006765 15 0.007733 Selenium (mg/L) 0.05 No 0.001429 6.667 None No 0.01 Param. Selenium (mg/L) PZ-35 0.005 0.0016 0.05 No 0.004325 0.001305 75 None No 0.004 NP (NDs) Selenium (mg/L) PZ-37 0.2916 0.2149 0.05 Yes 13 0.2532 0.05155 0 No 0.01 Param. Selenium (mg/L) YGWC-36A 0.002616 0.00179 0.05 No 20 0.00344 0.001421 40 Kaplan-Meie 0.01 Thallium (mg/L) YGWC-49 0.001 0.00009 0.002 Nο 0.00093 0.0002524 NP (NDs) 13 92 31 None Nο 0.01

# Appendix IV Trend Tests - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/19/2022, 5:44 PM Constituent Well Calc. Critical Sig. N %NDs Normality Xform <u>Alpha</u> Method Slope Beryllium (mg/L) YGWA-20S (bg) -0.0005346 -112 -87 Yes 21 47.62 n/a n/a 0.01 YGWC-38 -0.0007575 -90 -58 Beryllium (mg/L) Yes 16 0 n/a n/a 0.01 NP Selenium (mg/L) YGWA-17S (bg) 0.0004358 94 81 Yes 20 70 n/a n/a 0.01 NP -0.055 -107 -58 Yes 16 0 n/a n/a YGWC-38 Selenium (mg/L) 0.01 NP

### Appendix IV Trend Tests - All Results

Data: Plant Yates AMA-R6 Constituent Calc. Critical Sig. N <u>%NDs</u> <u>Normality</u> <u>Xform</u> <u>Alpha</u> Method Beryllium (mg/L) YGWA-17S (bg) -0.0000159 -69 -81 No 20 40 0.01 NP n/a n/a 0 Beryllium (mg/L) YGWA-18I (bg) 0 87 No 21 100 n/a n/a 0.01 NP -0.0005455 0.01 NP Beryllium (mg/L) YGWA-18S (ba) -67 -87 No 21 42.86 n/a n/a Beryllium (mg/L) YGWA-20S (bg) -0.0005346 -112 -87 Yes 21 47.62 0.01 ΝP Beryllium (mg/L) YGWA-21I (bg) 0 0 87 21 100 0.01 NP No n/a n/a Beryllium (mg/L) YGWA-39 (bg) 0 -10 -63 No 17 94.12 n/a n/a 0.01 NP -0.00001094 NP Beryllium (mg/L) YGWA-40 (bg) -24 -63 No 17 11.76 n/a n/a 0.01 Beryllium (mg/L) YGWA-4I (bg) 0 0 87 No 21 100 0.01 NP Beryllium (mg/L) 0 NP YGWA-5D (bg) 0 87 No 21 100 n/a n/a 0.01 Beryllium (mg/L) YGWA-5I (bg) 0 0 No 21 100 n/a n/a 0.01 NP Beryllium (mg/L) YGWC-38 0 NP -0.0007575 -90 -58 Yes 16 n/a n/a 0.01 YGWA-47 (bg) Beryllium (mg/L) 0 -25 -48 14 64.29 0.01 NP No 0 NP Beryllium (mg/L) GWA-2 (bg) 0 37 0.01 199 No 100 n/a n/a Beryllium (mg/L) YGWA-14S (bg) 0 -19 -74 No 19 10.53 n/a n/a 0.01 NP YGWA-1D (bg) Beryllium (mg/L) 0 0 74 No 19 100 n/a n/a 0.01 NP Beryllium (mg/L) YGWA-1I (bg) 0 0 74 No 19 100 0.01 NP n/a n/a 0 Beryllium (mg/L) YGWA-2I (bg) Ω 74 No 19 100 n/a n/a 0.01 NP 0 NP Beryllium (mg/L) YGWA-30I (bg) -13 No 19 89.47 n/a n/a 0.01 0 Beryllium (mg/L) YGWA-3D (bg) 0 74 No 19 100 n/a n/a 0.01 NP Beryllium (mg/L) YGWA-3I (bg) 0 -10 -74 No 19 94.74 n/a n/a 0.01 NΡ Selenium (mg/L) YGWA-17S (bg) 0.0004358 94 81 Yes 20 70 n/a n/a 0.01 NP YGWA-18I (bg) 0 0 87 NP Selenium (mg/L) No 21 100 n/a 0.01 n/a Selenium (mg/L) YGWA-18S (bg) 0 0 87 No 21 100 0.01 NΡ 0 YGWA-20S (bg) 0 NP Selenium (mg/L) 87 No 21 100 n/a n/a 0.01 Selenium (mg/L) YGWA-21I (bg) 0 37 87 No 21 90.48 n/a 0.01 NP Selenium (mg/L) YGWA-39 (bg) 0 2 63 No 17 94.12 0.01 NP n/a n/a Selenium (mg/L) YGWA-40 (bg) -0.000656 -47 -63 No 17 35.29 0.01 NP NP YGWA-4I (bg) 0 21 0.01 Selenium (mg/L) 3 87 90.48 No n/a n/a Selenium (mg/L) YGWA-5D (bg) 0 0 87 No 21 100 0.01 NP YGWA-5I (bg) 0 NP Selenium (mg/L) 18 87 No 21 95.24 n/a n/a 0.01 Selenium (mg/L) YGWC-38 -0.055 -107 Yes 16 0 n/a n/a 0.01 NP YGWA-47 (bg) 0 83 33 NP Selenium (mg/L) 17 38 Nο 12 n/a n/a 0.01 0 0 NP Selenium (mg/L) GWA-2 (bg) 199 No 37 100 n/a n/a 0.01 YGWA-14S (bg) 0 74 0.01 NP Selenium (mg/L) 42 No 19 68.42 n/a n/a 0 NP Selenium (mg/L) YGWA-1D (bg) 0 No 19 100 n/a n/a 0.01 Selenium (mg/L) YGWA-1I (bg) 0 0 74 No 19 100 n/a n/a 0.01 NP Selenium (mg/L) YGWA-2I (bg) 0 0 74 No 19 100 n/a n/a 0.01 NP Selenium (mg/L) YGWA-30I (bg) 0 0 74 No 19 100 n/a n/a 0.01 NP YGWA-3D (bg) 0 0 74 100 0.01 NP Selenium (mg/L) No 19 n/a n/a Selenium (mg/L) YGWA-3I (bg) 0 0 74 No 19 100 n/a n/a 0.01 NP NP Selenium (mg/L) PZ-37 -0.003058 -43 No 13 0 0.01 n/a n/a

# Confidence Interval - Beryllium YGWC-38

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/28/2022, 1:35 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	<u>N</u>	Mean	Std. Dev.	%NDs	ND Adj.	Transform	n <u>Alpha</u>	Method
Beryllium (mg/L)	YGWC-38	0.004376	0.002624	0.004	No	8	0.003488	0.0008576	0	None	sqrt(x)	0.01	Param.

# Upper Tolerance Limit Summary Table - Cobalt

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/28/2022, 1:18 PM

Constituent	Well	Upper Lii	m. Lower Lir	m. Date	Obse	rv. Sig. Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	<u>Alpha</u>	Method
Cobalt (mg/L)	n/a	0.035	n/a	n/a	n/a	n/a 307	n/a	n/a	69.71	n/a	n/a	NaN	NP Inter(NDs)

YATES AMA-R6 GWPS - JUNE 2020						
		CCR-Rule	Background			
Constituent Name	MCL	Specified	Limit	GWPS		
Cobalt, Total (mg/L)		0.006	0.035	0.035		

<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

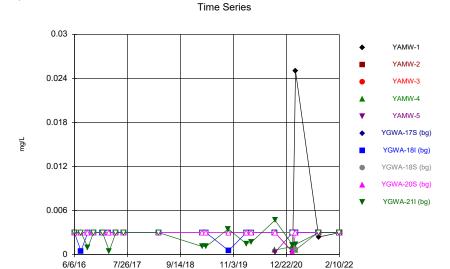
<sup>\*</sup>GWPS = Groundwater Protection Standard

# Confidence Interval - Cobalt YGWC-33S

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/28/2022, 1:23 PM

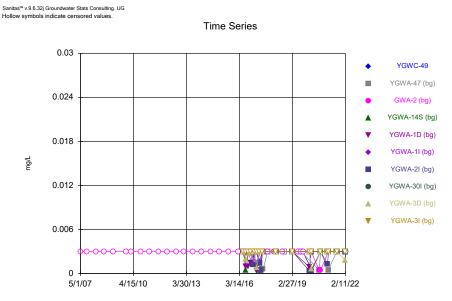
Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	<u>N</u>	Mean	Std. Dev.	%NDs	ND Adj.	Transform	<u>Alpha</u>	Method
Cobalt (mg/L)	YGWC-33S	0.02603	0.01477	0.035	No	15	0.0204	0.008309	0	None	No	0.01	Param.

# FIGURE A.

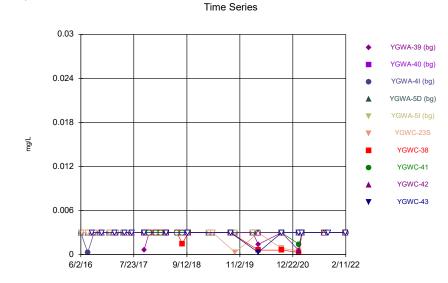


Constituent: Antimony Analysis Run 4/19/2022 5:07 PM

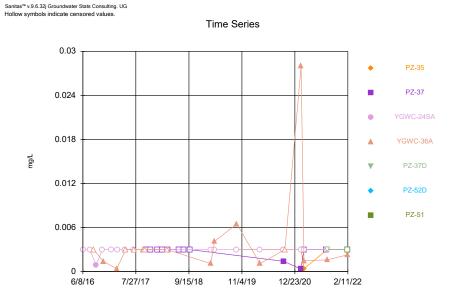
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Antimony Analysis Run 4/19/2022 5:07 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



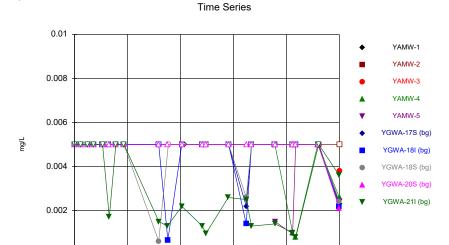
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Antimony Analysis Run 4/19/2022 5:07 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

6/6/16

7/26/17



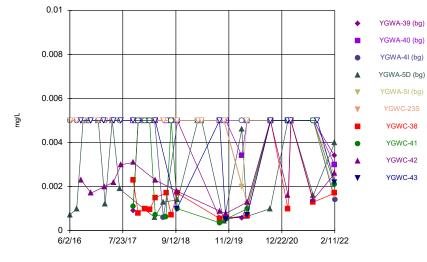
Constituent: Arsenic Analysis Run 4/19/2022 5:07 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

11/3/19

12/22/20

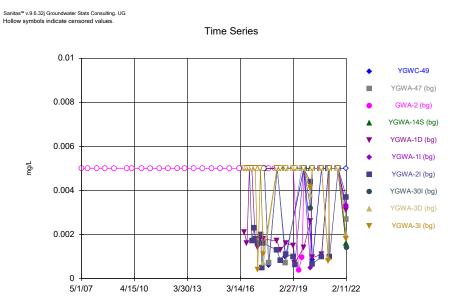
9/14/18

2/10/22

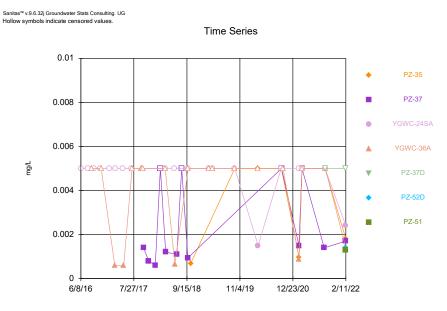


Time Series

Constituent: Arsenic Analysis Run 4/19/2022 5:07 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

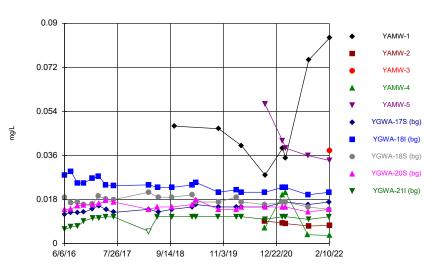


Constituent: Arsenic Analysis Run 4/19/2022 5:07 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

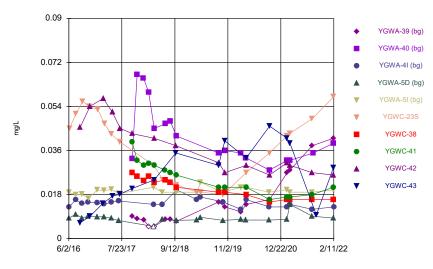


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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



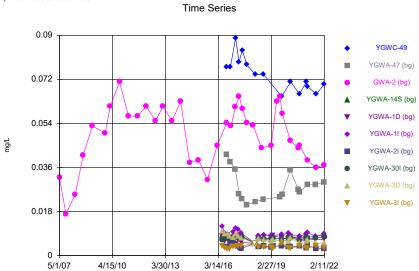


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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



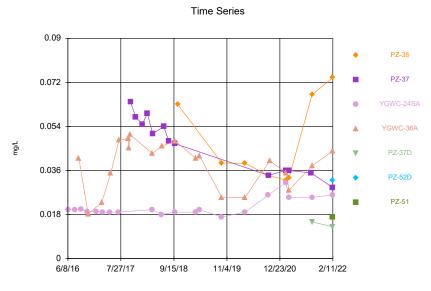
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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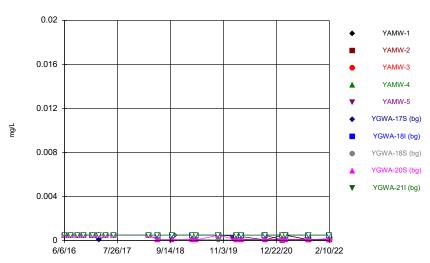
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

#### Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

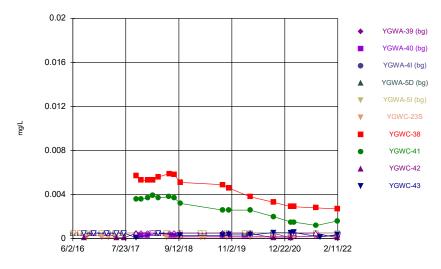


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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



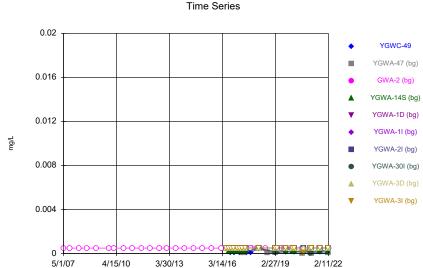


Constituent: Beryllium Analysis Run 4/19/2022 5:07 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Beryllium Analysis Run 4/19/2022 5:07 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

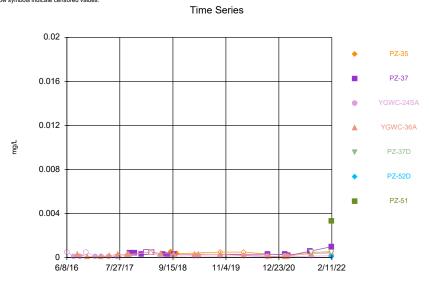
### Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Constituent: Beryllium Analysis Run 4/19/2022 5:07 PM

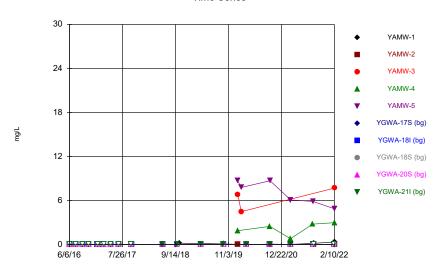
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

### Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

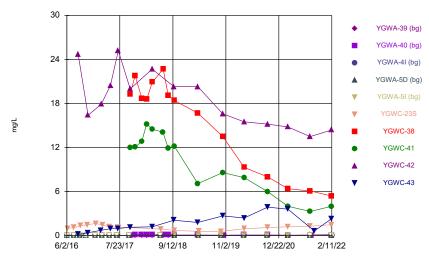


Constituent: Beryllium Analysis Run 4/19/2022 5:07 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



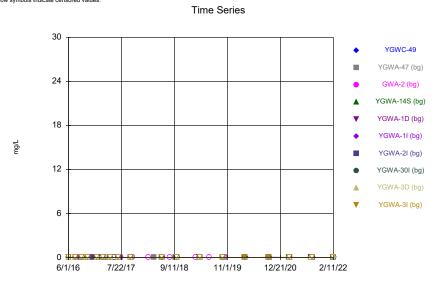


Constituent: Boron Analysis Run 4/19/2022 5:07 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Boron Analysis Run 4/19/2022 5:07 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

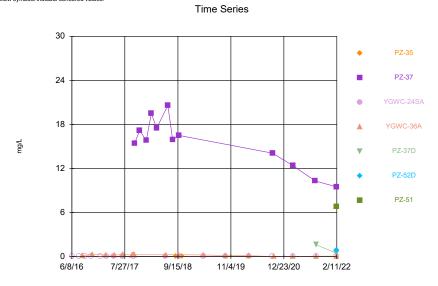
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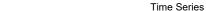
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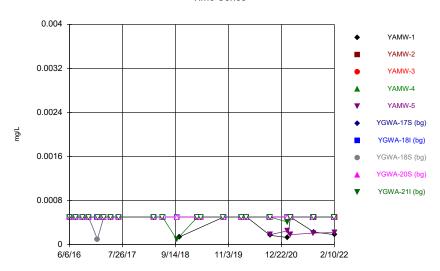
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

#### Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



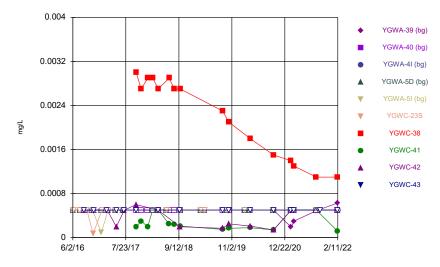
Constituent: Boron Analysis Run 4/19/2022 5:07 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6





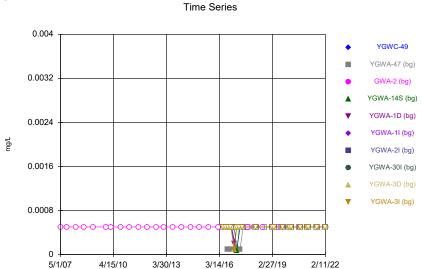
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



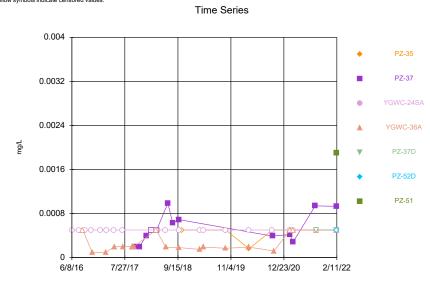
Constituent: Cadmium Analysis Run 4/19/2022 5:07 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

### Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

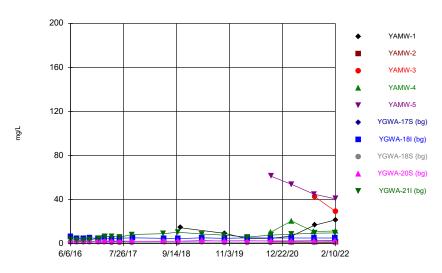


Constituent: Cadmium Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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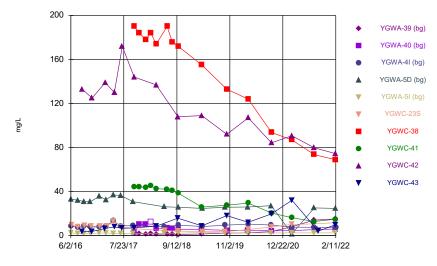


Constituent: Cadmium Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



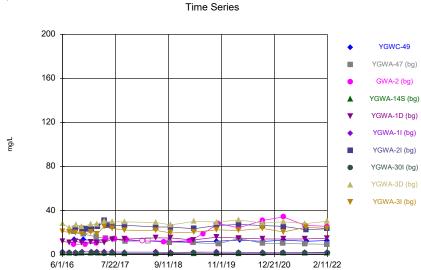
Constituent: Calcium Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

### Time Series



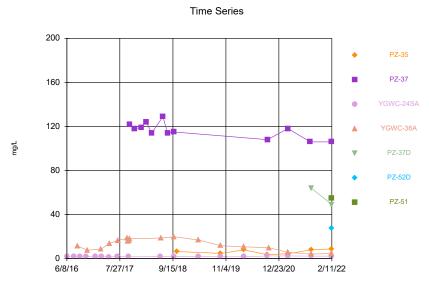
Constituent: Calcium Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

### Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



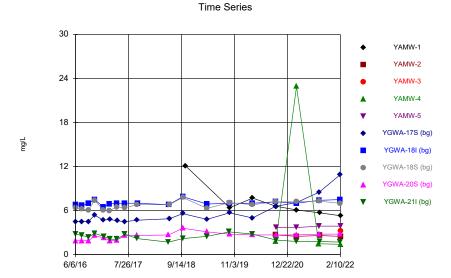
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

#### Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

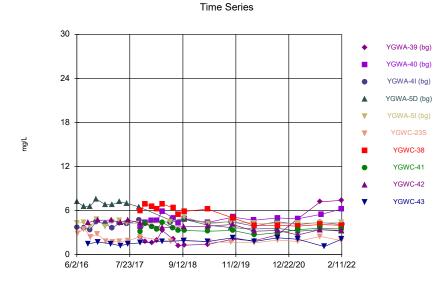


Constituent: Calcium Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

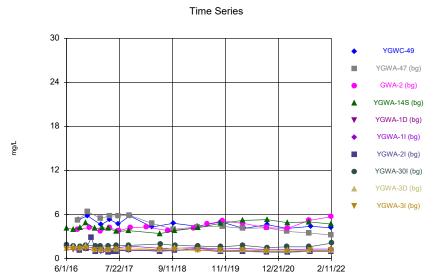


Constituent: Chloride Analysis Run 4/19/2022 5:08 PM



Constituent: Chloride Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

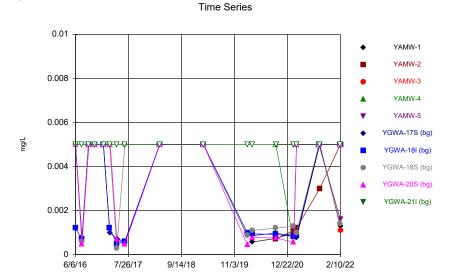
Sanitas  $^{\text{tw}}$  v.9.6.32j Groundwater Stats Consulting. UG

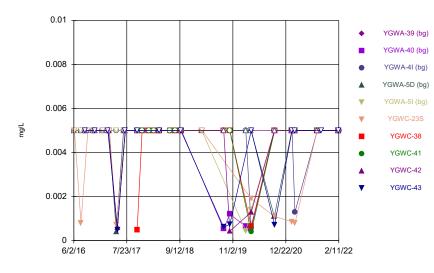


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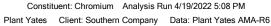
Time Series 30 PZ-35 PZ-37 24 YGWC-24SA 18 YGWC-36A mg/L PZ-37D 12 PZ-52D PZ-51 6/8/16 7/27/17 9/15/18 11/4/19 12/23/20 2/11/22

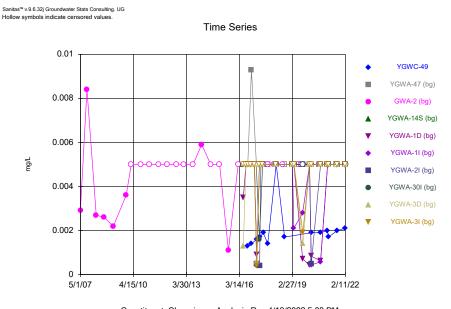
Constituent: Chloride Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

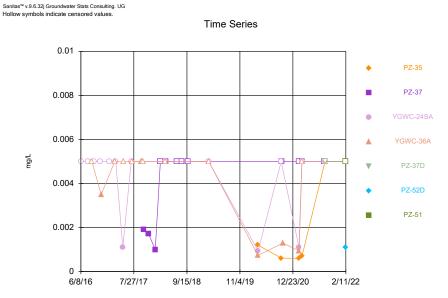




Constituent: Chromium Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



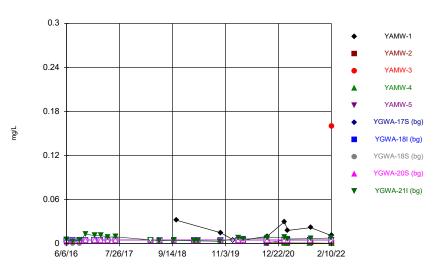




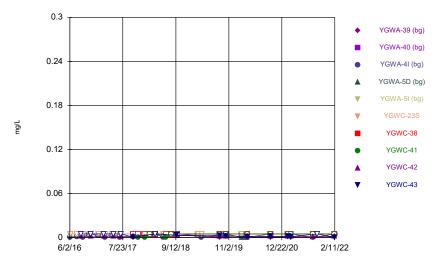
Constituent: Chromium Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Constituent: Chromium Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



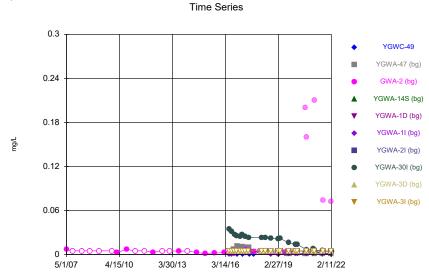


Constituent: Cobalt Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



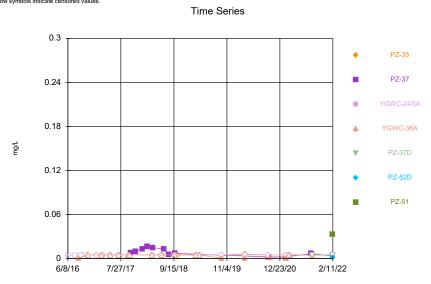
Constituent: Cobalt Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

### Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

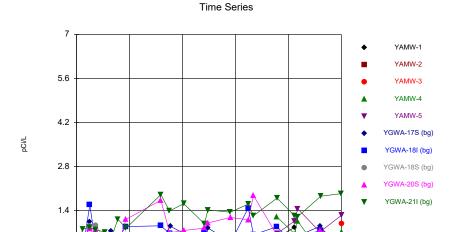


Constituent: Cobalt Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

#### Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Constituent: Cobalt Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Combined Radium 226 + 228 Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

11/3/19

12/22/20

2/10/22

9/14/18

### 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 2/11/22 6/2/16 7/23/17 9/12/18 11/2/19 12/22/20

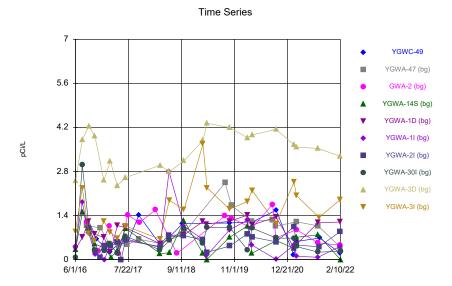
Time Series

Constituent: Combined Radium 226 + 228 Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

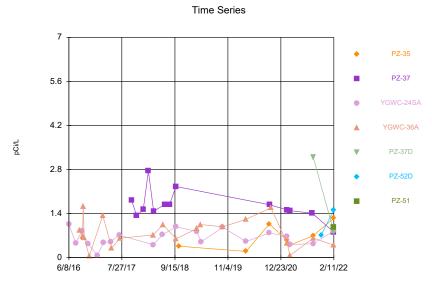
6/6/16

7/26/17



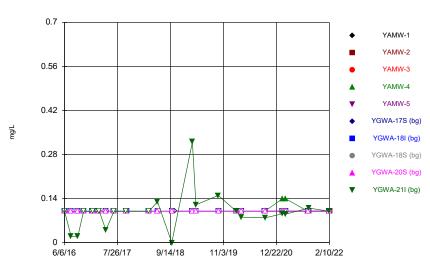
Constituent: Combined Radium 226 + 228 Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

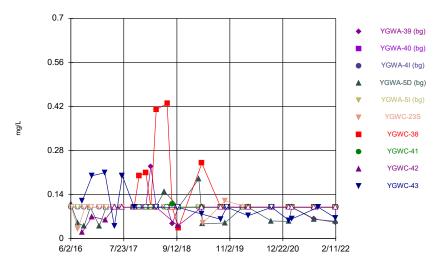


Constituent: Combined Radium 226 + 228 Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



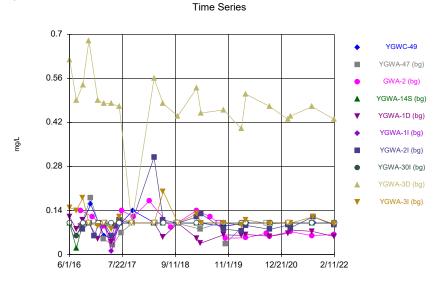


Constituent: Fluoride Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Fluoride Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

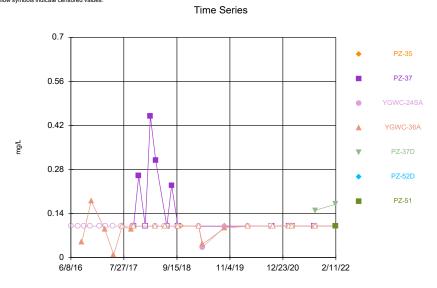
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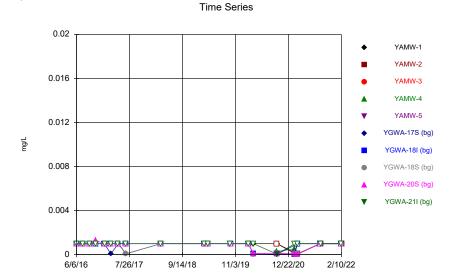
Constituent: Fluoride Analysis Run 4/19/2022 5:08 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

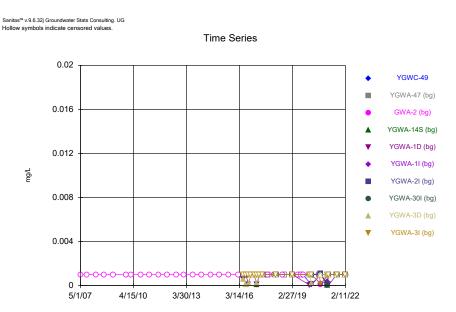
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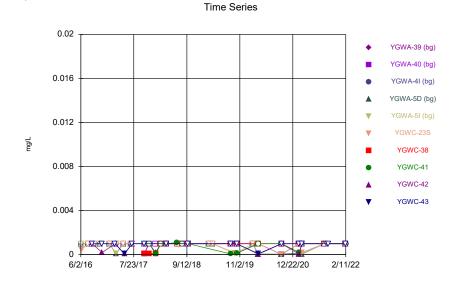
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



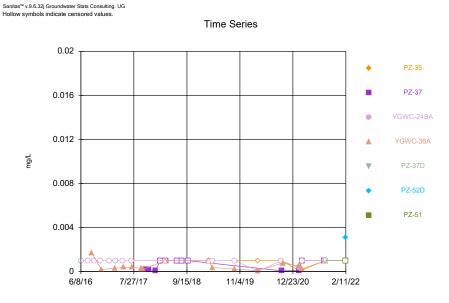
Constituent: Lead Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



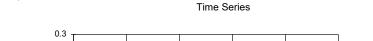
Constituent: Lead Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

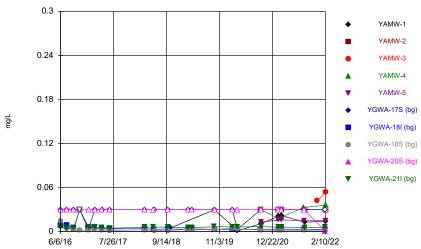


Constituent: Lead Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

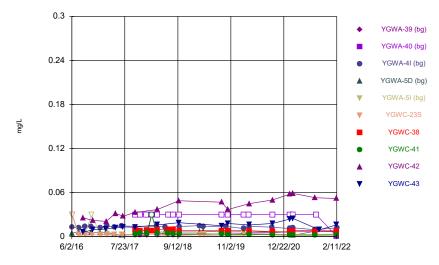


Constituent: Lead Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



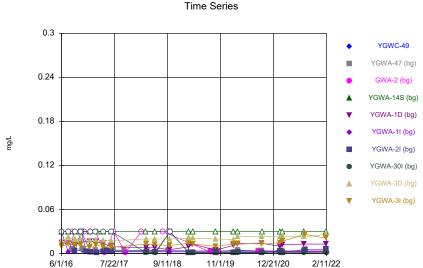


Constituent: Lithium Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



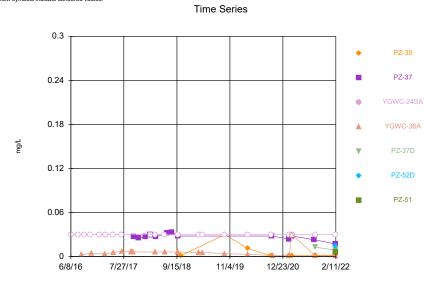
Constituent: Lithium Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

### Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Constituent: Lithium Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

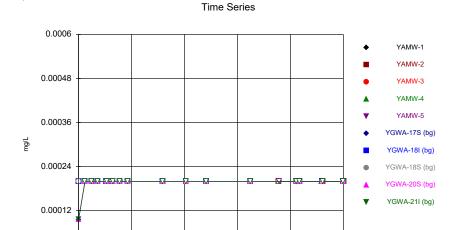
#### Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Constituent: Lithium Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

6/6/16

7/26/17



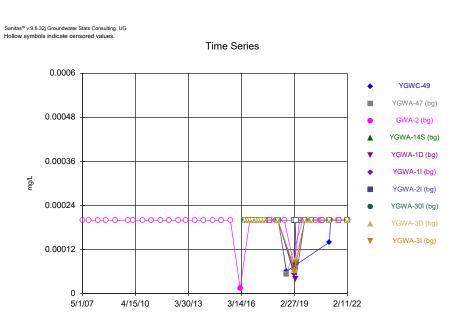
Constituent: Mercury Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

11/3/19

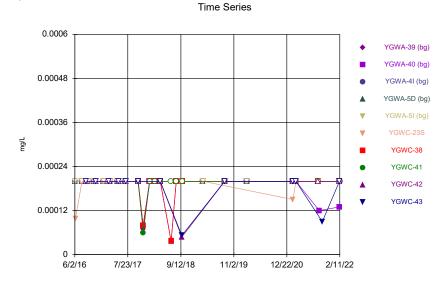
12/22/20

9/14/18

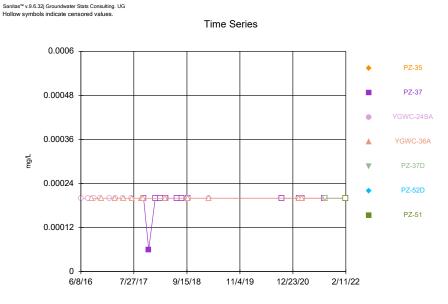
2/10/22



Constituent: Mercury Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

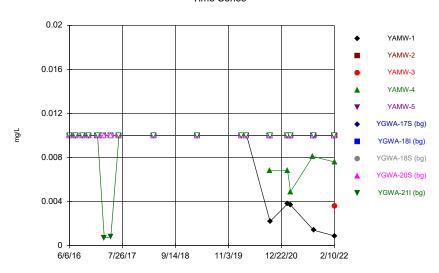


Constituent: Mercury Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

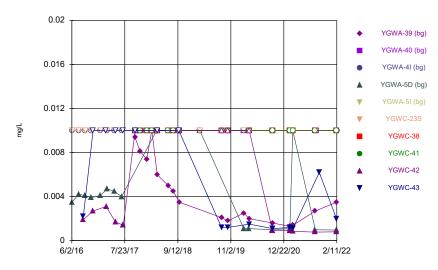


Constituent: Mercury Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



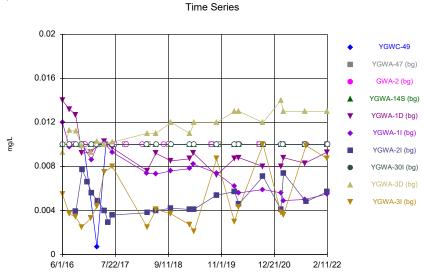


Constituent: Molybdenum Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



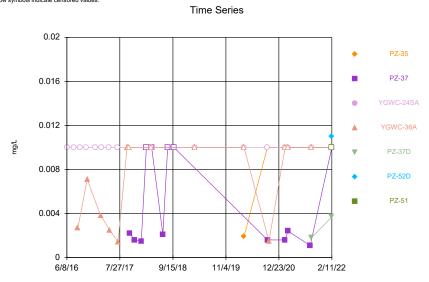
Constituent: Molybdenum Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

### Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

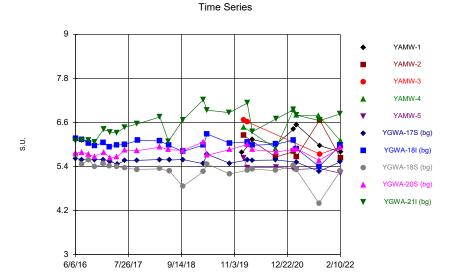


Constituent: Molybdenum Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

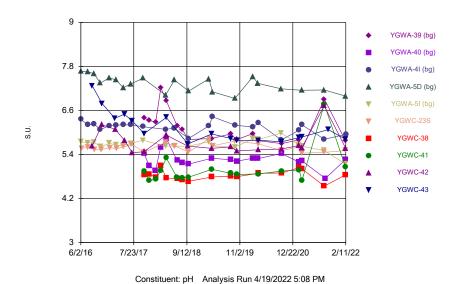
### Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Constituent: Molybdenum Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

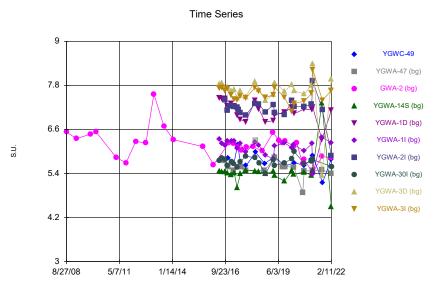


Constituent: pH Analysis Run 4/19/2022 5:08 PM



Time Series

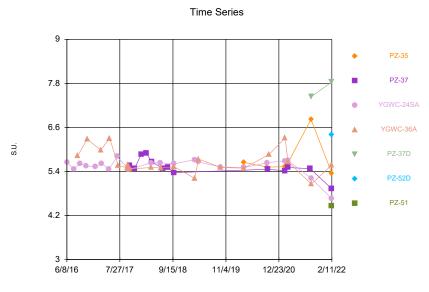
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG



Constituent: pH Analysis Run 4/19/2022 5:08 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

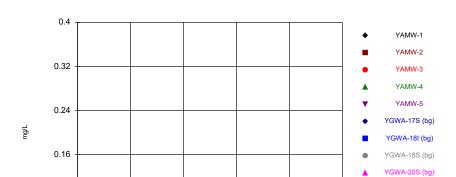


Constituent: pH Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

0.08

6/6/16

7/26/17



Time Series

Constituent: Selenium Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

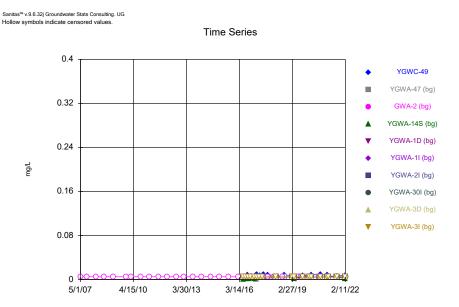
11/3/19

12/22/20

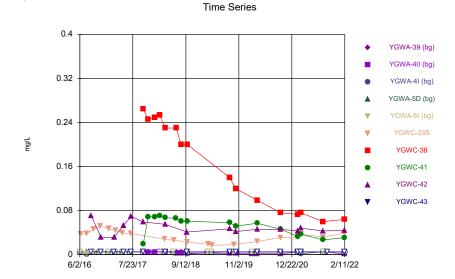
2/10/22

9/14/18

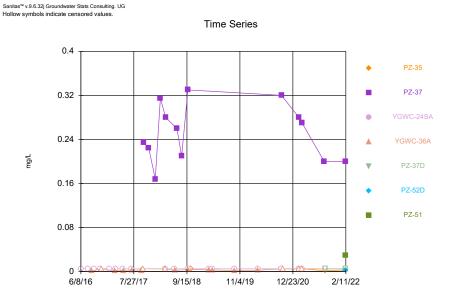
YGWA-21I (bg)



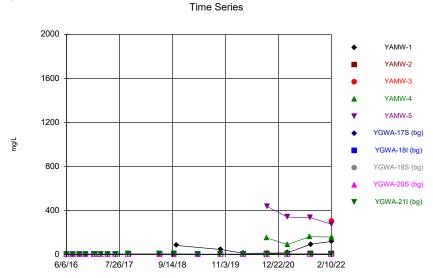
Constituent: Selenium Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



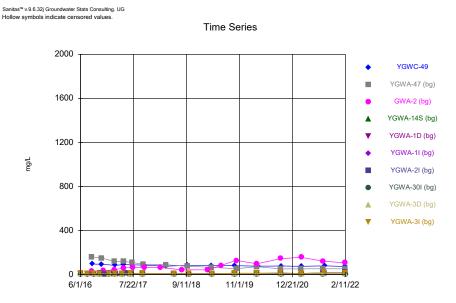
Constituent: Selenium Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Selenium Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

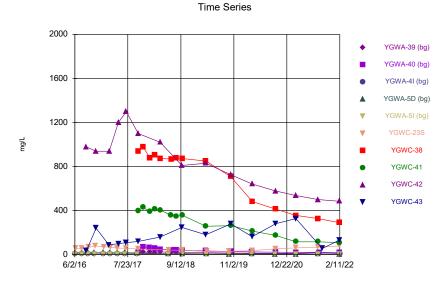




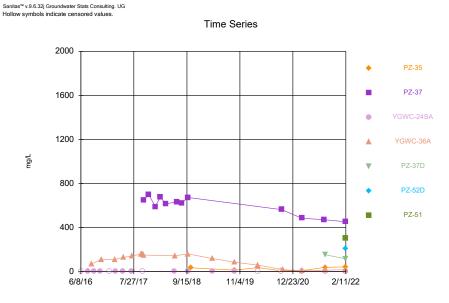


Constituent: Sulfate Analysis Run 4/19/2022 5:08 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

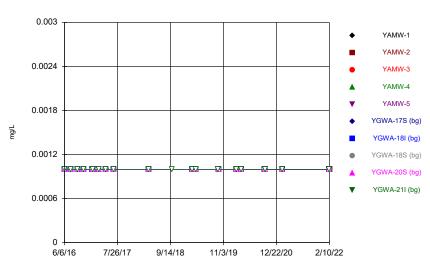


Constituent: Sulfate Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

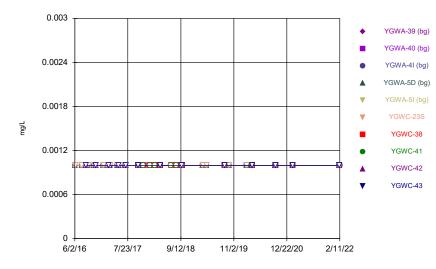


Constituent: Sulfate Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



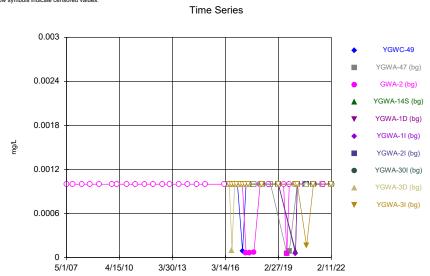


Constituent: Thallium Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



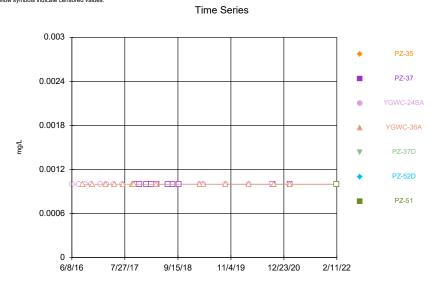
Constituent: Thallium Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

### Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Constituent: Thallium Analysis Run 4/19/2022 5:08 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

### Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Constituent: Thallium Analysis Run 4/19/2022 5:09 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

2000

1600

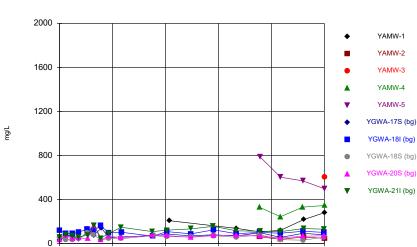
1200

800

400

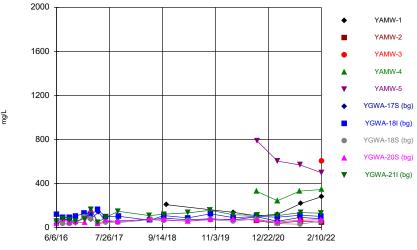
6/2/16

mg/L

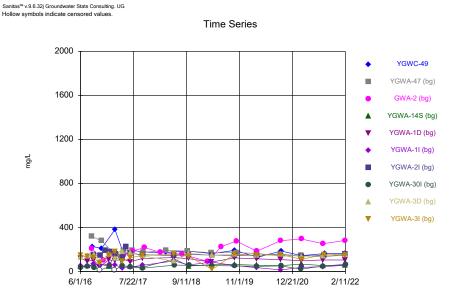


Time Series

Constituent: Total Dissolved Solids Analysis Run 4/19/2022 5:09 PM 

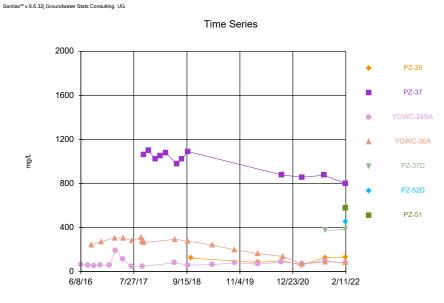






Constituent: Total Dissolved Solids Analysis Run 4/19/2022 5:09 PM 





Time Series

9/12/18

11/2/19

Constituent: Total Dissolved Solids Analysis Run 4/19/2022 5:09 PM

YGWA-39 (bg)

YGWA-40 (bg)

YGWA-4I (bg) YGWA-5D (bg)

YGWC-38

YGWC-41

YGWC-42

YGWC-43

2/11/22

12/22/20

Constituent: Total Dissolved Solids Analysis Run 4/19/2022 5:09 PM 

Constituent: Antimony (mg/L) Analysis Run 4/19/2022 5:14 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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 6/7/2016						<0.003	<0.003	<0.003	<0.003
7/27/2016						<0.003	0.0005 (J)	<0.003	<0.003
7/28/2016						<b>\0.003</b>	0.0005 (3)	<0.003	<0.003
9/16/2016						<0.003		<0.003	
9/19/2016						<b>\0.003</b>	<0.003	<0.003	<0.003
11/2/2016							<0.003		<0.003
11/3/2016						<0.003	<0.003	<0.003	<0.003
1/11/2017						<0.003	<0.003	<0.003	
1/13/2017						<b>\0.003</b>	<0.003	<0.003	<0.003
3/1/2017							<0.003	<0.003	<0.003
3/1/2017						<0.003	<0.003	<0.003	
3/6/2017						<b>\0.003</b>			<0.003
4/26/2017							<0.003	<0.003	<0.003
5/2/2017						<0.003	<0.003	<0.003	<0.003
6/28/2017						<b>\0.003</b>	<0.003	<0.003	
6/29/2017						<0.003	<0.003	<0.003	<0.003
						<0.003	<0.003	<0.003	<0.003
3/28/2018 3/29/2018						<0.003	<0.003	<0.003	<0.003
3/5/2019						<0.003		<0.003	<0.003
3/6/2019						<b>\0.003</b>	<0.003	<0.003	<0.003
						<b>~0.00</b> 2	<0.003		
4/2/2019						<0.003	10.000	-0.000	10.000
4/3/2019 9/24/2019							<0.003	<0.003	<0.003
						<b>~0.00</b> 2			<0.003
9/25/2019	<0.003					<0.003	0.00056 (1)	<0.002	<0.003
9/26/2019 2/11/2020	<0.003					<0.003	0.00056 (J) <0.003	<0.003 <0.003	
2/11/2020						<b>\0.003</b>	<0.003	<0.003	<0.003
3/24/2020						<0.003	<0.003	<0.003	<0.003
3/25/2020	<0.003					<b>\0.003</b>	<0.003	<0.003	<0.003
9/23/2020	<0.003	<0.003		0.00065 (J)		<0.003	<0.003	<0.003	
9/24/2020	<0.003	<0.003		0.00003 (3)	0.00033 (J)	<b>\0.003</b>	<0.003	<0.003	<0.003
2/9/2021	0.00037 (J)	<0.003		0.0011 (J)	<0.003		<0.003	<0.003	
	* *	<0.003		. ,	<0.003	<0.003	<0.003		0.00032 (J) <0.003
3/3/2021 3/4/2021	0.025	<0.003		0.00062 (J)	<0.003	<0.003	<0.003	0.00067 (J)	<0.003
				-0.002	<0.003				
8/25/2021				<0.003	<0.003			<0.003	
8/26/2021					<0.003	<0.003	<0.002	<0.003	<0.002
8/27/2021 9/1/2021	0.002471	<0.003				<b>\0.003</b>	<0.003		<0.003
	0.0024 (J)	<0.003				<0.003	<0.003	~0.003	<0.003
2/9/2022	-0.000	<b>~0.000</b>	<b>-0.000</b>	<0.000	<0.002	<0.003	<0.003	<0.003	<0.003
2/10/2022	<0.003	<0.003	<0.003	<0.003	<0.003				

Constituent: Antimony (mg/L) Analysis Run 4/19/2022 5:14 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	<0.003
7/27/2016	
7/28/2016	<0.003
9/16/2016	
9/19/2016	0.001 (J)
11/2/2016	
11/3/2016	<0.003
1/11/2017	
1/13/2017	<0.003
3/1/2017	
3/2/2017	
3/6/2017	0.0005 (J)
4/26/2017	<0.003
5/2/2017	
6/28/2017	
6/29/2017	<0.003
3/28/2018	
3/29/2018	<0.003
3/5/2019	0.0011 (J)
3/6/2019	
4/2/2019	0.0011 (J)
4/3/2019	
9/24/2019	0.0035
9/25/2019	
9/26/2019	
2/11/2020	
2/12/2020	0.0015 (J)
3/24/2020	0.0017 (J)
3/25/2020	
9/23/2020	
9/24/2020	0.0047
2/9/2021	0.0013 (J)
3/3/2021	
3/4/2021	0.0014 (J)
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	<0.003
2/9/2022	<0.003

2/10/2022

Constituent: Antimony (mg/L) Analysis Run 4/19/2022 5:14 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

6/2/2016	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg) <0.003	YGWA-5D (bg) <0.003	YGWA-5I (bg) <0.003	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/7/2016			10.000	10.003	10.003	<0.003			
7/26/2016			0.0003 (J)	<0.003	<0.003	<b>~</b> 0.003			
			0.0003 (3)	<0.003	<0.003	<0.002			
7/28/2016						<0.003			
8/30/2016									<0.003
8/31/2016									
9/14/2016			<0.003	<0.003	<0.003				
9/20/2016						<0.003			
11/2/2016			<0.003	<0.003					
11/4/2016					<0.003				
11/8/2016						<0.003			
11/16/2016									<0.003
1/12/2017				<0.003	<0.003				
1/13/2017			<0.003						
1/16/2017						<0.003			
2/24/2017									
2/27/2017									<0.003
3/6/2017			<0.003						
3/7/2017				<0.003	<0.003				
3/9/2017						<0.003			
5/1/2017			<0.003	<0.003					
5/2/2017					<0.003	<0.003			
5/10/2017					10.000	-0.000			<0.003
6/27/2017				<0.003	<0.003				·0.000
6/29/2017			<0.003	10.003	10.003				
			<0.003			<0.002			
7/10/2017						<0.003			-0.00a
7/11/2017	0.0000 (1)								<0.003
10/11/2017	0.0006 (J)								
10/12/2017		<0.003					<0.003	<0.003	<0.003
11/20/2017	<0.003	<0.003					<0.003		
11/21/2017								<0.003	
1/10/2018		<0.003							
1/11/2018	<0.003							<0.003	
1/12/2018							<0.003		
2/19/2018		<0.003						<0.003	
2/20/2018	<0.003						<0.003		
3/29/2018			<0.003	<0.003	<0.003				
3/30/2018						<0.003			
4/3/2018	<0.003	<0.003					<0.003	<0.003	
4/4/2018									<0.003
6/27/2018								<0.003	
6/28/2018	<0.003	<0.003					<0.003		
8/7/2018	<0.003	<0.003					0.0015 (J)	<0.003	
9/20/2018									<0.003
9/24/2018	<0.003	<0.003					<0.003	<0.003	
3/4/2019			<0.003	<0.003	<0.003				
3/6/2019						<0.003			
4/3/2019			<0.003	<0.003	<0.003				
4/4/2019			0.000	0.000	0.000	<0.003			
8/21/2019	<0.003	<0.003				-0.000			
8/22/2019	-0.000	·0.003					<0.003	<0.003	<0.003
				<0.003	<0.003		~U.UU3	~U.UU3	<b>~</b> 0.003
9/24/2019				<0.003	<0.003				

Constituent: Antimony (mg/L) Analysis Run 4/19/2022 5:14 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
9/25/2019			<0.003						
9/27/2019						0.00029 (J)			
2/12/2020	<0.003	<0.003	<0.003	<0.003	<0.003				
3/24/2020		<0.003		<0.003	<0.003				
3/25/2020	0.0014 (J)		<0.003				0.00063 (J)	<0.003	<0.003
3/26/2020						<0.003			
9/22/2020			<0.003	<0.003	<0.003				
9/24/2020	<0.003	<0.003				0.00085 (J)			<0.003
9/25/2020							0.00061 (J)	<0.003	
2/8/2021				<0.003	<0.003				
2/9/2021			<0.003			0.00052 (J)	0.00031 (J)		
2/10/2021	<0.003	<0.003						0.0014 (J)	0.00053 (J)
3/2/2021				<0.003	<0.003				
3/3/2021			<0.003						
3/4/2021	<0.003	<0.003				<0.003	<0.003	<0.003	<0.003
8/25/2021						<0.003			<0.003
8/26/2021	<0.003		<0.003	<0.003	<0.003		<0.003	<0.003	
9/3/2021		<0.003							
9/27/2021									
2/8/2022	<0.003	<0.003						<0.003	
2/10/2022				<0.003	<0.003	<0.003	<0.003		<0.003
2/11/2022			<0.003						

Constituent: Antimony (mg/L) Analysis Run 4/19/2022 5:14 PM

			Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
		YGWC-43			
6/2/2	2016				
6/7/2					
	/2016				
	/2016				
	/2016				
	/2016	<0.003			
	/2016	10.000			
	/2016				
	/2016				
	/2016				
	/2016	-0.000			
	6/2016	<0.003			
	/2017				
	/2017				
	/2017				
	/2017	<0.003			
	/2017				
3/6/2					
3/7/2					
3/9/2					
5/1/2					
5/2/2					
	/2017	<0.003			
	/2017				
	/2017				
	/2017				
	/2017	<0.003			
	1/2017				
	2/2017	<0.003			
	0/2017				
	1/2017				
	/2018				
	/2018				
	/2018				
	/2018 /2018				
	/2018				
4/3/2	/2018				
		<0.003			
4/4/2	2018 /2018	<0.003			
	/2018				
8/7/2		-0.000			
	/2018	<0.003			
	/2018				
3/4/2 3/6/2					
4/3/2					
4/3/2					
	/2019	<0.003			
	/2019	~0.000			
	/2019				
3/24	72013				

Constituent: Antimony (mg/L) Analysis Run 4/19/2022 5:14 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
9/25/2019	
9/27/2019	
2/12/2020	
3/24/2020	
3/25/2020	0.00031 (J)
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	<0.003
2/8/2021	
2/9/2021	<0.003
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.003
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	<0.003
2/8/2022	<0.003
2/10/2022	
2/11/2022	

	YGWC-49	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		<0.003	<0.003			
				<0.002	<0.003	<0.003		<0.002	<0.002
6/2/2016				<0.003		-0.000		<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				0.001 (1)	0.000			
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			0.000				
4/4/2018	<0.003	0.000							
8/6/2018	0.000		<0.003						
9/19/2018		<0.003	-0.000						
9/20/2018	<0.003	-0.003							
2/25/2019	10.003		<0.003						
2/26/2019			<b>~0.003</b>	<0.003				<0.003	
2/27/2019				<b>~</b> 0.003	<0.003	<0.003	<0.003	<b>~0.003</b>	<0.003
6/12/2019			<0.003		<0.003	<0.003	<0.003		<0.003
8/19/2019			<0.003						
		-0.002	<0.003						
8/20/2019 9/26/2019	<0.003	<0.003							
	<0.003		<0.003						
10/8/2019			<0.003		0.00088 (1)	<0.002			
2/10/2020					0.00088 (J)	<0.003	0.00000 (1)		
2/11/2020				-0.000			0.00036 (J)	-0.000	10.000
2/12/2020			-0.000	<0.003				<0.003	<0.003
3/17/2020			<0.003	-0.000		0.000471			
3/18/2020				<0.003	-0.000	0.0004 (J)	0.0002 (1)	10.000	0.00004 ( 1)
3/19/2020 3/25/2020	0.00052 (1)				<0.003		0.0003 (J)	<0.003	0.00064 (J)
	0.00053 (J)		0.00040 (1)						
8/26/2020		0.00040 (1)	0.00042 (J)						
8/27/2020		0.00048 (J)	0.00044 (1)						
9/22/2020		<0.003	0.00044 (J)		-0.000	-0.000	-0.000		10.000
9/23/2020	-0.000				<0.003	<0.003	<0.003	-0.000	<0.003
9/24/2020	<0.003							<0.003	
9/25/2020				<0.003					
2/9/2021	<0.003						0.0040 ( 1)		.0.000
2/10/2021				<0.003			0.0013 (J)	.0.000	<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	.0.055	0.000	.0.000		
3/3/2021	.0.000				<0.003	<0.003	<0.003		<0.003
3/4/2021	<0.003	0.000		0.000				.0.000	
8/19/2021		<0.003		<0.003	<0.003	<0.003		<0.003	<0.003
8/20/2021			<0.003				10.000		
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	

		Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
	YGWA-3I (bg)			
5/1/2007	(-9)			
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			
	<b>~</b> 0.003			
6/2/2016	<b>40.002</b>			
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	<b>~</b> 0.003			
9/19/2016 11/1/2016	<0.003			
11/2/2016	<b>~</b> 0.003			
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				

Constituent: Antimony (mg/L) Analysis Run 4/19/2022 5:14 PM

		Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
	YGWA-3I (bg)			
5/9/2017				
5/26/2017				
6/27/2017				
6/28/2017	<0.003			
6/30/2017	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				
3/28/2018	<0.003			
3/29/2018				
4/2/2018				
4/4/2018				
8/6/2018				
9/19/2018				
9/20/2018				
2/25/2019				
2/26/2019				
2/27/2019	<0.003			
6/12/2019				
8/19/2019				
8/20/2019				
9/26/2019				
10/8/2019				
2/10/2020				
2/11/2020	<0.003			
2/12/2020				
3/17/2020				
3/18/2020				
3/19/2020	<0.003			
3/25/2020				
8/26/2020				
8/27/2020				
9/22/2020				
9/23/2020	<0.003			
9/24/2020				
9/25/2020				
2/9/2021				
2/10/2021	<0.003			
2/11/2021				
2/12/2021				
3/1/2021				
3/2/2021				
3/3/2021	<0.003			
3/4/2021				
8/19/2021				
8/20/2021				
8/27/2021	<0.003			

Constituent: Antimony (mg/L) Analysis Run 4/19/2022 5:14 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWA-3I (bg)
9/1/2021
2/8/2022
2/9/2022
2/10/2022

2/11/2022

	PZ-35	PZ-37	YGWC-24SA	YGWC-36A	PZ-37D	PZ-52D	PZ-51
6/8/2016			<0.003				
8/1/2016			<0.003				
9/2/2016				<0.003			
9/20/2016			0.0009 (J)				
11/8/2016			<0.003				
11/14/2016				0.0014 (J)			
1/17/2017			<0.003				
2/28/2017				0.0004 (J)			
3/8/2017			<0.003				
5/2/2017			<0.003				
5/9/2017				<0.003			
7/7/2017			<0.003				
7/13/2017				<0.003			
9/22/2017				<0.003			
9/29/2017				<0.003			
10/6/2017				<0.003			
10/12/2017		<0.003					
11/21/2017		<0.003					
1/11/2018		<0.003					
2/20/2018		<0.003					
3/30/2018			<0.003	<0.003			
4/3/2018		<0.003					
6/29/2018		<0.003					
8/6/2018		<0.003					
9/24/2018		<0.003					
3/5/2019			<0.003				
3/6/2019				0.0011 (J)			
4/4/2019			<0.003	0.0041			
9/26/2019	<0.003		<0.003	0.0065			
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	

	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	-0.000	-0.000	<0.005
3/28/2018						<0.005	<0.005	0.00061 (J)	-0.000
3/29/2018						10.003	-0.003	0.00001 (3)	<0.005
6/5/2018									<b>10.003</b>
6/6/2018									<0.005
							0.00066 (J)		<b>10.003</b>
6/7/2018						<0.00E	0.00000 (3)	<0.00E	
6/11/2018						<0.005	-0.005	<0.005	10.005
9/25/2018	.0.005					<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)				

Constituent: Arsenic (mg/L) Analysis Run 4/19/2022 5:14 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	<0.005
7/27/2016	
7/28/2016	<0.005
9/16/2016	
9/19/2016	<0.005
11/2/2016	
11/3/2016	<0.005
1/11/2017	
1/13/2017	<0.005
3/1/2017	
3/2/2017	
3/6/2017	0.0017 (J)
4/26/2017	<0.005
5/2/2017	
6/28/2017	
6/29/2017	<0.005
3/28/2018	
3/29/2018	0.0015 (J)
6/5/2018	0.0013 (J)
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	0.0022 (J)
10/16/2018	
3/5/2019	0.0013 (J)
3/6/2019	
4/2/2019	0.00096 (J)
4/3/2019	
9/24/2019	0.0026 (J)
9/25/2019	
9/26/2019	
2/11/2020	
2/12/2020	0.0025 (J)
3/24/2020	0.0013 (J)
3/25/2020	
9/23/2020	
9/24/2020	0.0014 (J)
2/9/2021	0.001 (J)
3/3/2021	
3/4/2021	0.00078 (J)
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	<0.005
2/9/2022	0.0036 (J)

2/10/2022

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.005	0.00071 (J)	<0.005				
6/7/2016						<0.005			
7/26/2016			<0.005	0.001 (J)	<0.005				
7/28/2016						<0.005			
8/30/2016									0.0023 (J)
8/31/2016									
9/14/2016			<0.005	<0.005	<0.005				
9/20/2016						<0.005			
11/2/2016			<0.005	<0.005					
11/4/2016					<0.005				
11/8/2016						<0.005			
11/16/2016									0.0017 (J)
1/12/2017				<0.005	<0.005				
1/13/2017			<0.005						
1/16/2017						<0.005			
2/24/2017									
2/27/2017									0.002 (J)
3/6/2017			<0.005						, ,
3/7/2017				0.0012 (J)	<0.005				
3/9/2017				(-,		<0.005			
5/1/2017			<0.005	<0.005					
5/2/2017			0.000	0.000	<0.005	<0.005			
5/10/2017					10.000	-0.000			0.0022 (J)
6/27/2017				0.0019 (J)	<0.005				0.0022 (0)
6/29/2017			<0.005	0.0013 (3)	10.003				
7/10/2017			<b>~</b> 0.003			<0.005			
7/10/2017						<0.005			0.003 (J)
	0.0000 ( 1)								0.003 (3)
10/11/2017	0.0009 (J)	<0.00E					0.0022 (1)	0.0011 (1)	0.0021 (1)
10/12/2017	-0.005	<0.005					0.0023 (J)	0.0011 (J)	0.0031 (J)
11/20/2017	<0.005	<0.005					0.0008 (J)	<0.00E	
11/21/2017		-0.005						<0.005	
1/10/2018	0.005	<0.005						.0.005	
1/11/2018	<0.005						0.004 (1)	<0.005	
1/12/2018							0.001 (J)	.0.005	
2/19/2018		<0.005						<0.005	
2/20/2018	<0.005						0.00096 (J)		
3/29/2018			<0.005	0.0006 (J)	<0.005				
3/30/2018						<0.005			
4/3/2018	<0.005	<0.005					0.0015 (J)	0.00072 (J)	
4/4/2018									0.0023 (J)
6/6/2018				0.0013 (J)					
6/7/2018			0.00059 (J)		<0.005				
6/12/2018						<0.005			
6/27/2018								0.00062 (J)	
6/28/2018	<0.005	<0.005					0.0017 (J)		
8/7/2018	<0.005	<0.005					0.00072 (J)	<0.005	
9/20/2018									0.0018 (J)
9/24/2018	<0.005	<0.005					0.0017 (J)	0.001 (J)	
9/26/2018			<0.005	0.0014 (J)	<0.005				
9/27/2018						<0.005			
3/4/2019			<0.005	<0.005	<0.005				
3/6/2019						<0.005			

4/2/2010	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 4/4/2019			<0.005	<0.005	<0.005	<0.005			
8/21/2019	0.00058 (J)	<0.005				<0.005			
8/22/2019	0.00056 (3)	<0.005					0.00055 (1)	0.00036 ( 1)	0.00000 ( 1)
				0.00043 (1)	<0.005		0.00055 (J)	0.00036 (J)	0.00089 (J)
9/24/2019 9/25/2019			<0.005	0.00043 (J)	<0.005				
9/25/2019			<0.005			<0.005			
	0.00002 (1)	-0.005				<0.005	0.00057 (1)	0.00050 (1)	0.00070 (1)
10/9/2019	0.00063 (J)	<0.005	0.005	0.004071	0.000 (1)		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	0.0040 ( 1)	<0.005	0.005	0.00065 (J)	<0.005		0.00000 (1)	0.004 ( 1)	0.0040 (1)
3/25/2020	0.0012 (J)		<0.005				0.00068 (J)	0.001 (J)	0.0013 (J)
3/26/2020			0.005	0.004 (1)	.0.005	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)						

		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	5.555			
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	0.00099 (J)			
	0.00033 (3)			
9/24/2018 9/26/2018				
9/20/2018 9/27/2018				
3/4/2019				
3/6/2019				
J. J. LU 1J				

	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	

	YGWC-49	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		0.0001	-0.005			
6/1/2016				.0.005	0.0021	<0.005		0.005	.0.005
6/2/2016				<0.005				<0.005	<0.005
7/25/2016						<0.005		<0.005	
7/26/2016				<0.005	0.0016 (J)				<0.005
8/30/2016		<0.005							
8/31/2016			<0.005						
9/1/2016	<0.005								
9/13/2016					<0.005	<0.005			
9/14/2016							<0.005		
9/15/2016				<0.005					<0.005
9/19/2016								<0.005	
11/1/2016					<0.005			<0.005	<0.005
11/2/2016				<0.005					
11/4/2016						<0.005	0.0017 (J)		
11/14/2016		<0.005							
11/15/2016	<0.005								
11/28/2016			<0.005						
12/15/2016							0.0023 (J)		
1/10/2017				<0.005					
1/11/2017					0.0017 (J)				<0.005
1/16/2017						<0.005	0.0018 (J)	<0.005	
2/21/2017								<0.005	
2/22/2017			<0.005						
2/24/2017		<0.005							
2/27/2017	<0.005								
3/1/2017									
3/2/2017					0.0014 (J)	<0.005			<0.005
3/3/2017							0.0016 (J)		
3/8/2017				<0.005			• •		
4/26/2017				<0.005				<0.005	<0.005
4/27/2017					0.0018 (J)	<0.005			
4/28/2017					. ,		0.002 (J)		
5/8/2017		<0.005	<0.005				` ,		

		YGWC-49	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)
	/30/2017				<0.005			. ,	<0.005	( )
	/11/2017		<0.005							
	/13/2017	<0.005								
	/17/2017	0.000		<0.005						
	0/10/2017		0.0007 (J)	0.000						
	0/11/2017	0.0006 (J)	0.0007 (0)							
	0/16/2017	0.0000 (0)		<0.005						
	/19/2018			<0.005						
	/27/2018			<b>~0.003</b>	<0.005		<0.005		<0.005	
					<b>~0.003</b>		<b>~</b> 0.003	0.0013 (J)	<b>~</b> 0.003	<0.005
	/28/2018					0.0017 (1)		0.0013 (3)		<0.005
	/29/2018		-0.005			0.0017 (J)				
	/2/2018	.0.005	<0.005							
	/4/2018	<0.005								
	/5/2018					0.0013 (J)				
	/6/2018						<0.005			
	/7/2018							0.00082 (J)		<0.005
	/8/2018				<0.005					
	/11/2018								<0.005	
	/6/2018			<0.005						
	/19/2018		0.00072 (J)							
	/20/2018	0.001 (J)								
1	0/1/2018				<0.005	0.0016 (J)	<0.005	0.0011 (J)		<0.005
1	0/2/2018								<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								
1	0/8/2019		<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			
	/19/2020					0.00095 (J)		0.00066 (J)	<0.005	<0.005
	/25/2020	0.00086 (J)				.,		` '		
	/26/2020	V-7		<0.005						
	/27/2020		<0.005							
	/22/2020		<0.005	<0.005						
	/23/2020		2- <del></del>	9- <del></del>		0.0011 (J)	<0.005	0.001 (J)		<0.005
	/24/2020	<0.005				(0)		(0)	<0.005	
3		5.000							5.000	

9/25/2020	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg) <0.005	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
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)	

		Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
	YGWA-3I (bg)			
5/1/2007	(-9)			
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	-0.000			
7/25/2016	<0.005			
7/26/2016	10.000			
8/30/2016				
8/31/2016				
9/1/2016				
9/13/2016				
9/14/2016	<0.005			
9/15/2016	<b>10.003</b>			
9/19/2016				
11/1/2016	<0.005			
11/2/2016	10.000			
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	-0.000			
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				
- *				

Constituent: Arsenic (mg/L) Analysis Run 4/19/2022 5:14 PM

		Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
	YGWA-3I (bg)			
5/9/2017				
5/26/2017				
6/27/2017				
6/28/2017	0.0011 (1)			
	0.0011 (J)			
6/30/2017				
7/11/2017				
7/13/2017				
7/17/2017				
10/10/2017				
10/11/2017				
10/16/2017				
2/19/2018				
3/27/2018				
3/28/2018	<0.005			
3/29/2018				
4/2/2018				
4/4/2018				
6/5/2018				
6/6/2018				
6/7/2018				
6/8/2018	<0.005			
6/11/2018				
8/6/2018				
9/19/2018				
9/20/2018				
10/1/2018	<0.005			
10/2/2018				
2/25/2019				
2/26/2019				
2/27/2019	<0.005			
3/28/2019				
3/29/2019				
4/1/2019	<0.005			
6/12/2019				
8/19/2019				
8/20/2019				
9/24/2019				
9/25/2019	<0.005			
9/26/2019				
10/8/2019				
2/10/2020				
2/11/2020	0.0041 (J)			
2/12/2020				
3/17/2020				
3/18/2020				
3/19/2020	<0.005			
3/25/2020				
8/26/2020				
8/27/2020				
9/22/2020				
9/23/2020	<0.005			
9/24/2020				

	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	

	PZ-35	PZ-37	YGWC-24SA	YGWC-36A	PZ-37D	PZ-52D	PZ-51
6/8/2016			<0.005				
8/1/2016			<0.005				
9/2/2016				<0.005			
9/20/2016			<0.005				
11/8/2016			<0.005				
11/14/2016				<0.005			
1/17/2017			<0.005				
2/28/2017				0.0006 (J)			
3/8/2017			<0.005				
5/2/2017			<0.005				
5/9/2017				0.0006 (J)			
7/7/2017			<0.005				
7/13/2017				<0.005			
9/22/2017				<0.005			
9/29/2017				<0.005			
10/6/2017				<0.005			
10/12/2017		0.0014 (J)					
11/21/2017		0.0008 (J)					
1/11/2018		0.0006 (J)					
2/20/2018		<0.005					
3/30/2018			<0.005	<0.005			
4/3/2018		0.0012 (J)					
6/12/2018			<0.005				
6/13/2018				0.00066 (J)			
6/29/2018		0.0011 (J)					
8/6/2018		<0.005					
9/24/2018		0.00094 (J)					
9/26/2018			<0.005	<0.005			
10/16/2018	0.00069 (J)						
3/5/2019			<0.005				
3/6/2019				<0.005			
4/4/2019			<0.005	<0.005			
9/26/2019	<0.005		<0.005	<0.005			
3/25/2020	<0.005			<0.005			
3/26/2020			0.0015 (J)				
9/23/2020			<0.005				
9/24/2020	<0.005						
9/25/2020		<0.005					
10/7/2020				<0.005			
2/9/2021		0.0015 (J)	<0.005				
2/10/2021	0.00096 (J)			0.00088 (J)			
3/3/2021			<0.005				
3/4/2021	<0.005	<0.005		<0.005			
8/25/2021		0.0014 (J)					
9/1/2021	<0.005		<0.005				
9/3/2021				<0.005	<0.005		
2/10/2022	0.0018 (J)	0.0017 (J)	0.0024 (J)				0.0013 (J)
2/11/2022				0.0014 (J)	<0.005	0.0014 (J)	

6/6/2016	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)
6/7/2016						0.010	0.028	0.019	0.014
						0.012	0.0004	0.0407	0.014
7/27/2016						0.0126	0.0294	0.0167	0.0141
7/28/2016									
9/16/2016						0.0127		0.0168	
9/19/2016							0.0247		0.0155
11/2/2016									0.0157
11/3/2016						0.0128	0.0248	0.0159	
1/11/2017						0.0142	0.0266	0.0162	
1/13/2017									0.0158
3/1/2017							0.0275	0.0195	
3/2/2017						0.0155			
3/6/2017									0.0163
4/26/2017							0.024	0.0182	0.0177
5/2/2017						0.0138			
6/28/2017							0.0237	0.018	
6/29/2017						0.0128			0.017
3/28/2018						0.014	0.024	0.021	
3/29/2018									0.014
6/5/2018									
6/6/2018									0.015
6/7/2018							0.023		
6/11/2018						0.013		0.019	
9/25/2018						0.014	0.023	0.019	0.015
10/16/2018	0.048								
3/5/2019						0.015		0.02	0.016
3/6/2019							0.024		
4/2/2019						0.016			
4/3/2019							0.025	0.017	0.018
9/24/2019									
9/25/2019						0.015			0.014
9/26/2019	0.047						0.021	0.017	
2/11/2020						0.015	0.022	0.019	
2/12/2020									0.014
3/24/2020						0.015	0.021	0.017	0.015
3/25/2020	0.04								
9/23/2020		0.0092 (J)		0.0063 (J)		0.015	0.021	0.016	
9/24/2020	0.028				0.057				0.015
2/9/2021	0.039	0.0085 (J)		0.02	0.042		0.023	0.017	0.015
3/3/2021	0.035	0.0082		0.021		0.017	0.023	0.017	0.015
3/4/2021					0.039				
8/25/2021				0.0037 (J)					
8/26/2021					0.036			0.015	
8/27/2021						0.016	0.02		0.013
9/1/2021	0.075	0.0072							
2/9/2022						0.017	0.021	0.014	0.014
2/10/2022	0.084	0.0074	0.038	0.0033 (J)	0.034				
				. /					

Constituent: Barium (mg/L) Analysis Run 4/19/2022 5:14 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	0.0058
7/27/2016	
7/28/2016	0.0068 (J)
9/16/2016	
9/19/2016	0.0071 (J)
11/2/2016	
11/3/2016	0.0092 (J)
1/11/2017	
1/13/2017	0.0105
3/1/2017	
3/2/2017	
3/6/2017	0.0105
4/26/2017	0.011
5/2/2017	
6/28/2017	
6/29/2017	0.0109
3/28/2018	
3/29/2018	<0.01
6/5/2018	0.011
6/6/2018	0.0
6/7/2018	
6/11/2018	
9/25/2018	0.011
10/16/2018	0.011
3/5/2019	0.011
3/6/2019	0.011
4/2/2019	0.011
4/3/2019	0.011
9/24/2019	0.011
9/25/2019	0.011
9/26/2019	
2/11/2020	
2/11/2020	0.011
3/24/2020	0.011
3/25/2020	0.011
9/23/2020 9/24/2020	0.01
2/9/2021	0.011
3/3/2021	0.011
3/4/2021	0.011
8/25/2021	
8/26/2021	
8/27/2021	0.0000
9/1/2021	0.0099
2/9/2022	0.011

2/10/2022

6/2/2016	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg) 0.013	YGWA-5D (bg) 0.0084	YGWA-5I (bg) 0.019	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/7/2016			0.013	0.0004	0.019	0.045			
7/26/2016			0.0158	0.01	0.0179	0.043			
7/28/2016			0.0136	0.01	0.0179	0.0511			
						0.0511			0.0455
8/30/2016									0.0455
8/31/2016			0.0140	0.0005 (1)	0.0101				
9/14/2016			0.0143	0.0085 (J)	0.0181	0.0504			
9/20/2016						0.0561			
11/2/2016			0.0148	0.0091 (J)	0.0105				
11/4/2016					0.0165				
11/8/2016						0.054			
11/16/2016				0.0000 (1)	0.0400				0.0541
1/12/2017				0.0089 (J)	0.0199				
1/13/2017			0.0146						
1/16/2017						0.0528			
2/24/2017									
2/27/2017									0.0573
3/6/2017			0.0141						
3/7/2017				0.009 (J)	0.0196				
3/9/2017						0.0469			
5/1/2017			0.0149	0.0083 (J)					
5/2/2017					0.0202	0.0427			
5/10/2017									0.0517
6/27/2017				0.0074 (J)	0.0184				
6/29/2017			0.0154						
7/10/2017						0.0395			
7/11/2017									0.0451
10/11/2017	0.0092 (J)								
10/12/2017		0.0328					0.0269	0.0394	0.0429
11/20/2017	0.0081 (J)	0.0671					0.0255		
11/21/2017								0.032	
1/10/2018		0.0656							
1/11/2018	0.0077 (J)							0.03	
1/12/2018							0.0236		
2/19/2018		0.0598						0.0308	
2/20/2018	<0.01						0.0255		
3/29/2018			0.014	<0.01	0.021				
3/30/2018						0.03			
4/3/2018	<0.01	0.045					0.023	0.03	
4/4/2018									0.041
6/6/2018				0.008 (J)					
6/7/2018			0.014		0.019				
6/12/2018						0.024			
6/27/2018								0.028	
6/28/2018	0.0078 (J)	0.047					0.024		
8/7/2018	0.0078 (J)	0.048					0.023	0.027	
9/20/2018									0.038
9/24/2018	0.0071 (J)	0.042					0.021	0.026	
9/26/2018			0.02	0.0075 (J)	0.019				
9/27/2018						0.022			
3/4/2019			0.016	0.0077 (J)	0.019				
3/6/2019						0.019			

	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						

		Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
	YGWC-43			
6/2/2016				
6/7/2016				
7/26/2016				
7/28/2016				
8/30/2016				
8/31/2016	0.0065 (J)			
9/14/2016				
9/20/2016				
11/2/2016				
11/4/2016				
11/8/2016				
11/16/2016	0.0092 (J)			
1/12/2017				
1/13/2017				
1/16/2017				
2/24/2017	0.0144			
2/27/2017				
3/6/2017				
3/7/2017				
3/9/2017				
5/1/2017				
5/2/2017				
5/10/2017	0.0173			
6/27/2017				
6/29/2017				
7/10/2017				
7/11/2017	0.0183			
10/11/2017				
10/12/2017	0.0205			
11/20/2017				
11/21/2017				
1/10/2018				
1/11/2018				
1/12/2018				
2/19/2018				
2/20/2018				
3/29/2018				
3/30/2018				
4/3/2018	0.024			
4/4/2018 6/6/2018	0.024			
6/7/2018				
6/12/2018				
6/27/2018				
6/28/2018				
8/7/2018				
9/20/2018	0.035			
9/24/2018	-			
9/26/2018				
9/27/2018				
3/4/2019				
3/6/2019				

	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	

	YGWC-49	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			0.039						
2/16/2016			0.031						
			0.045		0.000	0.012			
6/1/2016				0.0081	0.008	0.012		0.0004	0.04
6/2/2016				0.0081		0.0001 (1)		0.0064	0.01
7/25/2016				0.0000 (1)	0.000 (1)	0.0091 (J)		0.0071 (J)	0.0000 ( 1)
7/26/2016		0.0440		0.0082 (J)	0.006 (J)				0.0088 (J)
8/30/2016		0.0413							
8/31/2016			0.0542						
9/1/2016	0.077								
9/13/2016					0.0084 (J)	0.008 (J)			
9/14/2016							0.0037 (J)		
9/15/2016				0.0087 (J)					0.009 (J)
9/19/2016								0.0069 (J)	
11/1/2016					0.0062 (J)			0.007 (J)	0.0079 (J)
11/2/2016				0.0082 (J)					
11/4/2016						0.0067 (J)	0.0059 (J)		
11/14/2016		0.0383							
11/15/2016	0.0772								
11/28/2016			0.0529						
12/15/2016							0.0056 (J)		
1/10/2017				0.0086 (J)					
1/11/2017					0.0069 (J)				0.0075 (J)
1/16/2017						0.0096 (J)	0.0049 (J)	0.0071 (J)	
2/21/2017								0.0077 (J)	
2/22/2017			0.0607						
2/24/2017		0.0351							
2/27/2017	0.0888								
3/1/2017									
3/2/2017					0.0071 (J)	0.0112			0.009 (J)
3/3/2017							0.0046 (J)		
3/8/2017				0.0088 (J)					
4/26/2017				0.0085 (J)				0.0074 (J)	0.0078 (J)
4/27/2017					0.0064 (J)	0.0106			
4/28/2017							0.0039 (J)		
5/8/2017		0.0251	0.065						

Page		YGWC-49	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	5/9/2017	0.0792								
	5/26/2017							0.0034 (J)		
1	6/27/2017					0.0054 (J)	0.0092 (J)			
1	6/28/2017							0.003 (J)		0.0071 (J)
	6/30/2017				0.0081 (J)				0.0076 (J)	
10102017	7/11/2017		0.0233							
10112017   1078   1078   1078   1012017   10	7/13/2017	0.0839								
1011  2017   0.078	7/17/2017			0.06						
100   100	10/10/2017		0.0207							
1900	10/11/2017	0.078								
3072016	10/16/2017			0.0542						
A 2021	2/19/2018			0.0533						
1000   1000	3/27/2018				<0.01		<0.01		<0.01	
A 22018	3/28/2018							<0.01		<0.01
44218   0.074	3/29/2018					<0.01				
44218   0.074	4/2/2018		0.022							
67/2018		0.074								
67/2018						0.0069 (J)				
677/2018						( )	0.0082 (J)			
611/2018							(-)	0.0037 (J)		0.0068 (J)
6/11/2018					0.007 (J)			(-,		
86/2018					(0)				0.007 (.1)	
9/19/2018				0.044					0.007 (0)	
9/20/2018			0.023	0.0						
101/12018		0.074	0.020							
10/22018		0.074			0.007 (1)	0.0062 (1)	0.0084 (1)	0.0038 ( 1)		0.0065 ( 1)
2252019					0.007 (0)	0.0002 (0)	0.0004 (0)	0.0000 (0)	0.0069 (1)	0.0000 (0)
226/2019				0.045					0.0000 (0)	
227/2019				0.043	0.0067 (1)				0.007 (1)	
3/28/2019					0.0007 (3)	0.0074 ( 1)	0.008 (1)	0.0035 (1)	0.007 (3)	0.0050 ( 1)
3/29/2019								0.0033 (3)		0.0039 (3)
4/1/2019					0.0066 ( 1)	0.0002 (3)	0.0002 (0)	0.0030 (1)		
6/12/2019					0.0000 (3)			0.0039 (3)	0.0072 (1)	0.0064 ( 1)
8/19/2019				0.063					0.0072 (3)	0.0004 (3)
8/20/2019										
9/24/2019			0.024	0.005						
9/25/2019			0.024			0.0072 (1)	0.0096 (1)	0.0028 (1)		
9/26/2019 0.065 10/8/2019 0.025 0.058 2/10/2020 0.05 0.0066 (J) 0.0091 (J) 2/11/2020 0.0036 (J) 0.0073 (J) 0.0073 (J) 0.0062 (J) 2/12/2020 0.035 0.047 3/18/2020 0.071 3/25/2020 0.071 8/26/2020 0.027 9/22/2020 0.026 0.045					0.0071 (1)	0.0072 (J)	0.0086 (J)	0.0038 (J)	0.0066 (1)	0.0050 / IV
10/8/2019 0.025 0.058 2/10/2020 0.0066 (J) 0.0091 (J) 2/11/2020 0.0036 (J) 0.0036 (J) 2/12/2020 0.035 0.047 3/17/2020 0.035 0.047 3/19/2020 0.071 8/26/2020 0.071 8/26/2020 0.071 8/26/2020 0.027 9/22/2020 0.026 (D.026) 0.045 9/23/2020 0.0068 (J) 0.0079 (J) 0.0039 (J) 0.0039 (J) 0.0051 (J)		0.005			0.0071 (3)				0.0000 (3)	0.0059 (J)
2/11/2020		0.065	0.005	0.050						
2/11/2020			0.025	0.058						
2/12/2020       0.035       0.047         3/17/2020       0.035       0.047         3/18/2020       0.0076 (J)       0.0076 (J)         3/19/2020       0.071         8/26/2020       0.071         8/27/2020       0.027         9/22/2020       0.026       0.045         9/23/2020       0.0039 (J)       0.0039 (J)       0.0051 (J)						0.0066 (J)	0.0091 (J)	0.0000 (1)		
3/17/2020 0.035 0.047 3/18/2020 0.0076 (J) 0.0084 (J) 3/19/2020 0.071 8/26/2020 0.027 9/22/2020 0.026 0.045 9/23/2020 0.0086 (J) 0.0039 (J) 0.0039 (J) 0.0051 (J)					0.007 (1)			0.0036 (J)	0.0070 (1)	0.0000 (1)
3/18/2020 0.0076 (J) 0.0084 (J) 3/19/2020 0.071 8/26/2020 0.027 9/22/2020 0.026 0.046 9/23/2020 0.026 0.045					0.007 (J)				0.0073 (J)	0.0062 (J)
3/19/2020 0.071 8/26/2020 0.071 8/26/2020 0.027 9/22/2020 0.026 0.026 0.045 9/23/2020 0.008 U 0.008 (J) 0.0079 (J) 0.0039 (J) 0.0051 (J)			0.035	0.047						
3/25/2020 0.071 8/26/2020 0.044 8/27/2020 0.027 9/22/2020 0.026 0.045 9/23/2020 0.0079 (J) 0.0039 (J) 0.0051 (J)					0.0076 (J)		0.0084 (J)			
8/26/2020 0.044 8/27/2020 0.027 9/22/2020 0.026 0.045 9/23/2020 0.0068 (J) 0.0079 (J) 0.0039 (J) 0.0051 (J)		0.074				0.0076 (J)		0.0036 (J)	U.UU/4 (J)	U.UU/2 (J)
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)		U.U/1								
9/22/2020 0.026 0.045 9/23/2020 0.0068 (J) 0.0079 (J) 0.0039 (J) 0.0051 (J)				0.044						
9/23/2020 0.0068 (J) 0.0079 (J) 0.0039 (J) 0.0051 (J)										
			0.026	0.045						
9/24/2020 0.066 0.0062 (J)						υ.0068 (J)	υ.0079 (J)	0.0039 (J)		0.0051 (J)
	9/24/2020	0.066							u.0062 (J)	

9/25/2020	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg) 0.0073 (J)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
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	

		Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
	YGWA-3I (bg)			
5/1/2007	(-9)			
9/11/2007				
3/20/2008				
8/27/2008				
3/3/2009				
11/18/2009				
3/3/2010				
9/8/2010				
3/10/2011				
9/8/2011				
3/5/2012				
9/10/2012				
2/6/2013				
8/12/2013				
2/5/2014				
8/5/2014				
2/4/2015				
8/3/2015				
2/16/2016				
6/1/2016	0.0038			
6/2/2016				
7/25/2016	0.0031 (J)			
7/26/2016				
8/30/2016				
8/31/2016				
9/1/2016				
9/13/2016				
9/14/2016	0.0027 (J)			
9/15/2016				
9/19/2016				
11/1/2016	0.0027 (J)			
11/2/2016				
11/4/2016				
11/14/2016				
11/15/2016				
11/28/2016				
12/15/2016				
1/10/2017				
1/11/2017	0.0036 (J)			
1/16/2017				
2/21/2017				
2/22/2017				
2/24/2017				
2/27/2017				
3/1/2017	0.0036 (J)			
3/2/2017				
3/3/2017				
3/8/2017				
4/26/2017	0.0038 (J)			
4/27/2017				
4/28/2017				
5/8/2017				

Constituent: Barium (mg/L) Analysis Run 4/19/2022 5:14 PM

		Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
	YGWA-3I (bg)			
5/9/2017				
5/26/2017				
6/27/2017				
6/28/2017	0.004 (J)			
6/30/2017	0.004 (0)			
7/11/2017				
7/13/2017				
7/17/2017				
10/10/2017				
10/11/2017				
10/16/2017				
2/19/2018				
3/27/2018				
3/28/2018	<0.01			
3/29/2018				
4/2/2018				
4/4/2018				
6/5/2018				
6/6/2018				
6/7/2018				
6/8/2018	0.0034 (J)			
6/11/2018				
8/6/2018				
9/19/2018				
9/20/2018				
10/1/2018	0.0034 (J)			
10/2/2018	. ,			
2/25/2019				
2/26/2019				
2/27/2019	0.0034 (J)			
3/28/2019				
3/29/2019				
4/1/2019	0.003 (J)			
6/12/2019	0.000 (0)			
8/19/2019				
8/20/2019				
9/24/2019				
9/24/2019	0.005 (J)			
9/26/2019	0.000 (0)			
10/8/2019				
2/10/2020	0.0021 (1)			
2/11/2020	0.0031 (J)			
2/12/2020				
3/17/2020				
3/18/2020	0.0000 (1)			
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	

			T IGHT 1	utes Gilerit. Couti	nem company E	rata. Flam Fates / tivis	7710	_
	PZ-35	PZ-37	YGWC-24SA	YGWC-36A	PZ-37D	PZ-52D	PZ-51	
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			0.02	0.043				
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			0.019	0.048				
10/16/2018	0.063							
3/5/2019			0.019					
3/6/2019				0.041				
4/4/2019			0.02	0.042				
9/26/2019	0.039		0.017	0.025				
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		0.04				
10/7/2020		0.000	0.004	0.04				
2/9/2021	0.000	0.036	0.031	0.005				
2/10/2021	0.032		0.005	0.035				
3/3/2021	0.022	0.000	0.025	0.028				
3/4/2021	0.033	0.036		0.028				
8/25/2021	0.067	0.035	0.025					
9/1/2021 9/3/2021	0.067		0.025	0.038	0.015			
2/10/2022	0.074	0.029	0.026	0.036	0.015		0.017	
	0.074	0.029	0.020	0.044	0.012	0.032	0.017	
2/11/2022				0.044	0.013	0.032		

2/2/22		YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/201								<0.0005	<0.0005	
6/7/201							<0.0005			<0.0005
7/27/20							<0.0005	<0.0005	<0.0005	<0.0005
7/28/20										
9/16/20							<0.0005		<0.0005	
9/19/20	)16							<0.0005		<0.0005
11/2/20	016									<0.0005
11/3/20	)16						<0.0005	<0.0005	<0.0005	
1/11/20	)17						<0.0005	<0.0005	<0.0005	
1/13/20	)17									<0.0005
3/1/201	17							<0.0005	<0.0005	
3/2/201	17						8E-05 (J)			
3/6/201	17									<0.0005
4/26/20	)17							<0.0005	<0.0005	<0.0005
5/2/201	17						<0.0005			
6/28/20	017							<0.0005	<0.0005	
6/29/20	)17						<0.0005			<0.0005
3/28/20	)18						<0.0005	<0.0005	<0.0005	
3/29/20	)18									<0.0005
6/5/201										
6/6/201										8E-05 (J)
6/7/201								<0.0005		
6/11/20							9E-05 (J)	0.0000	5.7E-05 (J)	
9/25/20							8.9E-05 (J)	<0.0005	8.2E-05 (J)	6.1E-05 (J)
10/16/2		<0.0005					0.02 00 (0)	0.0000	0.22 00 (0)	0.12 00 (0)
3/5/201		-0.0000					9.1E-05 (J)		7.9E-05 (J)	0.00011 (J)
3/6/201							3.12-03 (0)	<0.0005	7.52-03 (0)	0.00011(3)
4/2/201							9E-05 (J)	10.0003		
4/3/201							9L-03 (3)	<0.0005	7.5E-05 (J)	6.4E-05 (J)
								<0.0003	7.5L-03 (3)	0.4L-03 (3)
9/24/20							9.1E.0E.(I)			<0.0005
9/25/20		<0.000E					8.1E-05 (J)	<0.000E	9.45.05 (1)	<0.0005
9/26/20		<0.0005				0.00017 (1)		<0.0005	8.4E-05 (J)	
1/15/20						0.00017 (J)	7.05.05.410	0.0005	7.05.05.41)	
2/11/20							7.8E-05 (J)	<0.0005	7.6E-05 (J)	7.05.05.40
2/12/20										7.8E-05 (J)
3/24/20							8E-05 (J)	<0.0005	8.9E-05 (J)	7.6E-05 (J)
3/25/20		0.00037 (J)								
9/23/20			<0.0005		<0.0005		8.1E-05 (J)	<0.0005	8.8E-05 (J)	
9/24/20		5.8E-05 (J)				8.6E-05 (J)				8.3E-05 (J)
2/9/202		<0.0005	5.1E-05 (J)		<0.0005	0.00015 (J)		<0.0005	9.8E-05 (J)	6.8E-05 (J)
3/3/202		<0.0005	<0.0005		<0.0005		9.9E-05 (J)	<0.0005	0.00011 (J)	6.8E-05 (J)
3/4/202						0.00013 (J)				
8/25/20	021				<0.0005					
8/26/20						0.00012 (J)			9.3E-05 (J)	
8/27/20							0.0001 (J)	<0.0005		5.9E-05 (J)
9/1/202	21	9.5E-05 (J)	6.5E-05 (J)							
2/9/202	22						0.00011 (J)	<0.0005	8.9E-05 (J)	7.7E-05 (J)
2/10/20	)22	0.00016 (J)	7.4E-05 (J)	7.8E-05 (J)	<0.0005	0.00013 (J)				

Constituent: Beryllium (mg/L) Analysis Run 4/19/2022 5:14 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	<0.0005
7/27/2016	
7/28/2016	<0.0005
9/16/2016	
9/19/2016	<0.0005
11/2/2016	
11/3/2016	<0.0005
1/11/2017	
1/13/2017	<0.0005
3/1/2017	
3/2/2017	
3/6/2017	<0.0005
4/26/2017	<0.0005
5/2/2017	
6/28/2017	
6/29/2017	<0.0005
3/28/2018	
3/29/2018	<0.0005
6/5/2018	<0.0005
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	<0.0005
10/16/2018	
3/5/2019	<0.0005
3/6/2019	
4/2/2019	<0.0005
4/3/2019	
9/24/2019	<0.0005
9/25/2019	
9/26/2019	
1/15/2020	
2/11/2020	
2/12/2020	<0.0005
3/24/2020	<0.0005
3/25/2020	
9/23/2020	
9/24/2020	<0.0005
2/9/2021	<0.0005
3/3/2021	
3/4/2021	<0.0005
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	<0.0005
2/9/2022	<0.0005

2/10/2022

	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	.0.005			
6/7/2016						<0.0005			
7/26/2016			<0.0005	<0.0005	<0.0005				
7/28/2016						<0.0005			
8/30/2016									9E-05 (J)
8/31/2016									
9/14/2016			<0.0005	<0.0005	<0.0005				
9/20/2016						0.0001 (J)			
11/2/2016			<0.0005	<0.0005					
11/4/2016					<0.0005				
11/8/2016						<0.0005			
11/16/2016									<0.0005
1/12/2017				<0.0005	<0.0005				
1/13/2017			<0.0005						
1/16/2017						0.0001 (J)			
2/24/2017									
2/27/2017									<0.0005
3/6/2017			<0.0005						
3/7/2017				<0.0005	<0.0005				
3/9/2017						0.0001 (J)			
5/1/2017			<0.0005	<0.0005					
5/2/2017					<0.0005	9E-05 (J)			
5/10/2017									9E-05 (J)
6/27/2017				<0.0005	<0.0005				.,
6/29/2017			<0.0005						
7/10/2017						<0.0005			
7/11/2017									0.0001 (J)
10/11/2017	<0.0005								(-)
10/12/2017		0.0002 (J)					0.0057	0.0036	<0.0005
11/20/2017	<0.0005	0.0003 (J)					0.0053		
11/21/2017		(0)						0.0036	
1/10/2018		0.0003 (J)							
1/11/2018	<0.0005	0.0000 (0)						0.0037	
1/12/2018	-0.0000						0.0053	0.0007	
2/19/2018		<0.0005					0.0000	0.0039	
2/20/2018	<0.0005	-0.0000					0.0053	0.0000	
3/29/2018	10.0003		<0.0005	<0.0005	<0.0005		0.0000		
3/30/2018			10.0003	10.0003	10.0003	<0.0005			
4/3/2018	<0.0005	<0.0005				10.0003	0.0056	0.0037	
4/4/2018	<b>~0.0003</b>	<b>~0.0003</b>					0.0030	0.0037	<0.0005
6/6/2018				<0.0005					<0.0003
			<0.0005	<0.0005	<0.0005				
6/7/2018			<0.0005		<0.0005	0.45.05.41)			
6/12/2018						8.1E-05 (J)			
6/27/2018								0.0038	
6/28/2018		0.00029 (J)					0.0059		
8/7/2018	<0.0005	0.00024 (J)					0.0058	0.0037	.0.005
9/20/2018									<0.0005
9/24/2018	<0.0005	0.00019 (J)					0.0051	0.0032	
9/26/2018			<0.0005	<0.0005	<0.0005				
9/27/2018						9E-05 (J)			
3/4/2019			<0.0005	<0.0005	<0.0005				
3/6/2019						6.6E-05 (J)			

	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	7.05.05.43			
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						

Constituent: Beryllium (mg/L) Analysis Run 4/19/2022 5:14 PM

		Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
	YGWC-43			
6/2/2016				
6/7/2016				
7/26/2016				
7/28/2016				
8/30/2016				
8/31/2016	<0.0005			
9/14/2016				
9/20/2016				
11/2/2016				
11/4/2016				
11/8/2016				
11/16/2016	<0.0005			
1/12/2017				
1/13/2017				
1/16/2017				
	0.0005			
2/24/2017	<0.0005			
2/27/2017				
3/6/2017				
3/7/2017				
3/9/2017				
5/1/2017				
5/2/2017				
5/10/2017	<0.0005			
6/27/2017				
6/29/2017				
7/10/2017				
7/11/2017	<0.0005			
10/11/2017				
10/12/2017	0.0001 (J)			
11/20/2017				
11/21/2017				
1/10/2018				
1/11/2018				
1/12/2018				
2/19/2018				
2/20/2018				
3/29/2018				
3/30/2018				
4/3/2018				
	-0.0005			
4/4/2018	<0.0005			
6/6/2018				
6/7/2018				
6/12/2018				
6/27/2018				
6/28/2018				
8/7/2018				
9/20/2018	0.00029 (J)			
9/24/2018				
9/26/2018				
9/27/2018				
3/4/2019				
3/6/2019				

Constituent: Beryllium (mg/L) Analysis Run 4/19/2022 5:14 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
4/3/2019	
4/4/2019	
8/21/2019	0.0003 (J)
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	0.00034 (J)
2/12/2020	
3/24/2020	
3/25/2020	0.00034 (J)
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	0.00054 (J)
2/8/2021	
2/9/2021	0.00053 (J)
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	0.00056
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	0.00015 (J)
2/8/2022	0.00037 (J)
2/10/2022	

2/11/2022

	YGWC-49	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			0.0000		<0.0005	<0.0005			
6/2/2016				<0.0005				<0.0005	<0.0005
7/25/2016						<0.0005		<0.0005	
7/26/2016				0.0002 (J)	<0.0005	0.0000		0.0000	<0.0005
8/30/2016		<0.0005		0.0002 (0)	0.000				0.000
8/31/2016		0.0000	<0.0005						
9/1/2016	0.0001 (J)		0.0000						
9/13/2016	0.0001 (0)				<0.0005	<0.0005			
9/14/2016					0.000	0.0000	<0.0005		
9/15/2016				0.0002 (J)			0.0000		<0.0005
9/19/2016				0.0002 (0)				<0.0005	-0.0000
11/1/2016					<0.0005			<0.0005	<0.0005
11/2/2016				0.0002 (J)	-0.0000			-0.0000	-0.0000
11/4/2016				0.0002 (0)		<0.0005	<0.0005		
11/14/2016		<0.0005				10.0003	10.0003		
11/15/2016	0.0001 (J)	10.0005							
11/28/2016	0.0001 (3)		<0.0005						
12/15/2016			10.0003				<0.0005		
1/10/2017				0.0002 (J)			-0.0003		
1/11/2017				0.0002 (0)	<0.0005				<0.0005
1/16/2017					10.0000	<0.0005	<0.0005	<0.0005	10.0003
2/21/2017						<b>~0.0003</b>	<b>~0.0003</b>	<0.0005	
2/21/2017			<0.0005					<0.0005	
2/22/2017		<0.0005	<0.0003						
2/24/2017	0.0001 (J)	<0.0005							
3/1/2017	0.0001 (3)								
3/2/2017					<0.0005	<0.0005			<0.0005
3/3/2017					-0.0000	×0.0003	<0.0005		-0.0000
3/3/2017				0.0003 ( 1)			~0.0000		
3/8/2017 4/26/2017				0.0002 (J) 0.0002 (J)				<0.0005	<0.0005
4/27/2017				0.0002 (J)	<0.0005	<0.0005		~0.000	~U.UUU3
					~0.000	C00000	<0.000E		
4/28/2017 5/8/2017		7F-05 / I\	<0.0005				<0.0005		
3/0/201/		7E-05 (J)	~U.UUU3						

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	0.0001 (J)								
5/26/2017							<0.0005		
6/27/2017					<0.0005	<0.0005			
6/28/2017							<0.0005		<0.0005
6/30/2017				0.0002 (J)				<0.0005	
7/11/2017		<0.0005							
7/13/2017	0.0001 (J)								
7/17/2017			<0.0005						
10/10/2017		<0.0005							
10/11/2017	0.0001 (J)								
10/16/2017			<0.0005						
2/19/2018			<0.0005						
3/27/2018				<0.0005		<0.0005		<0.0005	
3/28/2018							<0.0005		<0.0005
3/29/2018					<0.0005				
4/2/2018		<0.0005							
4/4/2018	<0.0005								
8/6/2018			<0.0005						
9/19/2018		5.7E-05 (J)							
9/20/2018	0.00011 (J)	(-)							
2/25/2019	0.00011(0)		<0.0005						
2/26/2019			0.0000	0.00016 (J)				7.2E-05 (J)	
2/27/2019				0.00010(0)	<0.0005	<0.0005	<0.0005	7.22 00 (0)	<0.0005
3/28/2019					<0.0005	<0.0005	10.0003		10.0000
3/29/2019				0.00017 (J)	10.0005	10.0003	<0.0005		
4/1/2019				0.00017 (3)			<b>~0.0003</b>	<0.0005	<0.0005
6/12/2019			<0.0005					<0.0005	<0.0005
8/19/2019			<0.0005						
8/20/2019		<0.0005	<0.0003						
9/24/2019		<b>~0.0003</b>			<0.0005	<0.0005	<0.0005		
9/25/2019				0.00018 (J)	<0.0005	<0.0003	<0.0003	<0.0005	<0.0005
9/26/2019	0.00013 (1)			0.00018 (3)				<0.0003	<b>\0.0003</b>
10/8/2019	0.00013 (J)		<0.0005						
			<0.0005		<0.000E	<0.000E			
2/10/2020					<0.0005	<0.0005	<0.000E		
2/11/2020 2/12/2020				0.00010 (1)			<0.0005	<0.000E	<0.0005
			<0.000E	0.00019 (J)				<0.0005	<0.0005
3/17/2020 3/18/2020			<0.0005	0.00001 / 1)		<0.000E			
				0.00021 (J)	<0.000E	<0.0005	<0.000E	<0.000E	<0.000E
3/19/2020 3/25/2020	0.00013 (1)				<0.0005		<0.0005	<0.0005	<0.0005
	0.00013 (J)		-0.0005						
8/26/2020		4.75.05 (1)	<0.0005						
8/27/2020		4.7E-05 (J)	-0.0005						
9/22/2020		<0.0005	<0.0005		.0.005	.0.0005	.0.0005		.0.0005
9/23/2020	0.00010 (1)				<0.0005	<0.0005	<0.0005	.0.005	<0.0005
9/24/2020	0.00013 (J)			0.00040 (1)				<0.0005	
9/25/2020				0.00018 (J)					
2/9/2021	0.00013 (J)								
2/10/2021				0.00019 (J)			<0.0005	4.75.05.40	<0.0005
2/11/2021								4.7E-05 (J)	
2/12/2021					<0.0005	<0.0005			
3/1/2021		5.5E-05 (J)	.0.00-	0.00045 ( );				<0.0005	
3/2/2021			<0.0005	0.00018 (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)
3/3/2021					<0.0005	<0.0005	<0.0005		<0.0005
3/4/2021	0.0001 (J)								
8/19/2021		<0.0005		0.00022 (J)	<0.0005	<0.0005		<0.0005	<0.0005
8/20/2021			<0.0005						
8/27/2021							<0.0005		
9/1/2021	0.00012 (J)								
2/8/2022	0.00015 (J)	5.6E-05 (J)	<0.0005						
2/9/2022					<0.0005	<0.0005	<0.0005		<0.0005
2/10/2022				0.00025 (J)					
2/11/2022								<0.0005	

			Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
		YGWA-3I (bg)			
	5/1/2007	- (-3)			
	9/11/2007				
	3/20/2008				
	3/27/2008				
	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	2/6/2013				
8	3/12/2013				
2	2/5/2014				
8	3/5/2014				
2	2/4/2015				
8	3/3/2015				
2	2/16/2016				
(	6/1/2016	<0.0005			
(	6/2/2016				
	7/25/2016	<0.0005			
-	7/26/2016				
8	3/30/2016				
8	3/31/2016				
9	9/1/2016				
9	9/13/2016				
9	9/14/2016	<0.0005			
9	9/15/2016				
9	9/19/2016				
	11/1/2016	<0.0005			
	11/2/2016				
	11/4/2016				
	11/14/2016				
	11/15/2016				
	11/28/2016				
	12/15/2016				
	1/10/2017				
	1/11/2017	<0.0005			
	1/16/2017				
	2/21/2017				
	2/22/2017				
	2/24/2017				
	2/27/2017				
	3/1/2017	<0.0005			
	3/2/2017				
	3/3/2017				
	3/8/2017				
	1/26/2017	<0.0005			
	1/27/2017	-			
	1/28/2017				
	5/8/2017				
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Constituent: Beryllium (mg/L) Analysis Run 4/19/2022 5:14 PM

			Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
	YC	GWA-3I (bg)			
5/9/2017					
5/26/2017					
6/27/2017					
6/28/2017		.0005			
		.0005			
6/30/2017					
7/11/2017					
7/13/2017					
7/17/2017					
10/10/201					
10/11/201					
10/16/201					
2/19/2018					
3/27/2018					
3/28/2018	8 <0	.0005			
3/29/2018	8				
4/2/2018					
4/4/2018					
8/6/2018					
9/19/2018	8				
9/20/2018	В				
2/25/2019	9				
2/26/2019	9				
2/27/2019	9 <0	.0005			
3/28/2019	9				
3/29/2019	9				
4/1/2019	<0	.0005			
6/12/2019	9				
8/19/2019	9				
8/20/2019	9				
9/24/2019	9				
9/25/2019	9 <0	.0005			
9/26/2019	9				
10/8/2019	9				
2/10/2020	0				
2/11/2020	0 <0	.0005			
2/12/2020	0				
3/17/2020	0				
3/18/2020					
3/19/2020	0 <0	.0005			
3/25/2020					
8/26/2020	0				
8/27/2020					
9/22/2020					
9/23/2020		9E-05 (J)			
9/24/2020					
9/25/2020					
2/9/2021					
2/10/2021		.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	

	PZ-35	PZ-37	YGWC-24SA	YGWC-36A	PZ-37D	PZ-52D	PZ-51
6/8/2016			<0.0005				
8/1/2016			0.0001 (J)				
9/2/2016				0.0003 (J)			
9/20/2016			0.0001 (J)				
11/8/2016			<0.0005				
11/14/2016				9E-05 (J)			
1/17/2017			0.0001 (J)				
2/28/2017			. ,	0.0001 (J)			
3/8/2017			0.0001 (J)	. ,			
5/2/2017			0.0001 (J)				
5/9/2017			. ,	0.0002 (J)			
7/7/2017			0.0001 (J)	(,,			
7/13/2017				0.0003 (J)			
9/22/2017				0.0003 (J)			
9/29/2017				0.0003 (J)			
10/6/2017				0.0003 (J)			
10/12/2017		0.0004 (J)		0.0000 (0)			
11/21/2017		0.0004 (J)					
1/11/2018		0.0004 (J)					
2/20/2018		<0.0005					
3/30/2018		<b>10.0003</b>	<0.0005	<0.0005			
4/3/2018		<0.0005	<b>~0.0003</b>	<b>~0.0003</b>			
6/12/2018		<0.0005	0.00012 (1)				
6/13/2018			0.00012 (J)	0.00035 (1)			
		0.00022 (1)		0.00035 (J)			
6/29/2018		0.00033 (J)					
8/6/2018	0.00050 (1)	0.0002 (J)					
8/30/2018	0.00052 (J)						
9/24/2018		0.00029 (J)					
9/26/2018			0.00014 (J)	0.00032 (J)			
10/16/2018	0.00036 (J)						
3/5/2019			0.00016 (J)				
3/6/2019				0.00029 (J)			
4/4/2019			0.00015 (J)	0.00033 (J)			
9/26/2019	<0.0005		0.00014 (J)	0.00029 (J)			
3/25/2020	<0.0005			0.00022 (J)			
3/26/2020			0.00016 (J)				
9/23/2020			6.1E-05 (J)				
9/24/2020	0.00033 (J)						
9/25/2020		0.00031 (J)					
10/7/2020				0.00014 (J)			
2/9/2021		0.00029 (J)	0.00013 (J)				
2/10/2021	0.00025 (J)			9.9E-05 (J)			
3/3/2021			9.9E-05 (J)				
3/4/2021	0.00025 (J)	0.00017 (J)		0.00016 (J)			
8/25/2021		0.00059					
9/1/2021	0.00045 (J)		0.00014 (J)				
9/3/2021				0.00035 (J)	<0.0005		
2/10/2022	0.00055	0.001	0.00016 (J)				0.0033
2/11/2022				0.00043 (J)	<0.0005	5.9E-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							0.01		<0.04
11/3/2016						0.0077 (J)	<0.04	0.0082 (J)	-0.04
1/11/2017						0.0077 (J)	<0.04	0.0002 (J)	
1/13/2017						0.0092 (3)	<b>\0.04</b>	0.0096 (3)	<0.04
							<b>-0.04</b>	<0.04	<0.04
3/1/2017						0.0005 (1)	<0.04	<0.04	
3/2/2017						0.0095 (J)			.0.04
3/6/2017									<0.04
4/26/2017							<0.04	0.0091 (J)	<0.04
5/2/2017						<0.04			
6/28/2017							<0.04	0.0079 (J)	
6/29/2017						0.0074 (J)			<0.04
10/3/2017									
10/4/2017						0.0077 (J)		0.009 (J)	<0.04
10/5/2017							<0.04		
6/5/2018									
6/6/2018									0.0049 (J)
6/7/2018							<0.04		
6/11/2018						0.01 (J)		0.0093 (J)	
9/25/2018						0.0096 (J)	0.0046 (J)	0.007 (J)	<0.04
10/16/2018	0.2								
4/2/2019						0.0066 (J)			
4/3/2019							<0.04	0.0053 (J)	<0.04
9/24/2019									
9/25/2019						0.0081 (J)			<0.04
9/26/2019	0.092						0.0062 (J)	0.0072 (J)	
1/15/2020		0.031 (J)			8.7				
1/16/2020			6.8	1.9					
2/11/2020			4.5		7.8				
3/24/2020						0.0092 (J)	0.0054 (J)	0.01 (J)	<0.04
3/25/2020	0.018 (J)								
9/23/2020	. ,	0.026 (J)		2.5		0.0066 (J)	0.021 (J)	0.006 (J)	
9/24/2020	0.076 (J)	(1)			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	0.1				
8/26/2021				2.0	5.9			<0.04	
8/27/2021					0.0	0.011 (J)	<0.04	-0.0-1	<0.04
9/1/2021	0.18	0.017 (1)				0.011 (3)	~U.U <del>*I</del>		-U.U <del>4</del>
2/9/2022	0.18	0.017 (J)				0.0098 (J)	<0.04	<0.04	<0.04
	0.36	0.02271	7.7	2	4.0	0.0096 (3)	~U.U4	<b>~</b> 0.04	<b>~</b> 0.04
2/10/2022	0.36	0.022 (J)	7.7	3	4.9				

Constituent: Boron (mg/L) Analysis Run 4/19/2022 5:14 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	<0.04
7/27/2016	
7/28/2016	<0.04
9/16/2016	
9/19/2016	<0.04
11/2/2016	
11/3/2016	<0.04
1/11/2017	
1/13/2017	<0.04
3/1/2017	
3/2/2017	
3/6/2017	<0.04
4/26/2017	<0.04
5/2/2017	
6/28/2017	
6/29/2017	<0.04
10/3/2017	<0.04
10/4/2017	
10/5/2017	
6/5/2018	0.0092 (J)
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	0.0054 (J)
10/16/2018	
4/2/2019	0.011 (J)
4/3/2019	
9/24/2019	0.018 (J)
9/25/2019	
9/26/2019	
1/15/2020	
1/16/2020	
2/11/2020	
3/24/2020	0.016 (J)
3/25/2020	
9/23/2020	
9/24/2020	0.013 (J)
3/3/2021	
3/4/2021	0.0079 (J)
8/25/2021	
8/26/2021	
8/27/2021	.0.04
9/1/2021	<0.04
2/9/2022	<0.04

2/10/2022

		YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
	6/2/2016			<0.04	<0.04	<0.04				
	6/7/2016						0.99			
	7/26/2016			0.0047 (J)	0.0052 (J)	<0.04				
	7/28/2016						1.09			
;	8/30/2016									24.7
:	8/31/2016									
:	9/14/2016			<0.04	0.0071 (J)	0.01 (J)				
:	9/20/2016						1.35			
	11/2/2016			<0.04	<0.04					
	11/4/2016					<0.04				
	11/8/2016						1.5			
	11/16/2016									16.4
	1/12/2017				0.0076 (J)	<0.04				
	1/13/2017			<0.04						
	1/16/2017						1.67			
:	2/24/2017									
:	2/27/2017									17.9
:	3/6/2017			<0.04						
:	3/7/2017				0.0089 (J)	<0.04				
:	3/9/2017						1.44			
	5/1/2017			<0.04	0.0061 (J)					
	5/2/2017					<0.04	1.2			
	5/10/2017									20.4
	6/27/2017				0.0079 (J)	<0.04				
	6/29/2017			<0.04						
	7/10/2017						1.12			
	7/11/2017									25.2
	10/3/2017				0.0094 (J)	<0.04				
	10/5/2017			<0.04						
	10/11/2017	0.0135 (J)					1.09			
	10/12/2017		0.0401					19.3	12	20
	11/20/2017	0.0251 (J)	0.156					21.8		
	11/21/2017								12.1	
	1/10/2018		0.15							
	1/11/2018	0.0255 (J)							12.8	
	1/12/2018							18.7		
:	2/19/2018		0.146						15.2	
	2/20/2018	<0.04						18.6		
	4/3/2018	0.033 (J)	0.12					20.9	14.5	
	4/4/2018									22.7
	6/6/2018				0.0098 (J)					
	6/7/2018			0.0045 (J)		<0.04				
	6/12/2018						0.9			
(	6/27/2018								14.1	
	6/28/2018	0.053	0.16					22.7		
;	8/7/2018	0.024 (J)	0.12					19.1	11.9	
!	9/20/2018									20.3
:	9/24/2018	0.028 (J)	0.099					18.4	12.2	
:	9/26/2018			0.005 (J)	0.01 (J)	0.0057 (J)				
:	9/27/2018						0.71			
;	3/26/2019		0.096							
;	3/27/2019	0.017 (J)						16.7		20.3

	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						

		Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
	YGWC-43			
6/2/2016				
6/7/2016				
7/26/2016				
7/28/2016				
8/30/2016				
8/31/2016	0.169			
9/14/2016				
9/20/2016				
11/2/2016				
11/4/2016				
11/8/2016				
11/16/2016	0.406			
1/12/2017				
1/13/2017				
1/16/2017				
2/24/2017	0.725			
2/27/2017				
3/6/2017				
3/7/2017				
3/9/2017				
5/1/2017				
5/2/2017				
5/10/2017	0.955			
6/27/2017				
6/29/2017				
7/10/2017				
7/11/2017	0.994			
10/3/2017	0.554			
10/5/2017				
10/11/2017	1.15			
10/12/2017	1.15			
11/20/2017				
11/21/2017				
1/10/2018				
1/11/2018				
1/12/2018				
2/19/2018				
2/20/2018				
4/3/2018				
4/4/2018	1.2			
6/6/2018				
6/7/2018				
6/12/2018				
6/27/2018				
6/28/2018				
8/7/2018				
9/20/2018	2.1			
9/24/2018				
9/26/2018				
9/27/2018				
3/26/2019				
3/27/2019				

	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	

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				<0.04	<b>\0.04</b>	<b>\0.04</b>		<0.04	<0.04
7/25/2016				10.04		<0.04		<0.04	·0.04
7/26/2016				0.0177 (J)	0.0055 (J)	-0.04		-0.04	0.0097 (J)
8/30/2016		0.0166 (J)		0.0177 (0)	0.0000 (0)				0.0007 (0)
8/31/2016		0.0100 (0)	0.0315 (J)						
9/1/2016	0.0113 (J)		(1)						
9/13/2016	(,,				<0.04	<0.04			
9/14/2016							<0.04		
9/15/2016				0.0214 (J)					0.0102 (J)
9/19/2016				. ,				<0.04	· · ·
11/1/2016					0.0086 (J)			<0.04	<0.04
11/2/2016				<0.04					
11/4/2016						<0.04	<0.04		
11/14/2016		0.0166 (J)							
11/15/2016	0.0074 (J)								
11/28/2016			0.0095 (J)						
12/15/2016							0.0107 (J)		
1/10/2017				0.0198 (J)					
1/11/2017					0.0074 (J)				<0.04
1/16/2017						<0.04	<0.04	<0.04	
2/21/2017								<0.04	
2/22/2017			<0.04						
2/24/2017		0.0145 (J)							
2/27/2017	<0.04								
3/1/2017									
3/2/2017					0.008 (J)	<0.04			0.0084 (J)
3/3/2017							<0.04		
3/8/2017				0.0189 (J)					
4/26/2017				0.0161 (J)				<0.04	<0.04
4/27/2017					0.0066 (J)	<0.04			
4/28/2017							<0.04		
5/8/2017		0.0141 (J)	0.0084 (J)						
5/9/2017	<0.04								
5/26/2017							<0.04		
6/27/2017					0.0087 (J)	0.006 (J)			
6/28/2017							<0.04		<0.04
6/30/2017				0.0173 (J)				<0.04	
7/11/2017		0.0131 (J)							
7/13/2017	0.0093 (J)								
7/17/2017			0.0092 (J)						
10/3/2017					0.0072 (J)	0.0071 (J)	<0.04		
10/4/2017								<0.04	<0.04
10/5/2017				0.0173 (J)					
10/10/2017		0.0124 (J)							
10/11/2017	<0.04								
10/16/2017			<0.04						
2/19/2018			<0.04						
4/2/2018		0.013 (J)							
4/4/2018	0.0041 (J)								
6/5/2018					0.0052 (J)	.0.04			
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	

			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				
	3/30/2016				
	3/31/2016				
	9/1/2016				
	9/13/2016				
	9/14/2016	<0.04			
	9/15/2016				
9	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	2/21/2017				
2	2/22/2017				
2	2/24/2017				
2	2/27/2017				
;	3/1/2017	<0.04			
;	3/2/2017				
;	3/3/2017				
;	3/8/2017				
	1/26/2017	<0.04			
	1/27/2017				
	1/28/2017				
	5/8/2017				
	5/9/2017				
	5/26/2017				
	5/27/2017				
	5/28/2017	<0.04			
	5/30/2017				
	7/11/2017				
	7/13/2017				
	7/17/2017				
	10/3/2017	<0.04			
	10/4/2017	<0.04			
	10/5/2017				
	10/10/2017 10/11/2017				
	10/11/2017				
	2/19/2018				
	1/2/2018				
	1/4/2018				
	6/5/2018				
	6/6/2018				
•					

	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			

					. ,		
	PZ-35	PZ-37	YGWC-24SA	YGWC-36A	PZ-37D	PZ-52D	PZ-51
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			0.0 .	0.215			
3/8/2017			<0.04	0.210			
5/2/2017			0.0099 (J)				
5/9/2017			0.0055 (5)	0.233			
7/7/2017			0.0076 (J)	0.233			
			0.0076 (3)	0.262			
7/13/2017				0.262			
9/22/2017				0.238			
9/29/2017				0.235			
10/5/2017			<0.04				
10/6/2017				0.256			
10/11/2017				0.245			
10/12/2017		15.4					
11/21/2017		17.2					
1/11/2018		15.8					
2/20/2018		19.5					
4/3/2018		17.5					
6/12/2018			0.018 (J)				
6/13/2018				0.25			
6/29/2018		20.6					
8/6/2018		15.9					
8/30/2018	0.04						
9/24/2018		16.5					
9/26/2018			0.0055 (J)	0.24			
10/16/2018	0.031 (J)						
4/4/2019			<0.04	0.22			
9/26/2019	<0.04		0.0068 (J)	0.13			
3/25/2020	0.071 (J)			0.11			
3/26/2020			0.033 (J)				
9/23/2020			<0.04				
9/24/2020	0.017 (J)						
9/25/2020		14.1					
10/7/2020				0.018 (J)			
3/3/2021			<0.04	. ,			
3/4/2021	0.012 (J)	12.4		0.0088 (J)			
8/25/2021	(-)	10.3		(0)			
9/1/2021	0.044		<0.04				
9/3/2021	2.0		2.0 .	0.012 (J)	1.6		
2/10/2022	0.054	9.5	<0.04	3.012 (0)			6.8
2/11/2022		2.0	2.0 .	0.019 (J)	0.44	0.84	- <del></del>
L/ 1 1/2022				0.010 (0)	V.TT	0.04	

6/6/2016	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg) <0.0005	YGWA-18S (bg) <0.0005	YGWA-20S (bg)
6/7/2016						<0.0005			<0.0005
7/27/2016						<0.0005	<0.0005	<0.0005	<0.0005
7/28/2016									
9/16/2016						<0.0005		<0.0005	
9/19/2016							<0.0005		<0.0005
11/2/2016									<0.0005
11/3/2016						<0.0005	<0.0005	<0.0005	
1/11/2017						0.0001 (J)	<0.0005	0.0001 (J)	
1/13/2017						(-)		(1)	<0.0005
3/1/2017							<0.0005	<0.0005	
3/2/2017						<0.0005			
3/6/2017									<0.0005
4/26/2017							<0.0005	<0.0005	<0.0005
5/2/2017						<0.0005			
6/28/2017							<0.0005	<0.0005	
6/29/2017						<0.0005			<0.0005
3/28/2018						<0.0005	<0.0005	<0.0005	
3/29/2018									<0.0005
6/5/2018									
6/6/2018									<0.0005
6/7/2018							<0.0005		
6/11/2018						<0.0005		<0.0005	
9/25/2018						<0.0005	<0.0005	<0.0005	<0.0005
10/16/2018	0.00014 (J)								
3/5/2019						<0.0005		<0.0005	<0.0005
3/6/2019							<0.0005		
4/2/2019						<0.0005			
4/3/2019							<0.0005	<0.0005	<0.0005
9/24/2019									
9/25/2019						<0.0005			<0.0005
9/26/2019	<0.0005						<0.0005	<0.0005	
2/11/2020						<0.0005	<0.0005	<0.0005	
2/12/2020									<0.0005
3/24/2020						<0.0005	<0.0005	<0.0005	<0.0005
3/25/2020	<0.0005								
9/23/2020		<0.0005		<0.0005		<0.0005	<0.0005	<0.0005	
9/24/2020	0.00017 (J)				0.00018 (J)				<0.0005
2/9/2021	0.00013 (J)	<0.0005		<0.0005	0.00025 (J)		<0.0005	<0.0005	<0.0005
3/3/2021	<0.0005	<0.0005		<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
3/4/2021					0.00018 (J)				
8/25/2021				<0.0005					
8/26/2021					0.00021 (J)			<0.0005	
8/27/2021						<0.0005	<0.0005		<0.0005
9/1/2021	0.00023 (J)	<0.0005							
2/9/2022						<0.0005	<0.0005	<0.0005	<0.0005
2/10/2022	0.00018 (J)	<0.0005	<0.0005	<0.0005	0.00022 (J)				

	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	<del>-</del>

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.0005	<0.0005	<0.0005				
6/7/2016						<0.0005			
7/26/2016			<0.0005	<0.0005	<0.0005				
7/28/2016						<0.0005			
8/30/2016									<0.0005
8/31/2016									
9/14/2016			<0.0005	<0.0005	<0.0005				
9/20/2016						<0.0005			
11/2/2016			<0.0005	<0.0005					
11/4/2016					<0.0005				
11/8/2016						7E-05 (J)			
11/16/2016									<0.0005
1/12/2017				<0.0005	9E-05 (J)				
1/13/2017			<0.0005						
1/16/2017						<0.0005			
2/24/2017									
2/27/2017									<0.0005
3/6/2017			<0.0005						
3/7/2017				<0.0005	<0.0005				
3/9/2017						<0.0005			
5/1/2017			<0.0005	<0.0005					
5/2/2017					<0.0005	<0.0005			
5/10/2017									0.0002 (J)
6/27/2017				<0.0005	<0.0005				
6/29/2017			<0.0005						
7/10/2017						<0.0005			
7/11/2017									0.0005 (J)
10/11/2017	<0.0005								
10/12/2017		<0.0005					0.003	0.0002 (J)	0.0006 (J)
11/20/2017	<0.0005	<0.0005					0.0027		
11/21/2017								0.0003 (J)	
1/10/2018		<0.0005							
1/11/2018	<0.0005							0.0002 (J)	
1/12/2018							0.0029		
2/19/2018		<0.0005						<0.0005	
2/20/2018	<0.0005						0.0029		
3/29/2018			<0.0005	<0.0005	<0.0005				
3/30/2018						<0.0005			
4/3/2018	<0.0005	<0.0005					0.0027	<0.0005	
4/4/2018									<0.0005
6/6/2018				<0.0005					
6/7/2018			<0.0005		<0.0005				
6/12/2018						<0.0005			
6/27/2018								0.00025 (J)	
6/28/2018	<0.0005	<0.0005					0.0029		
8/7/2018	<0.0005	<0.0005					0.0027	0.00024 (J)	
9/20/2018									0.0002 (J)
9/24/2018	<0.0005	<0.0005					0.0027	0.00021 (J)	
9/26/2018			<0.0005	<0.0005	<0.0005			• •	
9/27/2018						<0.0005			
3/4/2019			<0.0005	<0.0005	<0.0005				
3/6/2019						<0.0005			

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
4/3/2019			<0.0005	<0.0005	<0.0005				
4/4/2019						<0.0005			
8/21/2019	<0.0005	<0.0005							
8/22/2019							0.0023 (J)	0.00015 (J)	0.00017 (J)
9/24/2019				<0.0005	<0.0005				
9/25/2019			<0.0005						
9/27/2019						<0.0005			
10/9/2019	<0.0005	<0.0005					0.0021 (J)	0.00017 (J)	0.00025 (J)
2/12/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005				
3/24/2020		<0.0005		<0.0005	<0.0005				
3/25/2020	<0.0005		<0.0005				0.0018 (J)	0.00018 (J)	0.00021 (J)
3/26/2020						<0.0005			
9/22/2020			<0.0005	<0.0005	<0.0005				
9/24/2020	<0.0005	<0.0005				<0.0005			0.00014 (J)
9/25/2020							0.0015 (J)	0.00014 (J)	
2/8/2021				<0.0005	<0.0005				
2/9/2021			<0.0005			<0.0005	0.0014 (J)		
2/10/2021	0.00019 (J)	<0.0005						<0.0005	<0.0005
3/2/2021				<0.0005	<0.0005				
3/3/2021			<0.0005						
3/4/2021	0.0003 (J)	<0.0005				<0.0005	0.0013	<0.0005	<0.0005
8/25/2021						<0.0005			<0.0005
8/26/2021	0.00049 (J)		<0.0005	<0.0005	<0.0005		0.0011	<0.0005	
9/3/2021		<0.0005							
9/27/2021									
2/8/2022	0.00063	<0.0005						0.00012 (J)	
2/10/2022				<0.0005	<0.0005	<0.0005	0.0011		<0.0005
2/11/2022			<0.0005						

Constituent: Cadmium (mg/L) Analysis Run 4/19/2022 5:14 PM

			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						
8/31/201		<0.0005				
9/14/201						
9/20/201						
11/2/201						
11/4/201						
11/8/201						
11/16/20		<0.0005				
1/12/201						
1/13/201	17					
1/16/201	17					
2/24/201	17	<0.0005				
2/27/201	17					
3/6/2017	7					
3/7/2017	7					
3/9/2017	7					
5/1/2017	7					
5/2/2017	7					
5/10/201	17	<0.0005				
6/27/201	17					
6/29/201	17					
7/10/201						
7/11/201		<0.0005				
10/11/20						
10/12/20		<0.0005				
11/20/20						
11/21/20						
1/10/201						
1/11/201						
1/12/201						
2/19/201						
2/20/201						
3/29/201						
3/30/201						
4/3/2018						
4/4/2018		<0.0005				
6/6/2018		3.0000				
6/7/2018						
6/12/201						
6/27/201						
6/28/201						
8/7/2018						
9/20/201		<0.0005				
9/24/201		-0.0000				
9/24/201						
9/27/201						
3/4/2019 3/6/2019						
3/0/2018	,					

	YGWC-43
4/3/2019	
4/4/2019	
8/21/2019	<0.0005
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	<0.0005
2/12/2020	
3/24/2020	
3/25/2020	<0.0005
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	<0.0005
2/8/2021	
2/9/2021	<0.0005
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.0005
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	<0.0005
2/8/2022	<0.0005
2/10/2022	
2/11/2022	

	YGWC-49	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		<0.000E	<0.000E			
6/1/2016				-0.0005	<0.0005	<0.0005		-0.0005	10 0005
6/2/2016				<0.0005		10.0005		<0.0005	<0.0005
7/25/2016				.0.005	.0.005	<0.0005		<0.0005	.0.0005
7/26/2016		0.0004 (1)		<0.0005	<0.0005				<0.0005
8/30/2016		0.0001 (J)							
8/31/2016			<0.0005						
9/1/2016	<0.0005								
9/13/2016					<0.0005	<0.0005			
9/14/2016							<0.0005		
9/15/2016				<0.0005					<0.0005
9/19/2016								<0.0005	
11/1/2016					<0.0005			<0.0005	<0.0005
11/2/2016				<0.0005					
11/4/2016						<0.0005	<0.0005		
11/14/2016		0.0001 (J)							
11/15/2016	<0.0005								
11/28/2016			<0.0005						
12/15/2016							<0.0005		
1/10/2017				<0.0005					
1/11/2017					0.0002 (J)				0.0001 (J)
1/16/2017						<0.0005	<0.0005	<0.0005	
2/21/2017								<0.0005	
2/22/2017			<0.0005						
2/24/2017		9E-05 (J)							
2/27/2017	7E-05 (J)								
3/1/2017									
3/2/2017					<0.0005	<0.0005			<0.0005
3/3/2017							<0.0005		
3/8/2017				7E-05 (J)					
4/26/2017				<0.0005				<0.0005	<0.0005
4/27/2017					<0.0005	<0.0005			
4/28/2017							<0.0005		
5/8/2017		0.0001 (J)	<0.0005						

	YGWC-49	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			10.0000	<0.0005		<0.0005		<0.0005	
3/28/2018				-0.0000		-0.0000	<0.0005	-0.0000	<0.0005
3/29/2018					<0.0005		<0.0003		<b>10.0003</b>
4/2/2018		<0.0005			<b>~0.0003</b>				
	<0.000E	<0.0005							
4/4/2018	<0.0005		-0.0005						
8/6/2018		.0.0005	<0.0005						
9/19/2018	.0.005	<0.0005							
9/20/2018	<0.0005								
2/25/2019			<0.0005						
2/26/2019				<0.0005				<0.0005	
2/27/2019					<0.0005	<0.0005	<0.0005		<0.0005
3/28/2019					<0.0005	<0.0005			
3/29/2019				<0.0005			<0.0005		
4/1/2019								<0.0005	<0.0005
6/12/2019			<0.0005						
8/19/2019			<0.0005						
8/20/2019		<0.0005							
9/24/2019					<0.0005	<0.0005	<0.0005		
9/25/2019				<0.0005				<0.0005	<0.0005
9/26/2019	<0.0005								
10/8/2019		<0.0005	<0.0005						
2/10/2020					<0.0005	<0.0005			
2/11/2020							<0.0005		
2/12/2020				<0.0005				<0.0005	<0.0005
3/17/2020		<0.0005	<0.0005						
3/18/2020				<0.0005		<0.0005			
3/19/2020					<0.0005		<0.0005	<0.0005	<0.0005
3/25/2020	<0.0005								
8/26/2020			<0.0005						
8/27/2020		<0.0005							
9/22/2020			<0.0005						
9/23/2020					<0.0005	<0.0005	<0.0005		<0.0005
9/24/2020	<0.0005							<0.0005	
9/25/2020				<0.0005					
2/9/2021	<0.0005								
2/10/2021				<0.0005			<0.0005		<0.0005
2/11/2021								<0.0005	
2/12/2021					<0.0005	<0.0005			
3/1/2021								<0.0005	
3/2/2021			<0.0005	<0.0005					

	YGWC-49	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	

		Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
	YGWA-3I (bg)			
5/1/2007	- (-0/			
9/11/2007				
3/20/2008				
8/27/2008				
3/3/2009				
11/18/2009				
3/3/2010				
9/8/2010				
3/10/2011				
9/8/2011				
3/5/2012				
9/10/2012				
2/6/2013				
8/12/2013				
2/5/2014				
8/5/2014				
2/4/2015				
8/3/2015				
2/16/2016				
6/1/2016	<0.0005			
6/2/2016				
7/25/2016	<0.0005			
7/26/2016				
8/30/2016				
8/31/2016				
9/1/2016				
9/13/2016				
9/14/2016	<0.0005			
9/15/2016				
9/19/2016				
11/1/2016	<0.0005			
11/2/2016				
11/4/2016				
11/14/2016				
11/15/2016				
11/28/2016				
12/15/2016				
1/10/2017				
1/11/2017	8E-05 (J)			
1/16/2017				
2/21/2017				
2/22/2017				
2/24/2017				
2/27/2017				
3/1/2017	<0.0005			
3/2/2017				
3/3/2017				
3/8/2017				
4/26/2017	<0.0005			
4/27/2017				
4/28/2017				
5/8/2017				

		Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
	YGWA-3I (bg)			
5/9/2017				
5/26/2017				
6/27/2017				
6/28/2017	<0.0005			
6/30/2017				
7/11/2017				
7/13/2017				
7/17/2017				
10/10/2017				
10/11/2017				
10/16/2017				
2/19/2018				
3/27/2018				
3/28/2018	<0.0005			
3/29/2018				
4/2/2018				
4/4/2018				
8/6/2018				
9/19/2018				
9/20/2018				
2/25/2019				
2/26/2019				
2/27/2019	<0.0005			
3/28/2019				
3/29/2019				
4/1/2019	<0.0005			
6/12/2019				
8/19/2019				
8/20/2019				
9/24/2019				
9/25/2019	<0.0005			
9/26/2019				
10/8/2019				
2/10/2020				
2/11/2020	<0.0005			
2/12/2020				
3/17/2020				
3/18/2020				
3/19/2020	<0.0005			
3/25/2020				
8/26/2020				
8/27/2020				
9/22/2020				
9/23/2020	<0.0005			
9/24/2020				
9/25/2020				
2/9/2021				
2/10/2021	<0.0005			
2/10/2021	5.5555			
2/11/2021				
3/1/2021				
3/2/2021				
JIZIZUZ I				

	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	

					. ,		
	PZ-35	PZ-37	YGWC-24SA	YGWC-36A	PZ-37D	PZ-52D	PZ-51
6/8/2016			<0.0005				
8/1/2016			<0.0005				
9/2/2016				<0.0005			
9/20/2016			<0.0005				
11/8/2016			<0.0005				
11/14/2016				9E-05 (J)			
1/17/2017			<0.0005				
2/28/2017				0.0001 (J)			
3/8/2017			<0.0005				
5/2/2017			<0.0005				
5/9/2017				0.0002 (J)			
7/7/2017			<0.0005				
7/13/2017				0.0002 (J)			
9/22/2017				0.0002 (J)			
9/29/2017				0.0002 (J)			
10/6/2017				0.0002 (J)			
10/12/2017		0.0002 (J)					
11/21/2017		0.0002 (J)					
1/11/2018		0.0004 (J)					
2/20/2018		<0.0005					
3/30/2018			<0.0005	<0.0005			
4/3/2018		<0.0005					
6/12/2018			<0.0005				
6/13/2018				0.00019 (J)			
6/29/2018		0.00099 (J)					
8/6/2018		0.00063 (J)					
9/24/2018		0.00069 (J)					
9/26/2018			<0.0005	0.00018 (J)			
10/16/2018	<0.0005						
3/5/2019			<0.0005				
3/6/2019				0.00015 (J)			
4/4/2019			<0.0005	0.00019 (J)			
9/26/2019	<0.0005		<0.0005	0.00017 (J)			
3/25/2020	0.00016 (J)			0.00019 (J)			
3/26/2020			<0.0005				
9/23/2020			<0.0005				
9/24/2020	<0.0005						
9/25/2020		0.00039 (J)					
10/7/2020				0.00012 (J)			
2/9/2021		0.00042 (J)	<0.0005				
2/10/2021	<0.0005			<0.0005			
3/3/2021			<0.0005				
3/4/2021	<0.0005	0.00028 (J)		<0.0005			
8/25/2021		0.00094					
9/1/2021	<0.0005		<0.0005				
9/3/2021				<0.0005	<0.0005		
2/10/2022	<0.0005	0.00093	<0.0005	.0.005	.0.005	.0.005	0.0019
2/11/2022				<0.0005	<0.0005	<0.0005	

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							6.2	1.4	
6/7/2016						2.2			2.3
7/27/2016						2	4.73	1.19	2.08
7/28/2016									
9/16/2016						1.97		1.5	
9/19/2016							4.76		1.97
11/2/2016									2.13
11/3/2016						1.99	5.25	1.31	
1/11/2017						2.28	4.74	1.25	
1/13/2017									2.45
3/1/2017							5.37	1.26	
3/2/2017						2.15			
3/6/2017									2.48
4/26/2017							4.28	1.05	2.3
5/2/2017						1.95			
6/28/2017							4.95	1.06	
6/29/2017						2.02			2.54
10/3/2017									
10/4/2017						2.03		1.1	2.25
10/5/2017							5.28		
6/5/2018									
6/6/2018									2.3
6/7/2018							4.8		
6/11/2018						2.1		1.4	
9/25/2018						2.1	4.6	1	2.3
10/16/2018	14.5 (J)								
4/2/2019						2.5			
4/3/2019							5.3	1.2	2.9
9/24/2019									
9/25/2019						2.6			2.4
9/26/2019	9.3						4.9	1.1	
3/24/2020						2.7	5.3	1	2.6
3/25/2020	4.5								
9/23/2020		1.7		10.5		2.6	5.2	0.91 (J)	
9/24/2020	4.8				61.3				2.6
3/3/2021	6.9	1.5		20.6		2.5	5.2	0.96 (J)	2.4
3/4/2021					53.8				
8/25/2021				11					
8/26/2021					45			0.98 (J)	
8/27/2021						2.7	5.1		2.4
9/1/2021	16.8	1.4							
9/3/2021			42.5						
2/9/2022						2.8	5.1	0.87 (J)	2.3
2/10/2022	21.5	1.3	29.4	11.6	40.8				

Constituent: Calcium (mg/L) Analysis Run 4/19/2022 5:14 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	3.7
7/27/2016	
7/28/2016	3.15
9/16/2016	
9/19/2016	3.17
11/2/2016	
11/3/2016	3.4
1/11/2017	
1/13/2017	4.98
3/1/2017	
3/2/2017	
3/6/2017	6.28
4/26/2017	6.65
5/2/2017	
6/28/2017	
6/29/2017	6.04
10/3/2017	8.28
10/4/2017	
10/5/2017	
6/5/2018	9.1
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	10.4 (J)
10/16/2018	
4/2/2019	8.8
4/3/2019	
9/24/2019	7.7
9/25/2019	
9/26/2019	
3/24/2020	6
3/25/2020	
9/23/2020	
9/24/2020	7.8
3/3/2021	
3/4/2021	8.7
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	9.5
9/3/2021	
2/9/2022	9.8

2/10/2022

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			8.8	33	2.4				
6/7/2016						9.6			
7/26/2016			7.69	32.3	2.12				
7/28/2016						7.87			
8/30/2016									133
8/31/2016									
9/14/2016			8.49	31	2.18				
9/20/2016						9.28			
11/2/2016			7.83	30.9		5.25			
11/4/2016			7.00	00.0	2.17 (J)				
11/8/2016					2 (0)	8.6			
11/16/2016						0.0			125
1/12/2017				35.7	2.37				123
1/13/2017			8.08	33.7	2.37				
1/16/2017			0.00			8.85			
2/24/2017						6.65			
2/27/2017									139
			0.64						139
3/6/2017			8.64	20.7	0.04				
3/7/2017				32.7	2.34	0.4			
3/9/2017			10.4	07		8.4			
5/1/2017			13.4	37					
5/2/2017					2.17	12.9			
5/10/2017									130
6/27/2017				36.5	2.13				
6/29/2017			8.81						
7/10/2017						8.09			
7/11/2017									172
10/3/2017				30.9	2.15				
10/5/2017			9.29						
10/11/2017	2.74					6.36			
10/12/2017		2.9					190	44.5	144
11/20/2017	1.81	10.4					184		
11/21/2017								44.4	
1/10/2018		10.2							
1/11/2018	1.54							43.9	
1/12/2018							178		
2/19/2018		<25						45.3	
2/20/2018	1.71						184		
4/3/2018	1.4	6.3					174	42.7	
4/4/2018									137
6/6/2018				26.2					
6/7/2018			8.2		2.3				
6/12/2018						4.7			
6/27/2018								42.2	
6/28/2018	1.4	6.7					190		
8/7/2018	1.2	6.3					176	40.7	
9/20/2018									108
9/24/2018	1.1	5.7					172	38.5	
9/26/2018			9.5 (J)	25.8	2.3				
9/27/2018						4.1			
3/26/2019		5.6							
3/27/2019	1.5						155		109

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/28/2019								26	
4/3/2019			8.4	24.7 (J)	2.8				
4/4/2019						3.7			
9/24/2019				25.8	2.5				
9/25/2019			9.5						
9/27/2019						3.7			
10/9/2019	2.4	4.9					133	27.6	92
3/24/2020		4.8		26.1	2.5				
3/25/2020	2.7		10.5				124	29.6	107
3/26/2020						5.6			
9/22/2020			9.6	27.2	2.6				
9/24/2020	3.7	4.4				7.9			84.3
9/25/2020							93.7	20.5	
3/2/2021				1.6	2.6				
3/3/2021			7.7						
3/4/2021	8.2	4.6				10.2	87	16.4	90.7
8/25/2021						10.6			79.9
8/26/2021	14.1		7.6	25.2	2.5		73.6	12.8	
9/3/2021		5.6							
9/27/2021									
2/8/2022	15.2	6						15	
2/10/2022				24.8	2.5	11.8	68.9		74.4
2/11/2022			7.5						

		Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
	YGWC-43			
6/2/2016				
6/7/2016				
7/26/2016				
7/28/2016				
8/30/2016				
8/31/2016	3.4			
9/14/2016				
9/20/2016				
11/2/2016				
11/4/2016				
11/8/2016				
11/16/2016	3.79			
1/12/2017				
1/13/2017				
1/16/2017				
2/24/2017	6.42			
2/27/2017				
3/6/2017				
3/7/2017				
3/9/2017				
5/1/2017				
5/2/2017				
5/10/2017	7.9			
6/27/2017				
6/29/2017				
7/10/2017				
7/11/2017	6.71			
10/3/2017				
10/5/2017				
10/11/2017				
10/11/2017	7.05			
11/20/2017	7.00			
11/21/2017				
1/10/2018				
1/11/2018				
1/12/2018				
2/19/2018				
2/20/2018				
4/3/2018				
4/4/2018	8.6			
6/6/2018				
6/7/2018				
6/12/2018				
6/27/2018				
6/28/2018				
8/7/2018				
9/20/2018	15.9 (J)			
9/24/2018				
9/26/2018				
9/27/2018				
3/26/2019				
3/27/2019				

	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	

	YGWC-49	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			23		29.1
6/11/2018				1.1				1.1	
8/6/2018			11.4 (J)					1.1	
9/19/2018		11.1 (J)	11.4 (0)						
9/20/2018	12 (J)	11.1 (0)							
10/1/2018	12 (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)	(=)						
3/28/2019	11.3 (J)	- (-,			13.3 (J)	2.2			
3/29/2019	- (-)			1.1			23.5 (J)		
4/1/2019							- (-)	1.3	30.1
6/12/2019			18.9						
9/24/2019					15.8	2.3	26.4		
9/25/2019				1.1				1.1	29.5
9/26/2019	12.1								
10/8/2019		9.7	28.3						
3/17/2020		14.8	24.3						
3/18/2020				1.1		2.1			
3/19/2020					15		27.4	1.2	31.5
3/25/2020	13.2								
9/22/2020		10.1	31						
9/23/2020					14.1	1.8	26.3		28.6
9/24/2020	12							1.1	
9/25/2020				1.3					
3/1/2021		10.3						1.2	
3/2/2021			34.2	1.2					
3/3/2021					14.1	1.8	25.6		29.8
3/4/2021	13								
8/19/2021		9.6		1.2	14.2	2		1.2	28.1
8/20/2021			26.5						
8/27/2021							22.6		
9/1/2021	12.1								
2/8/2022	12.7	9.4	25.6						
2/9/2022					14.9	2.1	23.4		30.3
2/10/2022				1.3					
2/11/2022								1.5	

		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	25.5			
8/30/2016				
8/31/2016				
9/1/2016				
9/13/2016				
9/14/2016	19.7			
9/15/2016	15.7			
9/19/2016	10.4			
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	00.0			
1/11/2017	20.3			
1/16/2017				
2/21/2017				
2/22/2017				
2/24/2017				
2/27/2017				
3/1/2017	18.6			
3/2/2017				
3/3/2017				
3/8/2017				
4/26/2017	25.6			
4/27/2017				
4/28/2017				
5/8/2017				
5/9/2017				
5/26/2017				
6/27/2017	22.0			
6/28/2017	23.9			
6/30/2017				
7/11/2017				
7/13/2017				
7/17/2017				
10/3/2017	00.4			
10/4/2017	22.1			
10/5/2017				
10/10/2017				
10/11/2017				
10/16/2017				
2/19/2018				
4/2/2018				
4/4/2018				
6/5/2018				
6/6/2018				

Constituent: Calcium (mg/L) Analysis Run 4/19/2022 5:14 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWA-3I (bg)
21.9 (J)
19.7
20.4 (J)
22.4
21.9
23.6
20.6
24.7
23.7

2/11/2022

			Plant fate	es Client: Souther	Company Data:	Plant fales AMA-Ro	
	PZ-35	PZ-37	YGWC-24SA	YGWC-36A	PZ-37D	PZ-52D	PZ-51
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			1.7	19.8 (J)			
10/16/2018	6.5						
4/4/2019			1.9	16.9 (J)			
9/26/2019	4.7		1.7	11.7			
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	2.2				54.7
2/11/2022				4.6	49	27.3	

	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						4.5	6.8	6.4	10
6/7/2016						4.5			1.9
7/27/2016						4.5	6.7	6.2	1.9
7/28/2016									
9/16/2016						4.5		6.1	
9/19/2016							7		1.9
11/2/2016									2.6
11/3/2016						5.4	7.5	7.4	
1/11/2017						4.7	6.5	6.1	
1/13/2017									2.3
3/1/2017							6.9	6	
3/2/2017						4.8			
3/6/2017									1.9
4/26/2017							7	6.5	2
5/2/2017						4.6			
6/28/2017							7	6.4	
6/29/2017						4.5			2.6
10/3/2017									
10/4/2017						4.7		6.8	2.6
10/5/2017							7		
6/5/2018									
6/6/2018									2.7
6/7/2018							6.8		
6/11/2018						4.9		6.8	
9/25/2018						5.6	7.9	7.8	3.6
10/16/2018	12.1								
4/2/2019						4.8			
4/3/2019							6.9	6.3	3.1
9/24/2019									
9/25/2019						5.7			2.8
9/26/2019	6.4						7	7.1	
3/24/2020						5	7	6.8	2.7
3/25/2020	7.7								
9/23/2020	•••	2.7		1.8		6.6	7.2	7.2	
9/24/2020	6.6				3.7	0.0	7.2	7.2	2.7
3/3/2021	6.1	2.5		22.9	···	7.1	7	7.2	2.7
3/4/2021	0.1	2.0		22.5	3.7	7.1	,	7.2	2.7
8/25/2021				1.5	3.7				
				1.5	3.9			7.3	
8/26/2021					J.8	0.5	7.4	1.3	2.0
8/27/2021	E 7	2.6				8.5	7.4		2.8
9/1/2021	5.7	2.6				10.0	7.5	7	0.0
2/9/2022	5.0	0.5			0.0	10.9	7.5	7	2.8
2/10/2022	5.3	2.5	3.2	1.4	3.9				

Constituent: Chloride (mg/L) Analysis Run 4/19/2022 5:14 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	2.8
7/27/2016	
7/28/2016	2.6
9/16/2016	
9/19/2016	2.4
11/2/2016	
11/3/2016	2.9
1/11/2017	
1/13/2017	2.5
3/1/2017	
3/2/2017	
3/6/2017	2.1
4/26/2017	2.1
5/2/2017	
6/28/2017	
6/29/2017	2.8
10/3/2017	2.2
10/4/2017	
10/5/2017	
6/5/2018	1.7
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	2.2
10/16/2018	
4/2/2019	2.5
4/3/2019	
9/24/2019	3.1
9/25/2019	
9/26/2019	
3/24/2020	2.8
3/25/2020	
9/23/2020	
9/24/2020	2
3/3/2021	
3/4/2021	1.8
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	1.8
2/9/2022	1.7

2/10/2022

	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						

		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				

	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	

6/	/1/2016	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg) 1.3	YGWA-1I (bg) 1.6	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
	/2/2016				4.1	1.5	1.0		1.9	1.4
					4.1		1.4			1.4
	/25/2016 /26/2016				4	1.2	1.4		1.7	1.6
	/30/2016		5.2		4	1.2				1.0
	/31/2016		5.2	4						
		F 2		4						
	/1/2016	5.3				1.1	1.2			
	/13/2016					1.1	1.3	4.4		
	/14/2016				4.2			1.1		15
	/15/2016				4.2				1.0	1.5
	/19/2016					10			1.6	17
	1/1/2016				4.0	1.3			1.8	1.7
	1/2/2016				4.9		1.0	4.4		
	1/4/2016		0.4				1.6	1.4		
	1/14/2016		6.4							
	1/15/2016	5.8		4.0						
	1/28/2016			4.2				0.0		
	2/15/2016							2.9		
	/10/2017				4.1					
	/11/2017					1.1				1.2
	/16/2017						1.4	0.98	1.7	
	/21/2017								1.7	
	/22/2017			3.7						
	/24/2017		5.5							
	/27/2017	4.6								
	/1/2017									
	/2/2017					1	1.3			1.2
	/3/2017							1.1		
	/8/2017				4.2					
	/26/2017				4.1		1.0		1.7	1.2
	/27/2017					1	1.3	0.04		
	/28/2017		5.0	10				0.91		
	/8/2017	5.0	5.8	4.2						
	/9/2017	5.3						0.00		
	/26/2017							0.93		
	/27/2017					1.1	1.4			10
	/28/2017				2.7			1	1.0	1.3
	/30/2017		5.0		3.7				1.8	
	/11/2017	4.7	5.8							
	/13/2017	4.7		2.0						
	/17/2017 0/3/2017			3.8		1.1	17	1.0		
						1.1	1.7	1.2	1.0	15
	0/4/2017				2.0				1.8	1.5
	0/5/2017 0/10/2017		5.9		3.8					
		F 9	5.9							
	0/11/2017 0/16/2017	5.8		4.2						
	/19/2018			4.2						
	/2/2018		4.8	4.3						
	/4/2018	4.3	7.0							
	/5/2018	7.0				1.1				
	/6/2018					1.1	1.4			
0/	1012010						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		1.2
				3.4				2	
6/11/2018 8/6/2018			2.0					2	
		4	3.8						
9/19/2018 9/20/2018	4.8	4							
10/1/2018	4.0			3.8	1.1	1.4	1.1		1.5
10/1/2018				3.6	1.1	1.4	1.1	1.8	1.5
2/25/2019			4.1					1.0	
3/27/2019		4.3	4.1						
3/28/2019	4.4	4.5			1.4	1.5			
3/29/2019	4.4			4.2	1.4	1.5	1.2		
4/1/2019				4.2			1.2	1.7	1.2
6/12/2019			4.7					1.7	1.2
9/24/2019			4.7		1.1	1.3	0.95 (J)		
9/25/2019				4.8	1.1	1.5	0.55 (5)	1.6	1.1
9/26/2019	5			4.0				1.0	1.1
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	

		Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
	YGWA-3I (bg)			
6/1/2016	1.3			
6/2/2016				
7/25/2016	1.3			
7/26/2016				
8/30/2016				
8/31/2016				
9/1/2016				
9/13/2016				
9/14/2016	1.3			
9/15/2016				
9/19/2016				
11/1/2016	1.4			
11/2/2016				
11/4/2016				
11/14/2016				
11/15/2016				
11/28/2016				
12/15/2016				
1/10/2017				
1/11/2017	1.1			
1/16/2017				
2/21/2017				
2/22/2017 2/24/2017				
2/27/2017				
3/1/2017	1.1			
3/2/2017				
3/3/2017				
3/8/2017				
4/26/2017	1.1			
4/27/2017				
4/28/2017				
5/8/2017				
5/9/2017				
5/26/2017				
6/27/2017				
6/28/2017	1.2			
6/30/2017				
7/11/2017				
7/13/2017				
7/17/2017 10/3/2017				
10/3/2017	1.2			
10/4/2017	1.2			
10/3/2017				
10/11/2017				
10/16/2017				
2/19/2018				
4/2/2018				
4/4/2018				
6/5/2018				
6/6/2018				

Constituent: Chloride (mg/L) Analysis Run 4/19/2022 5:14 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/7/2018	
6/8/2018	1.2
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	1.2
10/2/2018	
2/25/2019	
3/27/2019	
3/28/2019	
3/29/2019	
4/1/2019	1.1
6/12/2019	
9/24/2019	
9/25/2019	1.1
9/26/2019	
10/8/2019	
3/17/2020	
3/18/2020	
3/19/2020	1.1
3/25/2020	
9/22/2020	
9/23/2020	1
9/24/2020	
9/25/2020	
3/1/2021	
3/2/2021	
3/3/2021	0.99 (J)
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	1.1
9/1/2021	
2/8/2022	
2/9/2022	1.1
2/10/2022	

2/11/2022

			riant ra		company bata		
	PZ-35	PZ-37	YGWC-24SA	YGWC-36A	PZ-37D	PZ-52D	PZ-51
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			6.9	6			
10/16/2018	8.5						
4/4/2019			5.9	5.4			
9/26/2019	7.5		6.5	7.1			
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	8.7				4.2
2/11/2022				6.6	12.5	6.7	

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							0.0012 (J)	<0.005	
6/7/2016						<0.005			<0.005
7/27/2016						0.0008 (J)	0.0007 (J)	0.0006 (J)	0.0005 (J)
7/28/2016									
9/16/2016						<0.005		<0.005	
9/19/2016							<0.005		<0.005
11/2/2016									<0.005
11/3/2016						<0.005	<0.005	<0.005	
1/11/2017						<0.005	<0.005	<0.005	
1/13/2017									<0.005
3/1/2017							0.0012 (J)	<0.005	
3/2/2017						0.001 (J)			
3/6/2017									<0.005
4/26/2017							0.0005 (J)	0.0003 (J)	0.0007 (J)
5/2/2017						0.0007 (J)			
6/28/2017							0.0006 (J)	<0.005	
6/29/2017						0.0006 (J)			0.0005 (J)
3/28/2018						<0.005	<0.005	<0.005	
3/29/2018									<0.005
3/5/2019						<0.005		<0.005	<0.005
3/6/2019							<0.005		
2/11/2020						0.00087 (J)	0.001 (J)	0.00088 (J)	
2/12/2020									0.00045 (J)
3/24/2020						0.00087 (J)	0.00095 (J)	0.0011 (J)	0.00077 (J)
3/25/2020	0.00058 (J)								
9/23/2020		0.00071 (J)		<0.005		0.00098 (J)	0.00092 (J)	0.0012 (J)	
9/24/2020	0.00074 (J)				<0.005				0.00076 (J)
2/9/2021	0.001 (J)	0.0011 (J)		0.00057 (J)	<0.005		0.00083 (J)	0.0013 (J)	0.00056 (J)
3/3/2021	0.00076 (J)	0.0012 (J)		<0.005		0.00082 (J)	0.00087 (J)	0.001 (J)	<0.005
3/4/2021					<0.005				
8/25/2021				<0.005					
8/26/2021					<0.005			<0.005	
8/27/2021						<0.005	<0.005		<0.005
9/1/2021	<0.005	0.003 (J)							
2/9/2022						<0.005	<0.005	0.0014 (J)	<0.005
2/10/2022	0.0013 (J)	<0.005	0.0011 (J)	<0.005	0.0016 (J)				

Constituent: Chromium (mg/L) Analysis Run 4/19/2022 5:14 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	<0.005
7/27/2016	
7/28/2016	<0.005
9/16/2016	
9/19/2016	<0.005
11/2/2016	
11/3/2016	<0.005
1/11/2017	
1/13/2017	<0.005
3/1/2017	
3/2/2017	
3/6/2017	<0.005
4/26/2017	<0.005
5/2/2017	
6/28/2017	
6/29/2017	<0.005
3/28/2018	
3/29/2018	<0.005
3/5/2019	<0.005
3/6/2019	
2/11/2020	
2/12/2020	<0.005
3/24/2020	<0.005
3/25/2020	
9/23/2020	
9/24/2020	<0.005
2/9/2021	<0.005
3/3/2021	
3/4/2021	<0.005
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	<0.005
2/9/2022	<0.005

2/10/2022

	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			<0.005	<0.005	<0.005	<0.005			
7/26/2016			<0.005	<0.005	<0.005	10.003			
7/28/2016			<0.005	<0.005	<0.005	0.0008 (1)			
						0.0008 (J)			10.005
8/30/2016									<0.005
8/31/2016									
9/14/2016			<0.005	<0.005	<0.005				
9/20/2016						<0.005			
11/2/2016			<0.005	<0.005					
11/4/2016					<0.005				
11/8/2016						<0.005			
11/16/2016									<0.005
1/12/2017				<0.005	<0.005				
1/13/2017			<0.005						
1/16/2017						<0.005			
2/24/2017									
2/27/2017									<0.005
3/6/2017			<0.005						
3/7/2017				<0.005	<0.005				
3/9/2017						<0.005			
5/1/2017			<0.005	0.0004 (J)					
5/2/2017					<0.005	0.0007 (J)			
5/10/2017									0.0006 (J)
6/27/2017				<0.005	<0.005				
6/29/2017			<0.005						
7/10/2017						<0.005			
7/11/2017									<0.005
10/11/2017	<0.005								
10/12/2017		<0.005					0.0005 (J)	<0.005	<0.005
11/20/2017	<0.005	<0.005					<0.005		
11/21/2017								<0.005	
1/10/2018		<0.005							
1/11/2018	<0.005							<0.005	
1/12/2018							<0.005		
2/19/2018		<0.005						<0.005	
2/20/2018	<0.005						<0.005		
3/29/2018			<0.005	<0.005	<0.005				
3/30/2018						<0.005			
4/3/2018	<0.005	<0.005					<0.005	<0.005	
4/4/2018									<0.005
6/27/2018								<0.005	
6/28/2018	<0.005	<0.005					<0.005		
8/7/2018	<0.005	<0.005					<0.005	<0.005	
9/20/2018									<0.005
9/24/2018	<0.005	<0.005					<0.005	<0.005	0.000
3/4/2019			<0.005	<0.005	<0.005				
3/6/2019			5.550	5.550	5.550	<0.005			
8/21/2019	<0.005	0.00053 (J)				.0.003			
8/22/2019	<b>NO.003</b>	0.00033 (3)					<0.005	<0.005	<0.005
10/9/2019	<0.005	0.001271					<0.005	<0.005	0.00043 (J)
		0.0012 (J)	<0.00E	<0.00E	0.00043 ( !)		~0.005	~0.000	0.00043 (3)
2/12/2020 3/24/2020	<0.005	0.00065 (J) 0.00055 (J)	<0.005	<0.005 <0.005	0.00043 (J) 0.0014 (J)				
J12412UZU		0.00000 (J)		~0.000	0.0014 (3)				

0/05/0000	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						

Constituent: Chromium (mg/L) Analysis Run 4/19/2022 5:14 PM

		Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
	YGWC-43			
6/2/2016				
6/7/2016				
7/26/2016				
7/28/2016				
8/30/2016				
8/31/2016	<0.005			
9/14/2016				
9/20/2016				
11/2/2016				
11/4/2016				
11/8/2016				
11/16/2016	<0.005			
1/12/2017				
1/13/2017				
1/16/2017				
2/24/2017	<0.005			
2/27/2017				
3/6/2017				
3/7/2017				
3/9/2017				
5/1/2017				
5/2/2017				
5/10/2017	0.0005 (J)			
6/27/2017				
6/29/2017				
7/10/2017				
7/11/2017	<0.005			
10/11/2017				
10/12/2017	<0.005			
11/20/2017				
11/21/2017 1/10/2018				
1/11/2018				
1/11/2018				
2/19/2018				
2/20/2018				
3/29/2018				
3/30/2018				
4/3/2018				
4/4/2018	<0.005			
6/27/2018				
6/28/2018				
8/7/2018				
9/20/2018	<0.005			
9/24/2018				
3/4/2019				
3/6/2019				
8/21/2019	0.00062 (J)			
8/22/2019				
10/9/2019	0.00074 (J)			
2/12/2020				
3/24/2020				

	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	

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			0.0029						
9/11/2007			0.0084						
3/20/2008			0.0027						
8/27/2008			0.0026						
3/3/2009			0.0022						
11/18/2009			0.0036						
3/3/2010			<0.005						
9/8/2010			<0.005						
3/10/2011			<0.005						
9/8/2011			<0.005						
3/5/2012			<0.005						
9/10/2012			<0.005						
2/6/2013			<0.005						
8/12/2013			<0.005						
2/5/2014			0.0059						
8/5/2014			<0.005						
2/4/2015			<0.005						
8/3/2015			0.0011 (J)						
2/16/2016			<0.005						
6/1/2016			0.000		0.0035	<0.005			
6/2/2016				<0.005				<0.005	0.0013 (J)
7/25/2016				0.000		<0.005		<0.005	0.0010 (0)
7/26/2016				<0.005	<0.005	0.000		0.000	<0.005
8/30/2016		<0.005		10.000	10.003				10.000
8/31/2016		10.000	<0.005						
9/1/2016	0.0013 (J)		<b>~0.003</b>						
9/13/2016	0.0013 (3)				<0.005	<0.005			
9/14/2016					<b>~0.003</b>	<b>~0.003</b>	<0.005		
				<0.00E			<0.005		<0.00E
9/15/2016				<0.005				-0.005	<0.005
9/19/2016					-0.005			<0.005	-0.005
11/1/2016				.0.005	<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				<0.005		<0.005		<0.005	
3/28/2018							<0.005		<0.005
3/29/2018					<0.005				
4/2/2018		<0.005							
4/4/2018	<0.005								
8/6/2018			<0.005						
9/19/2018		<0.005	-0.000						
9/20/2018	0.0017 (J)	-0.003							
2/25/2019	0.0017 (3)		<0.005						
			<0.005	<0.00E				<0.00E	
2/26/2019				<0.005	-0.005	-0.005	-0.005	<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	V-7			<0.005			<0.005		<0.005
2/11/2021								<0.005	
2/11/2021					<0.005	<0.005		3.000	
3/1/2021		<0.005			3.000	3.000		<0.005	
3/2/2021		5.000	<0.005	<0.005				5.000	
3/3/2021			-0.000	-0.000	<0.005	<0.005	<0.005		<0.005
0, 0, 202 I					-0.003	-0.000	-0.003		-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)
3/4/2021	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	

		Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
	YGWA-3I (bg)			
5/1/2007	(-9)			
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	-0.000			
7/25/2016	<0.005			
7/26/2016	10.000			
8/30/2016				
8/31/2016				
9/1/2016				
9/13/2016				
9/14/2016	<0.005			
9/15/2016	<b>10.003</b>			
9/19/2016				
11/1/2016	<0.005			
11/2/2016	10.000			
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	-0.000			
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				
- *				

		Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
	YGWA-3I (bg)			
5/9/2017				
5/26/2017				
6/27/2017				
6/28/2017	<0.005			
	<b>10.005</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			
2/10/2021	5.555			
2/11/2021				
3/1/2021				
3/2/2021	<0.005			
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	

	PZ-35	PZ-37	YGWC-24SA	YGWC-36A	PZ-37D	PZ-52D	PZ-51
6/8/2016			<0.005				
8/1/2016			<0.005				
9/2/2016				<0.005			
9/20/2016			<0.005				
11/8/2016			<0.005				
11/14/2016				0.0035			
1/17/2017			<0.005				
2/28/2017				<0.005			
3/8/2017			<0.005				
5/2/2017			0.0011 (J)				
5/9/2017				<0.005			
7/7/2017			<0.005				
7/13/2017				<0.005			
9/22/2017				<0.005			
9/29/2017				<0.005			
10/6/2017				<0.005			
10/12/2017		0.0019 (J)					
11/21/2017		0.0017 (J)					
1/11/2018		0.001 (J)					
2/20/2018		<0.005					
3/30/2018			<0.005	<0.005			
4/3/2018		<0.005					
6/29/2018		<0.005					
8/6/2018		<0.005					
9/24/2018		<0.005					
3/5/2019			<0.005				
3/6/2019				<0.005			
3/25/2020	0.0012 (J)			0.00074 (J)			
3/26/2020			0.00094 (J)				
9/23/2020			<0.005				
9/24/2020	0.00061 (J)						
9/25/2020		<0.005					
10/7/2020				0.0013 (J)			
2/9/2021		<0.005	0.0011 (J)				
2/10/2021	0.0006 (J)			0.00094 (J)			
3/3/2021			<0.005				
3/4/2021	0.0007 (J)	<0.005		<0.005			
8/25/2021		<0.005					
9/1/2021	<0.005		<0.005				
9/3/2021				<0.005	<0.005		
2/10/2022	<0.005	<0.005	<0.005				<0.005
2/11/2022				<0.005	<0.005	0.0011 (J)	

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.005	0.00061 (J)	
6/7/2016						<0.005			<0.005
7/27/2016						<0.005	<0.005	0.0004 (J)	<0.005
7/28/2016									
9/16/2016						<0.005		0.0008 (J)	
9/19/2016							<0.005		<0.005
11/2/2016									<0.005
11/3/2016						<0.005	<0.005	<0.005	
1/11/2017						<0.005	<0.005	<0.005	
1/13/2017									<0.005
3/1/2017							<0.005	<0.005	
3/2/2017						<0.005			
3/6/2017									<0.005
4/26/2017							<0.005	<0.005	<0.005
5/2/2017						<0.005			
6/28/2017							<0.005	<0.005	
6/29/2017						<0.005			<0.005
3/28/2018						<0.005	<0.005	<0.005	
3/29/2018									<0.005
6/5/2018									
6/6/2018									<0.005
6/7/2018							<0.005		
6/11/2018						<0.005		<0.005	
9/25/2018						<0.005	<0.005	<0.005	<0.005
10/16/2018	0.032								
3/5/2019						<0.005		<0.005	<0.005
3/6/2019							<0.005		
4/2/2019						<0.005			
4/3/2019							<0.005	<0.005	<0.005
9/24/2019									
9/25/2019						<0.005			<0.005
9/26/2019	0.015						<0.005	<0.005	
1/3/2020	<0.005								
2/11/2020						<0.005	<0.005	<0.005	
2/12/2020									<0.005
3/24/2020						<0.005	<0.005	<0.005	<0.005
3/25/2020	<0.005								
9/23/2020		0.0025 (J)		0.00052 (J)		<0.005	<0.005	<0.005	
9/24/2020	0.01				0.00077 (J)				<0.005
2/9/2021	0.03	0.001 (J)		0.00063 (J)	<0.005		<0.005	<0.005	<0.005
3/3/2021	0.018	0.00082 (J)		0.001 (J)		<0.005	<0.005	<0.005	<0.005
3/4/2021					<0.005				
8/25/2021				0.00041 (J)					
8/26/2021					<0.005			<0.005	
8/27/2021						<0.005	<0.005		<0.005
9/1/2021	0.022	0.00093 (J)							
2/9/2022						<0.005	<0.005	<0.005	<0.005
2/10/2022	0.011	0.00052 (J)	0.16	0.00044 (J)	<0.005				

Constituent: Cobalt (mg/L) Analysis Run 4/19/2022 5:14 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	0.0056
7/27/2016	
7/28/2016	0.0032 (J)
9/16/2016	
9/19/2016	0.0047 (J)
11/2/2016	
11/3/2016	0.013
1/11/2017	
1/13/2017	0.011
3/1/2017	
3/2/2017	
3/6/2017	0.011
4/26/2017	0.009 (J)
5/2/2017	
6/28/2017	
6/29/2017	0.0093 (J)
3/28/2018	
3/29/2018	<0.005
6/5/2018	0.0041 (J)
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	0.0044 (J)
10/16/2018	
3/5/2019	0.0039 (J)
3/6/2019	
4/2/2019	0.0039 (J)
4/3/2019	
9/24/2019	0.0032 (J)
9/25/2019	
9/26/2019	
1/3/2020	
2/11/2020	
2/12/2020	0.0081
3/24/2020	0.0061
3/25/2020	
9/23/2020	
9/24/2020	0.0079
2/9/2021	0.009
3/3/2021	
3/4/2021	0.0065
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	0.0068
2/9/2022	0.0078

2/10/2022

	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			0.00082 (J)	<0.005	<0.005	<0.005			
7/26/2016			0.0012 (J)	<0.005	<0.005	10.000			
7/28/2016			0.0012 (3)	<b>~0.003</b>	<b>~</b> 0.003	<0.005			
8/30/2016						<b>~</b> 0.003			0.0025 (J)
8/31/2016									0.0025 (3)
			0.0006 (1)	<0.00E	<0.00E				
9/14/2016			0.0006 (J)	<0.005	<0.005	10.005			
9/20/2016			-0.005	-0.005		<0.005			
11/2/2016			<0.005	<0.005	<0.00E				
11/4/2016					<0.005	10.005			
11/8/2016						<0.005			0.000 (1)
11/16/2016				<0.00E	<0.00E				0.002 (J)
1/12/2017			0.0000 (1)	<0.005	<0.005				
1/13/2017			0.0029 (J)			10.005			
1/16/2017						<0.005			
2/24/2017									0.0021 / I)
2/27/2017			0.0000 (1)						0.0021 (J)
3/6/2017			0.0006 (J)	.0.005	.0.005				
3/7/2017				<0.005	<0.005	-0.005			
3/9/2017				.0.005		<0.005			
5/1/2017			<0.005	<0.005	.0.005	.0.005			
5/2/2017					<0.005	<0.005			0.0004 (1)
5/10/2017				.0.005	.0.005				0.0021 (J)
6/27/2017			0.0005 (1)	<0.005	<0.005				
6/29/2017			0.0005 (J)			<0.00E			
7/10/2017 7/11/2017						<0.005			0.0014 (J)
10/11/2017	<0.005								0.0014 (3)
10/11/2017	<b>~0.003</b>	<0.005					<0.005	0.0011 (J)	0.0017 (J)
11/20/2017	<0.005	<0.005					<0.005	0.0011(0)	0.0017 (0)
11/21/2017	10.000	-0.000					10.000	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						

			Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
		YGWC-43			
6	6/2/2016				
	6/7/2016				
	7/26/2016				
	7/28/2016				
	3/30/2016				
	3/31/2016	<0.005			
	9/14/2016	5.555			
	9/20/2016				
	11/2/2016				
	11/4/2016				
	11/8/2016				
	1/16/2016	<0.005			
	1/12/2017				
	1/13/2017				
	1/16/2017				
	2/24/2017	<0.005			
	2/27/2017				
	3/6/2017				
3	3/7/2017				
	3/9/2017				
	5/1/2017				
	5/2/2017				
į	5/10/2017	<0.005			
6	6/27/2017				
6	6/29/2017				
7	7/10/2017				
7	7/11/2017	<0.005			
	10/11/2017				
	10/12/2017	0.0006 (J)			
	1/20/2017				
•	1/21/2017				
•	1/10/2018				
•	/11/2018				
	//12/2018				
	2/19/2018				
	2/20/2018				
	3/29/2018				
	3/30/2018				
	1/3/2018				
	1/4/2018	<0.005			
	6/6/2018				
	6/7/2018				
	5/12/2018				
	8/27/2018				
	6/28/2018 8/7/2018				
	9/20/2018	0.0034 (1)			
	9/24/2018	0.0034 (J)			
	9/24/2018				
	9/27/2018				
	3/4/2019				
	3/6/2019				
•	012010				

	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	

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			0.0067						
9/11/2007			<0.005						
3/20/2008			<0.005						
8/27/2008			<0.005						
3/3/2009			<0.005						
11/18/2009			<0.005						
3/3/2010			0.0027						
9/8/2010			0.007						
3/10/2011			<0.005						
9/8/2011			<0.005						
3/5/2012			0.0032						
9/10/2012			<0.005						
2/6/2013			<0.005						
8/12/2013			0.0045						
2/5/2014			<0.005						
8/5/2014			0.0027						
2/4/2015			0.0016						
8/3/2015			0.002						
2/16/2016			0.0027						
6/1/2016					<0.005	0.00082 (J)			
6/2/2016				<0.005				0.035	<0.005
7/25/2016						0.0008 (J)		0.0312	
7/26/2016				<0.005	<0.005				<0.005
8/30/2016		0.0073 (J)							
8/31/2016			0.0053 (J)						
9/1/2016	<0.005								
9/13/2016					<0.005	0.0009 (J)			
9/14/2016							<0.005		
9/15/2016				<0.005					<0.005
9/19/2016								0.0275	
11/1/2016					<0.005			0.0255	<0.005
11/2/2016				<0.005					
11/4/2016						0.0025 (J)	<0.005		
11/14/2016		0.0115							
11/15/2016	0.0006 (J)								
11/28/2016			0.0036 (J)						
12/15/2016							<0.005		
1/10/2017				<0.005					
1/11/2017					<0.005				<0.005
1/16/2017						0.0027 (J)	<0.005	0.0245	
2/21/2017								0.0272	
2/22/2017			0.0049 (J)						
2/24/2017		0.0106							
2/27/2017	0.0008 (J)								
3/1/2017	. ,								
3/2/2017					<0.005	0.0022 (J)			<0.005
3/3/2017						. ,	<0.005		
3/8/2017				<0.005					
4/26/2017				<0.005				0.0244	<0.005
4/27/2017					<0.005	0.0018 (J)			
4/28/2017							<0.005		
5/8/2017		0.0099 (J)	0.0059 (J)						
		• •							

	YGWC-49	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	7	0.0036 (J)							
10/11/2017	7 0.0006 (J)								
10/16/2017	7		0.0034 (J)						
2/19/2018			<0.005						
3/27/2018				<0.005		<0.005		0.023	
3/28/2018							<0.005		<0.005
3/29/2018					<0.005				
4/2/2018		<0.005							
4/4/2018	<0.005								
6/5/2018					<0.005				
6/6/2018						<0.005			
6/7/2018							<0.005		<0.005
6/8/2018				<0.005					
6/11/2018								0.023	
8/6/2018			0.003 (J)						
9/19/2018		0.0036 (J)							
9/20/2018	<0.005								
10/1/2018				<0.005	<0.005	0.00059 (J)	<0.005		<0.005
10/2/2018								0.022	
2/25/2019			0.001 (J)						
2/26/2019				<0.005				0.021	
2/27/2019					<0.005	0.00064 (J)	<0.005		<0.005
3/28/2019					<0.005	0.00091 (J)			
3/29/2019				<0.005			<0.005		
4/1/2019								0.022	<0.005
6/12/2019			0.003 (J)						
8/19/2019		0.00000 (1)	0.0035 (J)						
8/20/2019		0.00092 (J)			.0.005	0.0040 ( 1)	.0.005		
9/24/2019				10.005	<0.005	0.0013 (J)	<0.005	0.010	-0.005
9/25/2019	-0.005			<0.005				0.016	<0.005
9/26/2019	<0.005	0.0014 (1)	0.0020 ( 1)						
10/8/2019		0.0014 (J)	0.0039 (J)		-0.005	0.0010 (1)			
2/10/2020					<0.005	0.0016 (J)	<0.00E		
2/11/2020				<0.005			<0.005	0.014	<0.005
2/12/2020		0.0017 (1)	0.003 (1)	<0.005				0.014	<0.005
3/17/2020		0.0017 (J)	0.003 (J)	<0.005		0.00087 (J)			
3/18/2020				<0.005	<0.005	0.00087 (3)	<0.00E	0.014	<0.005
3/19/2020	<0.00E				<0.005		<0.005	0.014	<0.005
3/25/2020	<0.005		0.2 (0)						
8/26/2020		0.001171	0.2 (O)						
8/27/2020		0.0011 (J)	0.16 (0)						
9/22/2020		0.00097 (J)	0.16 (O)		<0.00E	0.0013 (J)	<0.00E		<0.005
9/23/2020	<0.00E				<0.005	0.0013 (J)	<0.005	0.0064	<0.005
9/24/2020	<0.005							0.0064	

0/05/0000	YGWC-49	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)	

		Plant Yates	Client: Southern Company	Data: Plant Yates AMA-Rb
	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	-0.555			
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				
5,5,2017				

		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			
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	-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				
2/10/2020	<0.005			
2/12/2020	-0.000			
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	

	PZ-35	PZ-37	YGWC-24SA	YGWC-36A	PZ-37D	PZ-52D	PZ-51
6/8/2016	. = 30	3,	<0.005		. = 3.5	025	•
8/1/2016			<0.005				
9/2/2016			0.000	0.0006 (J)			
9/20/2016			<0.005	0.0000 (3)			
11/8/2016			<0.005				
11/14/2016			<b>~0.003</b>	<0.005			
1/17/2017			<0.005	10.003			
2/28/2017			<b>~0.003</b>	<0.005			
3/8/2017			<0.005	<0.005			
5/2/2017			<0.005				
5/9/2017			<0.005	<0.005			
			<0.005	<0.005			
7/7/2017 7/13/2017			<0.005	<0.005			
9/22/2017				<0.005 <0.005			
9/29/2017							
10/6/2017		0.0070 / 1		<0.005			
10/12/2017		0.0078 (J)					
11/21/2017		0.0097 (J)					
1/11/2018		0.0131					
2/20/2018		0.0162					
3/30/2018			<0.005	<0.005			
4/3/2018		0.015					
6/12/2018			<0.005				
6/13/2018				<0.005			
6/29/2018		0.013					
8/6/2018		0.0053 (J)					
9/24/2018		0.0071 (J)					
9/26/2018			<0.005	<0.005			
10/16/2018	<0.005						
3/5/2019			<0.005				
3/6/2019				<0.005			
4/4/2019			<0.005	<0.005			
9/26/2019	<0.005		<0.005	0.00048 (J)			
3/25/2020	0.0059			0.00038 (J)			
3/26/2020			<0.005				
9/23/2020			<0.005				
9/24/2020	<0.005						
9/25/2020		0.0023 (J)					
10/7/2020				0.00086 (J)			
2/9/2021		0.0023 (J)	<0.005				
2/10/2021	<0.005			0.00038 (J)			
3/3/2021			<0.005				
3/4/2021	<0.005	0.003 (J)		<0.005			
8/25/2021		0.0068					
9/1/2021	<0.005		<0.005				
9/3/2021				<0.005	<0.005		
2/10/2022	<0.005	0.0036 (J)	<0.005				0.033
2/11/2022				<0.005	<0.005	0.0011 (J)	

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						(-,			(-,
9/16/2016						1.04		0.915 (U)	
9/19/2016							1.58	(5)	0.826 (U)
11/2/2016									0.791 (U)
11/3/2016						0.314 (U)	0.342 (U)	0.928 (U)	
1/11/2017						0.34 (U)	0.365 (U)	0.502 (U)	
1/13/2017						0.04 (0)	0.000 (0)	0.002 (0)	0.296 (U)
3/1/2017							0.395 (U)	0.202 (U)	0.200 (0)
3/2/2017						0.746 (U)	0.000 (0)	0.202 (0)	
3/6/2017						0.740 (0)			0.518 (U)
4/26/2017							0.507 (U)	0.264 (U)	0.282 (U)
5/2/2017						0.111 (U)	0.007 (0)	0.204 (0)	0.202 (0)
6/28/2017						0.111 (0)	0.892	0.636 (U)	
6/29/2017						0.576 (U)	0.032	0.030 (0)	1.12
3/28/2018						0.438 (U)	0.92 (U)	0.56 (U)	1.12
3/29/2018						0.438 (0)	0.92 (0)	0.30 (0)	1.73
6/5/2018									1.75
6/6/2018									0.694 (U)
6/7/2018							0.669 (11)		0.094 (0)
						0.001 (11)	0.668 (U)	0.640 (11)	
6/11/2018						0.901 (U)	0.141 (11)	0.649 (U)	0.772 (11)
9/25/2018	0.284 (11)					0.68 (U)	0.141 (U)	0.574 (U)	0.772 (U)
10/16/2018	0.384 (U)					0.272 (11)		0.474 (11)	0.94 (11)
3/5/2019						0.272 (U)	0.714 (11)	0.474 (U)	0.84 (U)
3/6/2019						0.047 (11)	0.714 (U)		
4/2/2019						0.847 (U)	0.205 (11)	0.400 (11)	1.01
4/3/2019							0.385 (U)	0.429 (U)	1.01
9/24/2019						0.440 (11)			1.10.415
9/25/2019						0.412 (U)	0.000 (11)	0.000 (1.1)	1.18 (U)
9/26/2019						0.404.(1)	0.386 (U)	0.222 (U)	
2/11/2020						0.461 (U)	1.48	0.597 (U)	4.44.00
2/12/2020						0.524 (11)	0.000 (11)	0.000 (11)	1.11 (U)
3/24/2020	0.505.410					0.534 (U)	0.632 (U)	0.262 (U)	1.88
3/25/2020	0.525 (U)								
9/23/2020	0.547.410	0.0813 (U)		1.2 (U)	0.000 (1)	0.466 (U)	0.887 (U)	0.43 (U)	0.044 (1))
9/24/2020	0.547 (U)	0.400.410		0.050 (1)	0.668 (U)	0.500 (11)	0.014.410	0.050 (1.1)	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)	0.0 (1)	0.704 (1.1)	0.686 (U)	0.770 (1)
8/27/2021	0.070.41	0.704.415				0.9 (U)	0.761 (U)		0.779 (U)
9/1/2021	0.676 (U)	0.761 (U)				0.400.410	0.574.4.0	0.0040.##	0.504.(1)
2/9/2022	0.222 (1.1)	0.41)	0.000 (11)	0.700 (11)	105 (1)	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)				

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/19/2022 5:15 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	0.347
7/27/2016	
7/28/2016	0.815 (U)
9/16/2016	
9/19/2016	0.862 (U)
11/2/2016	
11/3/2016	0.797 (U)
1/11/2017	
1/13/2017	0.72 (U)
3/1/2017	
3/2/2017	
3/6/2017	0.518 (U)
4/26/2017	1.13 (U)
5/2/2017	
6/28/2017	
6/29/2017	0.841 (U)
3/28/2018	
3/29/2018	1.91
6/5/2018	1.39
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	1.62
10/16/2018	
3/5/2019	0.985 (U)
3/6/2019	
4/2/2019	1.42
4/3/2019	
9/24/2019	1.35
9/25/2019	
9/26/2019	
2/11/2020	
2/12/2020	1.61
3/24/2020	1.24 (U)
3/25/2020	
9/23/2020	
9/24/2020	1.8
2/9/2021	1.24
3/3/2021	1.2
3/4/2021	
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	1.86
2/9/2022	1.94

2/10/2022

	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			1.00	0.00	4.47	0.303 (U)			
7/26/2016			1.26	6.92	1.47	0.000 (11)			
7/28/2016						0.386 (U)			0.00
8/30/2016									2.99
8/31/2016			0.004 (11)	0.00	1.07				
9/14/2016			0.901 (U)	3.96	1.27	4.47			
9/20/2016			1.00 (1))	4.50		1.47			
11/2/2016			1.09 (U)	4.53	0.424 (11)				
11/4/2016					0.434 (U)	0.22 (11)			
11/8/2016						0.22 (U)			4.01
11/16/2016 1/12/2017				4.43	0.202 (U)				4.01
			1.10	4.43	0.202 (0)				
1/13/2017			1.19			0.147 (11)			
1/16/2017						0.147 (U)			
2/24/2017 2/27/2017									2.5
3/6/2017			0.669 (U)						2.3
3/7/2017			0.009 (0)	4.0	0.0674 (U)				
3/9/2017				4.8	0.0674 (0)	0.0892 (U)			
5/1/2017			0.803 (U)	4.16		0.0032 (0)			
5/2/2017			0.803 (0)	4.10	0.444 (U)	0.149 (U)			
5/10/2017					0.444 (0)	0.149 (0)			2.55
6/27/2017				2.8	0.77 (U)				2.00
6/29/2017			1.35	2.0	0.77 (0)				
7/10/2017			1.55			0.815 (U)			
7/10/2017						0.813 (0)			3.94
10/11/2017	0.586 (U)								0.04
10/11/2017	0.300 (0)	1.49					1.24	0.641 (U)	3.57
11/20/2017	0.816 (U)	0.918 (U)					0.342 (U)	0.041 (0)	5.57
11/21/2017	0.010 (0)	0.510 (0)					0.542 (0)	2.01	
1/10/2018		1.05						2.01	
1/11/2018	0.841 (U)							0.919 (U)	
1/12/2018	0.011 (0)						1.04	0.010(0)	
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)			

	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						

		Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
	YGWC-43			
6/2/2016				
6/7/2016				
7/26/2016				
7/28/2016				
8/30/2016				
8/31/2016	0.926 (U)			
9/14/2016	, ,			
9/20/2016				
11/2/2016				
11/4/2016				
11/8/2016				
11/16/2016	0.773 (U)			
1/12/2017	• •			
1/13/2017				
1/16/2017				
2/24/2017	0.661 (U)			
2/27/2017				
3/6/2017				
3/7/2017				
3/9/2017				
5/1/2017				
5/2/2017				
5/10/2017	1.27			
6/27/2017				
6/29/2017				
7/10/2017				
7/11/2017	1.02			
10/11/2017				
10/12/2017	1.58			
11/20/2017				
11/21/2017				
1/10/2018				
1/11/2018				
1/12/2018				
2/19/2018				
2/20/2018				
3/29/2018				
3/30/2018				
4/3/2018				
4/4/2018	1.71			
6/6/2018				
6/7/2018				
6/12/2018				
6/27/2018				
6/28/2018				
8/7/2018				
9/20/2018	2.8			
9/24/2018				
9/26/2018				
9/27/2018				
3/4/2019				
3/6/2019				

YGWC-43
3.16
3.65
3.04
4.75
6.38
6.02
1.54
3.11

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)	0.321 (0)	0.42		0.0652 (U)	2.51
7/25/2016						1.83		3.01	
7/26/2016				1.51	0.707 (U)				3.82
8/30/2016		1.09							
8/31/2016			1.2						
9/1/2016	1.2								
9/13/2016					1.22	0.841			
9/14/2016							0.98 (U)		
9/15/2016				1.04 (U)					4.24
9/19/2016								0.871 (U)	
11/1/2016					0.805 (U)			0.307 (U)	3.92
11/2/2016				0.496 (U)					
11/4/2016						0.166 (U)	0.277 (U)		
11/15/2016	0.645 (U)								
11/28/2016			0.264 (U)						
12/15/2016		1 (U)					0.071 (U)		
1/10/2017				0.376 (U)					
1/11/2017					0.705 (U)				2.52
1/16/2017					, ,	0	0.44 (U)	0.284 (U)	
2/21/2017								0.503 (U)	
2/22/2017			1.06 (U)					, ,	
2/24/2017		0.504 (U)	, ,						
2/27/2017	0.244 (U)	(-,							
3/1/2017	. ,								
3/2/2017					0.251 (U)	0.504 (U)			3.13
3/3/2017					0.201 (0)	0.001 (0)	0.448 (U)		0.10
3/8/2017				0.0745 (U)			(2)		
4/26/2017				0.282 (U)				0.204 (U)	2.35
4/27/2017				0.202 (0)	1.08	0.593 (U)		0.20 (0)	2.00
4/28/2017					1.00	0.000 (0)	0.548 (U)		
5/8/2017		0.455 (U)	0.187 (U)				0.0.0		
5/9/2017	0.519 (U)	0.100 (0)	0.107 (0)						
5/26/2017	0.010 (0)						0 (U)		
6/27/2017					1.02 (U)	0.657 (U)	0 (0)		
6/28/2017					1.02 (0)	0.007 (0)	0.608 (U)		2.6
6/30/2017				0.994			0.000 (0)	0.738 (U)	2.0
7/11/2017		0.471 (U)		0.004				0.700 (0)	
7/13/2017	0.5 (U)	0.171 (0)							
7/17/2017	0.0 (0)		1.42						
10/10/2017		0.649 (U)	1.42						
10/11/2017	1.41	0.049 (0)							
10/11/2017	1.41		1.17						
2/19/2018			1.17 1.58 (D)						
3/27/2018			1.56 (D)	0.189 (U)		0.39 (U)		0.31 (U)	
3/28/2018				0.169 (0)		0.59 (0)	0.412 (U)	0.51 (0)	3
3/29/2018					0.503 (U)		0.412 (0)		3
		0.510.(1)			0.503 (0)				
4/2/2018 4/4/2018	0.442 (11)	0.512 (U)							
	0.442 (U)				0.771 (11)				
6/5/2018					0.771 (U)	2.8			
6/6/2018						2.8	0.73 (11)		2 70
6/7/2018							0.73 (U)		2.79

6/8/2018	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg) 0.218 (U)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
				0.218 (0)				0.608 (U)	
6/11/2018			0.400 (11)					0.608 (0)	
8/6/2018			0.196 (U)						
9/19/2018		0.789 (U)							
9/20/2018	1.14 (U)								
10/1/2018				1.24	0.783 (U)	1.06 (U)	0.756 (U)		3.14
10/2/2018								0.97 (U)	
2/26/2019				0.202 (U)				0.524 (U)	
2/27/2019					1.21 (U)	0.637 (U)	0.635 (U)		3.79
3/28/2019					1.13 (U)	0.125 (U)			
3/29/2019				0 (U)			0.224 (U)		
4/1/2019								1.02 (U)	4.33
8/19/2019			1.39						
8/20/2019		2.44							
9/24/2019					1.22 (U)	0.949 (U)	0.429 (U)		
9/25/2019				0.707 (U)				1.02 (U)	4.2
9/26/2019	1.16 (U)								
10/8/2019	, ,	1.72	1.32 (U)						
2/10/2020			,		1.41	1.25 (U)			
2/11/2020						(=)	0.817 (U)		3.87
2/12/2020				1.07 (U)			(2)	0.301 (U)	
3/17/2020		1.22 (U)	1 (U)	1.07 (0)				0.001 (0)	
3/18/2020		1.22 (0)	1 (0)	0.207 (U)		0.458 (U)			
3/19/2020				0.207 (0)	1.1	0.436 (0)	0.715 (U)	1	3.96
	10/11				1.1		0.713 (0)	'	3.90
3/25/2020	1.2 (U)		4.75						
8/26/2020		1.00 (1.1)	1.75						
8/27/2020		1.26 (U)							
9/22/2020		1.06 (U)	0.688 (U)						
9/23/2020					1.35 (U)	0.00884 (U)	0.565 (U)		4.14
9/24/2020	1.57 (U)							0.684 (U)	
9/25/2020				0.603 (U)					
2/9/2021	0.137 (U)								
2/10/2021				0.353 (U)			1.04 (U)		3.65
2/11/2021								0.678 (U)	
2/12/2021					0.366 (U)	0.458 (U)			
3/1/2021		1.2						0.412 (U)	
3/2/2021			0.948 (U)	0.71 (U)					
3/3/2021					0.492 (U)	0.105 (U)	0.459 (U)		3.58
3/4/2021	0.579 (U)								
8/19/2021		1.07 (U)		0.786 (U)	1.17 (U)	0.0732 (U)		0.234 (U)	3.53
8/20/2021			0.528 (U)						
8/27/2021							0.409 (U)		
9/1/2021	0.686 (U)								
2/8/2022	0.201 (U)	0.4 (U)	0.462 (U)						
2/9/2022	• •				1.19	0.422 (U)	0.894 (U)		3.28
2/10/2022				0 (U)			•	0.268 (U)	

		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	0.070 (1)				
4/26/2017	0.672 (U)				
4/27/2017 4/28/2017					
5/8/2017					
5/9/2017					
5/26/2017					
6/27/2017					
6/28/2017	1.07 (U)				
6/30/2017	, ,				
7/11/2017					
7/13/2017					
7/17/2017					
10/10/2017					
10/11/2017					
10/16/2017					
2/19/2018					
3/27/2018					
3/28/2018	0.65 (U)				
3/29/2018					
4/2/2018					
4/4/2018					
6/5/2018					
6/6/2018					
6/7/2018					

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/19/2022 5:15 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/8/2018	1.89
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	1.58
10/2/2018	
2/26/2019	
2/27/2019	3.67
3/28/2019	
3/29/2019	
4/1/2019	2.28
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	1.6
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	1.85
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	2.2
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	1.14 (U)
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	2.46
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	2.03
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	1.34
9/1/2021	
2/8/2022	
2/9/2022	1.91
0/40/0000	

2/10/2022

					,		
	PZ-35	PZ-37	YGWC-24SA	YGWC-36A	PZ-37D	PZ-52D	PZ-51
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			0.409 (U)	0.721 (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			0.981	0.604 (U)			
10/16/2018	0.363 (U)		0.001	0.00 . (0)			
3/5/2019	0.000 (0)		0.837 (U)				
3/6/2019			0.007 (0)	0.919 (U)			
4/4/2019				1.05 (U)			
4/9/2019			0.502 (U)	1.00 (0)			
9/26/2019			0.964 (U)	0.979 (U)			
3/25/2020	0.197 (U)		0.304 (0)	1.22 (U)			
3/26/2020	0.137 (0)		0.511 (U)	1.22 (0)			
9/23/2020			0.786 (U)				
9/24/2020	1.07 (U)		0.700 (0)				
9/25/2020	1.07 (0)	1.68 (U)					
10/7/2020		1.00 (0)		1.58			
2/9/2021		1.52	0.678 (U)	1.50			
2/10/2021	0.546 (U)	1.52	0.078 (0)	0.466 (U)			
3/3/2021	0.540 (0)		0.415 (U)	0.400 (0)			
3/4/2021	0.397 (U)	1.49	0.413 (0)	0.0671 (U)			
8/25/2021	0.337 (0)	1.49		0.0071 (0)			
9/1/2021	0.696 (U)	1.41	0.444 (U)				
9/1/2021	0.090 (U)		0. <del>444</del> (U)	0 633 (1)	2 10		
				0.622 (U)	3.18	0.721 (11)	
11/4/2021	1.25 / 11	0.91 (11)	0.846 (11)			0.721 (U)	0.064 (11)
2/10/2022	1.25 (U)	0.81 (U)	0.846 (U)	0.205 (11)	0.015 (11)	1.52	0.964 (U)
2/11/2022				0.395 (U)	0.815 (U)	1.52	

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.1	<0.1	
6/7/2016						<0.1			<0.1
7/27/2016						<0.1	<0.1	<0.1	<0.1
7/28/2016									
9/16/2016						<0.1		<0.1	
9/19/2016							<0.1		<0.1
11/2/2016									<0.1
11/3/2016						<0.1	<0.1	<0.1	
1/11/2017						<0.1	<0.1	<0.1	
1/13/2017									<0.1
3/1/2017							<0.1	<0.1	
3/2/2017						<0.1			
3/6/2017									<0.1
4/26/2017							<0.1	<0.1	<0.1
5/2/2017						<0.1			
6/28/2017							<0.1	<0.1	
6/29/2017						<0.1			<0.1
10/3/2017									
10/4/2017						<0.1		<0.1	<0.1
10/5/2017						-0.1	<0.1	-0.1	-0.1
3/28/2018						<0.1	<0.1	<0.1	
3/29/2018						-0.1	-0.1	-0.1	<0.1
6/5/2018									-0.1
6/6/2018									<0.1
6/7/2018							<0.1		-0.1
6/11/2018						<0.1	<b>~0.1</b>	<0.1	
9/25/2018						<0.1	<0.1	<0.1	<0.1
10/16/2018	<0.1					<b>~</b> 0.1	<b>~</b> 0.1	<b>~0.1</b>	<b>~0.1</b>
3/5/2019	<0.1					<0.1		<0.1	<0.1
3/6/2019						<b>~</b> 0.1	<0.1	<b>~0.1</b>	<b>~0.1</b>
4/2/2019						<0.1	<0.1		
4/3/2019						<0.1	<0.1	<0.1	<0.1
9/24/2019							<0.1	<0.1	<0.1
						-0.1			~0.1
9/25/2019	-0.1					<0.1	-0.1	-0.1	<0.1
9/26/2019	<0.1					-0.1	<0.1	<0.1	
2/11/2020						<0.1	<0.1	<0.1	~0.1
2/12/2020 3/24/2020						<0.1	<0.1	<0.1	<0.1 <0.1
3/25/2020	-0.1					<0.1	<0.1	<0.1	<0.1
	<0.1	-0.4		-0.1		-0.1	-0.4	-0.4	
9/23/2020	.0.4	<0.1		<0.1	.0.4	<0.1	<0.1	<0.1	
9/24/2020	<0.1	-0.4		0.14	<0.1		-0.4	-0.4	<0.1
2/9/2021	<0.1	<0.1		0.14	<0.1	-0.1	<0.1	<0.1	<0.1
3/3/2021	<0.1	<0.1		0.14	-0.4	<0.1	<0.1	<0.1	<0.1
3/4/2021				-0.1	<0.1				
8/25/2021				<0.1	-0.1			-0.1	
8/26/2021					<0.1	-0.1	-0.1	<0.1	-0.1
8/27/2021	.0.4	.0.4				<0.1	<0.1		<0.1
9/1/2021	<0.1	<0.1				-0.4	-0.1	-0.1	-0.1
2/9/2022	.0.4	.0.4		.0.4	.0.4	<0.1	<0.1	<0.1	<0.1
2/10/2022	<0.1	<0.1	<0.1	<0.1	<0.1				

	YGWA-21I (bg)
6/6/2016	
6/7/2016	<0.1
7/27/2016	
7/28/2016	0.02 (J)
9/16/2016	
9/19/2016	0.02 (J)
11/2/2016	
11/3/2016	<0.1
1/11/2017	
1/13/2017	<0.1
3/1/2017	
3/2/2017	
3/6/2017	<0.1
4/26/2017	0.04 (J)
5/2/2017	
6/28/2017	
6/29/2017	<0.1
10/3/2017	<0.1
10/4/2017	
10/5/2017	
3/28/2018	
3/29/2018	<0.1
6/5/2018	0.13 (J)
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	0 (J)
10/16/2018	
3/5/2019	0.32
3/6/2019	
4/2/2019	0.12 (J)
4/3/2019	
9/24/2019	0.15 (J)
9/25/2019	
9/26/2019	
2/11/2020	
2/12/2020	0.1 (J)
3/24/2020	0.081 (J)
3/25/2020	
9/23/2020	
9/24/2020	0.079 (J)
2/9/2021	0.092 (J)
3/3/2021	
3/4/2021	0.091 (J)
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	0.11
2/9/2022	0.1
2/10/2022	

	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	.0.4		<0.1						
10/11/2017	<0.1	-0.1				<0.1	-0.1	-0.1	-0.4
10/12/2017	-0.4	<0.1					<0.1	<0.1	<0.1
11/20/2017	<0.1	<0.1					0.2 (J)	-0.1	
11/21/2017 1/10/2018		<0.1						<0.1	
1/11/2018	<0.1	<b>~0.1</b>						<0.1	
1/12/2018	-0.1						0.21 (J)	10.1	
2/19/2018		<0.1					0.21 (0)	<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			

3/4/2019	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg) <0.1	YGWA-5D (bg) 0.19 (J)	YGWA-5I (bg) <0.1	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/6/2019			<0.1	0.19 (3)	<0.1	<0.1			
3/26/2019		<0.1				-0.1			
3/27/2019	<0.1	-0.1					0.24 (J)		<0.1
3/28/2019							0.2 (0)	0.1 (J)	•
4/3/2019			<0.1	0.047 (J)	<0.1			(-)	
4/4/2019				(-)		0.049 (J)			
8/21/2019	<0.1	<0.1				. ,			
8/22/2019							<0.1	<0.1	<0.1
9/24/2019				0.05 (J)	<0.1				
9/25/2019			<0.1						
9/27/2019						0.12 (J)			
10/9/2019	<0.1	<0.1					<0.1	<0.1	<0.1
2/12/2020	<0.1	<0.1	<0.1	<0.1	<0.1				
3/24/2020		<0.1		<0.1	<0.1				
3/25/2020	<0.1		<0.1				<0.1	<0.1	<0.1
3/26/2020						<0.1			
9/22/2020			<0.1	0.056 (J)	<0.1				
9/24/2020	<0.1	<0.1				<0.1			<0.1
9/25/2020							<0.1	<0.1	
2/8/2021				0.055 (J)	<0.1				
2/9/2021			<0.1			<0.1	<0.1		
2/10/2021	<0.1	<0.1						<0.1	<0.1
3/2/2021				<0.1	<0.1				
3/3/2021			<0.1						
3/4/2021	<0.1	<0.1				<0.1	<0.1	<0.1	<0.1
8/25/2021						<0.1			<0.1
8/26/2021	0.063 (J)		<0.1	0.061 (J)	<0.1		<0.1	<0.1	
9/3/2021		<0.1							
9/27/2021									
2/8/2022	0.052 (J)	<0.1						<0.1	
2/10/2022				0.055 (J)	<0.1	<0.1	<0.1		<0.1
2/11/2022			<0.1						

Constituent: Fluoride (mg/L) Analysis Run 4/19/2022 5:15 PM

		Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
	YGWC-43			
6/2/2016				
6/7/2016				
7/26/2016				
7/28/2016				
8/30/2016				
8/31/2016	0.12 (J)			
9/14/2016	.,			
9/20/2016				
11/2/2016				
11/4/2016				
11/8/2016				
11/16/2016	0.2 (J)			
1/12/2017				
1/13/2017				
1/16/2017				
2/24/2017	0.21 (J)			
2/27/2017				
3/6/2017				
3/7/2017				
3/9/2017				
5/1/2017				
5/2/2017				
5/10/2017	0.04 (J)			
6/27/2017				
6/29/2017				
7/10/2017				
7/11/2017	0.2 (J)			
10/3/2017				
10/5/2017				
10/11/2017				
10/12/2017	0.1 (J)			
11/20/2017				
11/21/2017				
1/10/2018				
1/11/2018				
1/12/2018				
2/19/2018				
2/20/2018 3/29/2018				
3/30/2018 4/3/2018				
4/4/2018	<0.1			
6/6/2018				
6/7/2018				
6/12/2018				
6/27/2018				
6/28/2018				
8/7/2018				
9/20/2018	<0.1			
9/24/2018				
9/26/2018				
9/27/2018				

Constituent: Fluoride (mg/L) Analysis Run 4/19/2022 5:15 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
3/4/2019	
3/6/2019	
3/26/2019	
3/27/2019	
3/28/2019	0.078 (J)
4/3/2019	
4/4/2019	
8/21/2019	0.062 (J)
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	<0.1
2/12/2020	
3/24/2020	
3/25/2020	0.073 (J)
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	<0.1
2/8/2021	
2/9/2021	0.058 (J)
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	0.063 (J)
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	0.1
2/8/2022	0.066 (J)
2/10/2022	

2/11/2022

	YGWC-49	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			0.00
6/2/2016				<0.1				<0.1	0.62
7/25/2016				0.00 (1)	0.00 (1)	0.06 (J)		0.06 (J)	0.40
7/26/2016				0.02 (J)	0.08 (J)				0.49
8/30/2016		0.09 (J)							
8/31/2016			0.14 (J)						
9/1/2016	0.09 (J)								
9/13/2016					0.11 (J)	<0.1			
9/14/2016							0.08 (J)		0.54
9/15/2016				<0.1					0.54
9/19/2016								<0.1	0.00
11/1/2016					<0.1			<0.1	0.68
11/2/2016				<0.1					
11/4/2016						<0.1	<0.1		
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	0.05 (1)				0.40
1/11/2017					0.05 (J)	.0.4	0.170	.0.4	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					<0.1	<0.1			0.48
3/3/2017							<0.1		
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						.0.4	0.09 (J)		
6/27/2017 6/28/2017					<0.1	<0.1	0.44 (1)		0.47
6/30/2017				<0.1			0.11 (J)	<0.1	0.47
7/11/2017		0.07 (J)		<b>~0.1</b>				<b>~0.1</b>	
	<0.1	0.07 (3)							
7/13/2017	<0.1		0.1471)						
7/17/2017			0.14 (J)		-0.1	-0.1	-0.1		
10/3/2017					<0.1	<0.1	<0.1	-0.1	z0.1
10/4/2017 10/5/2017				<0.1				<0.1	<0.1
10/5/2017		<0.1		<0.1					
	0.14 (1)	<b>~</b> 0.1							
10/11/2017 10/16/2017	0.14 (J)		0.12 (J)						
			0.12 (J) 0.17						
2/19/2018 3/27/2018			0.17	<0.1		<0.1		<0.1	
				~U. I		~U. I	0.31	~U. I	0.56
3/28/2018					-0.1		0.31		0.56
3/29/2018 4/2/2018		<0.1			<0.1				
7/2/2010		~U. I							

		YGWC-49	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	<0.1	<0.1	<0.1		0.44
	10/2/2018				0	· · ·		· · ·	<0.1	
	2/25/2019			0.14 (J)					-0.1	
	2/26/2019			0.14 (3)	<0.1				<0.1	
	2/27/2019				<b>~0.1</b>	0.052 (1)	<0.1	0.12 ( 1)	<b>~0.1</b>	0.53
			0.081 (1)			0.052 (J)	<0.1	0.12 (J)		0.55
	3/27/2019	-0.1	0.081 (J)			0.000 (1)	-0.4			
	3/28/2019	<0.1				0.036 (J)	<0.1	0.40 ( 1)		
	3/29/2019				<0.1			0.13 (J)		0.45
	4/1/2019								<0.1	0.45
	6/12/2019			0.12 (J)						
	3/19/2019			<0.1						
	3/20/2019		<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)						
:	3/27/2020		<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			0.070 (0)	0	0.078 (J)	<0.1	0.085 (J)		0.44
	3/4/2021	<0.1				0.070 (0)		0.000 (0)		
	3/19/2021	-0.1	<0.1		<0.1	0.074 (J)	<0.1		<0.1	0.47
	B/20/2021		-U. I	0.06 (J)	-0.1	J.074 (J)	-0.1		-0.1	V.77
	3/20/2021 3/27/2021			0.00 (3)				0.12		
		<0.1						0.12		
	9/1/2021	<0.1	-0.1	0.064 (1)						
	2/8/2022	<0.1	<0.1	0.064 (J)		0.057 (1)	-0.1	0.004 (1)		0.42
	2/9/2022					0.057 (J)	<0.1	0.094 (J)		0.43

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# **Time Series**

	YGWC-49	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		

		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	-0.1			
3/1/2017 3/2/2017	<0.1			
3/3/2017				
3/8/2017				
4/26/2017	0.08 (J)			
4/27/2017	0.00 (0)			
4/28/2017				
5/8/2017				
5/9/2017				
5/26/2017				
6/27/2017				
6/28/2017	0.12 (J)			
6/30/2017				
7/11/2017				
7/13/2017				
7/17/2017				
10/3/2017				
10/4/2017	<0.1			
10/5/2017				
10/10/2017				
10/11/2017				
10/16/2017				
2/19/2018				
3/27/2018				
3/28/2018	<0.1			
3/29/2018				
4/2/2018				

		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 (0)			
8/6/2018				
9/19/2018				
9/20/2018	-0.1			
10/1/2018	<0.1			
10/2/2018				
2/25/2019				
2/26/2019	0.12 (1)			
2/27/2019	0.13 (J)			
3/27/2019				
3/28/2019				
3/29/2019	0.170			
4/1/2019	0.1 (J)			
6/12/2019				
8/19/2019				
8/20/2019				
9/24/2019	0.170			
9/25/2019	0.1 (J)			
9/26/2019				
10/8/2019				
2/10/2020	2.24 (1)			
2/11/2020	0.094 (J)			
2/12/2020				
3/17/2020				
3/18/2020	2.4440			
3/19/2020	0.11 (J)			
3/25/2020				
8/26/2020				
8/27/2020				
9/22/2020	0.000 (1)			
9/23/2020	0.098 (J)			
9/24/2020				
9/25/2020				
2/9/2021	.0.1			
2/10/2021	<0.1			
2/11/2021				
2/12/2021				
3/1/2021				
3/2/2021	0.1			
3/3/2021	0.1			
3/4/2021				
8/19/2021				
8/20/2021	0.12			
8/27/2021	0.12			
9/1/2021				
2/8/2022 2/9/2022	0.007 (1)			
21312022	0.097 (J)			

Constituent: Fluoride (mg/L) Analysis Run 4/19/2022 5:15 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWA-3I (bg)

2/10/2022 2/11/2022

	PZ-35	PZ-37	YGWC-24SA	YGWC-36A	PZ-37D	PZ-52D	PZ-51	
6/8/2016			<0.1					
8/1/2016			<0.1					
9/2/2016				0.05 (J)				
9/20/2016			<0.1					
11/8/2016			<0.1					
11/14/2016				0.18 (J)				
1/17/2017			<0.1					
2/28/2017				0.09 (J)				
3/8/2017			<0.1					
5/2/2017			<0.1					
5/9/2017				0.009 (J)				
7/7/2017			<0.1					
7/13/2017				<0.1				
9/22/2017				0.09 (J)				
9/29/2017				<0.1				
10/5/2017			<0.1					
10/6/2017				<0.1				
10/11/2017				<0.1				
10/12/2017		<0.1						
11/21/2017		0.26 (J)						
1/11/2018		<0.1						
2/20/2018		0.45						
3/30/2018			<0.1	<0.1				
4/3/2018		0.31						
6/12/2018			<0.1					
6/13/2018				<0.1				
6/29/2018		<0.1						
8/6/2018		0.23 (J)						
9/24/2018		<0.1						
9/26/2018			<0.1	<0.1				
10/16/2018	<0.1							
3/5/2019			<0.1					
3/6/2019				<0.1				
4/4/2019			0.033 (J)	0.043 (J)				
9/26/2019	<0.1		0.098 (J)	0.094 (J)				
3/25/2020	<0.1		.,	<0.1				
3/26/2020			<0.1					
9/23/2020			<0.1					
9/24/2020	<0.1							
9/25/2020		<0.1						
10/7/2020		-		<0.1				
2/9/2021		<0.1	<0.1	-				
2/10/2021	<0.1		-	<0.1				
3/3/2021			<0.1					
3/4/2021	<0.1	<0.1	2	<0.1				
8/25/2021		<0.1		· · ·				
9/1/2021	<0.1	· · ·	<0.1					
9/3/2021	-0.1		-0.1	<0.1	0.15			
2/10/2022	<0.1	<0.1	<0.1	-0.1	0.10		0.1	
2/11/2022	-0.1	-0.1	-0.1	<0.1	0.17	0.1	•••	
2111/2022				~0.1	0.17	U. I		

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.001	<0.001	
6/7/2016						<0.001			<0.001
7/27/2016						<0.001	<0.001	<0.001	<0.001
7/28/2016									
9/16/2016						<0.001		<0.001	
9/19/2016							<0.001		<0.001
11/2/2016									0.0013 (J)
11/3/2016						<0.001	<0.001	<0.001	
1/11/2017						<0.001	<0.001	<0.001	
1/13/2017									<0.001
3/1/2017							<0.001	<0.001	
3/2/2017						8E-05 (J)			
3/6/2017									<0.001
4/26/2017							<0.001	<0.001	<0.001
5/2/2017						<0.001			
6/28/2017							<0.001	0.0001 (J)	
6/29/2017						8E-05 (J)			<0.001
3/28/2018						<0.001	<0.001	<0.001	
3/29/2018									<0.001
3/5/2019						<0.001		<0.001	<0.001
3/6/2019							<0.001		
4/2/2019						<0.001			
4/3/2019							<0.001	<0.001	<0.001
9/24/2019									
9/25/2019						<0.001			<0.001
9/26/2019	<0.001						<0.001	<0.001	
2/11/2020						<0.001	<0.001	<0.001	
2/12/2020									<0.001
3/24/2020						6.4E-05 (J)	7.1E-05 (J)	5.4E-05 (J)	0.00011 (J)
3/25/2020	<0.001								
9/23/2020		<0.001		0.00028 (J)		4.1E-05 (J)	6E-05 (J)	9.7E-05 (J)	
9/24/2020	<0.001				0.00011 (J)				9.2E-05 (J)
2/9/2021	0.00019 (J)	0.00011 (J)		0.00054 (J)	7.3E-05 (J)		5E-05 (J)	9.4E-05 (J)	6.3E-05 (J)
3/3/2021	<0.001	8E-05 (J)		9.6E-05 (J)		<0.001	<0.001	7.6E-05 (J)	4.5E-05 (J)
3/4/2021					4.1E-05 (J)				
8/25/2021				<0.001					
8/26/2021					<0.001			<0.001	
8/27/2021						<0.001	<0.001		<0.001
9/1/2021	<0.001	<0.001							
2/9/2022						<0.001	<0.001	<0.001	<0.001
2/10/2022	<0.001	<0.001	<0.001	<0.001	<0.001				

Constituent: Lead (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	<0.001
7/27/2016	
7/28/2016	<0.001
9/16/2016	
9/19/2016	<0.001
11/2/2016	
11/3/2016	<0.001
1/11/2017	
1/13/2017	<0.001
3/1/2017	
3/2/2017	
3/6/2017	<0.001
4/26/2017	<0.001
5/2/2017	
6/28/2017	
6/29/2017	<0.001
3/28/2018	
3/29/2018	<0.001
3/5/2019	<0.001
3/6/2019	
4/2/2019	<0.001
4/3/2019	
9/24/2019	<0.001
9/25/2019	
9/26/2019	
2/11/2020	
2/12/2020	<0.001
3/24/2020	<0.001
3/25/2020	
9/23/2020	
9/24/2020	4.6E-05 (J)
2/9/2021	<0.001
3/3/2021	
3/4/2021	<0.001
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	<0.001
2/9/2022	<0.001

2/10/2022

		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			<0.001	<0.001	<0.001				
6/	7/2016						0.00044 (J)			
	26/2016			<0.001	<0.001	<0.001				
7/2	28/2016						<0.001			
8/3	30/2016									<0.001
8/3	31/2016									
9/	14/2016			<0.001	<0.001	<0.001				
9/2	20/2016						<0.001			
11	/2/2016			<0.001	<0.001					
11	/4/2016					<0.001				
11	/8/2016						<0.001			
11	/16/2016									0.0002 (J)
1/	12/2017				<0.001	<0.001				
1/	13/2017			<0.001						
1/	16/2017						<0.001			
2/2	24/2017									
2/2	27/2017									<0.001
3/0	6/2017			<0.001						
3/	7/2017				0.0001 (J)	7E-05 (J)				
	9/2017				, ,	. ,	<0.001			
	1/2017			<0.001	<0.001					
	2/2017					<0.001	<0.001			
	10/2017									9E-05 (J)
	27/2017				<0.001	<0.001				(-)
	29/2017			<0.001						
	10/2017			0.001			<0.001			
	11/2017						-0.001			<0.001
	)/11/2017	0.0001 (J)								0.001
	)/12/2017	0.0001 (3)	9E-05 (J)					0.0001 (J)	<0.001	<0.001
	/20/2017	<0.001	<0.001					0.0001 (J)	<b>~0.001</b>	<b>10.001</b>
	/21/2017	<b>~0.001</b>	<b>~0.001</b>					0.0001 (3)	<0.001	
	10/2018		<0.001						<b>~0.001</b>	
	11/2018	0.000271	<b>~</b> 0.001						7E-05 (J)	
		0.0002 (J)						0.0001 (1)	7E-05 (3)	
	12/2018 19/2018		<0.001					0.0001 (J)	<0.001	
		<0.001	<0.001					-0.001	<0.001	
	20/2018	<0.001		<0.001	-0.001	-0.001		<0.001		
	29/2018			<0.001	<0.001	<0.001	-0.001			
	30/2018	-0.001	10.001				<0.001	-0.001	-0.001	
	3/2018	<0.001	<0.001					<0.001	<0.001	0.004
	4/2018									<0.001
	27/2018								0.0011 (J)	
	28/2018	<0.001	<0.001					<0.001		
	7/2018	<0.001	<0.001					<0.001	<0.001	
	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				
	4/2019						<0.001			
	21/2019	<0.001	<0.001							
	22/2019							<0.001	6.7E-05 (J)	<0.001
9/2	24/2019				<0.001	9E-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
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						

Constituent: Lead (mg/L) Analysis Run 4/19/2022 5:15 PM

		Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
	YGWC-43			
6/2/2016				
6/7/2016				
7/26/2016				
7/28/2016				
8/30/2016				
8/31/2016	<0.001			
9/14/2016	30.001			
9/20/2016				
11/2/2016				
11/4/2016				
11/8/2016	10.001			
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				
	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			
	V0.001			
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				
3/6/2019 4/3/2019				
4/3/2019 4/4/2019				
8/21/2019 8/21/2019	<0.001			
8/22/2019	5.551			
9/24/2019				

	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	

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			<0.001						
9/11/2007			<0.001						
3/20/2008			<0.001						
8/27/2008			<0.001						
3/3/2009			<0.001						
11/18/2009			<0.001						
3/3/2010			<0.001						
9/8/2010			<0.001						
3/10/2011			<0.001						
9/8/2011			<0.001						
3/5/2012			<0.001						
9/10/2012			<0.001						
2/6/2013			<0.001						
8/12/2013			<0.001						
2/5/2014			<0.001						
8/5/2014			<0.001						
2/4/2015			<0.001						
8/3/2015			<0.001						
2/16/2016			<0.001						
6/1/2016					0.00056 (J)	<0.001			
6/2/2016				<0.001	(-,			<0.001	0.00056 (J)
7/25/2016						<0.001		<0.001	(-)
7/26/2016				<0.001	<0.001				0.0001 (J)
8/30/2016		<0.001		0.001	0.001				0.000 (0)
8/31/2016		0.001	<0.001						
9/1/2016	<0.001		0.001						
9/13/2016	-0.001				0.0001 (J)	<0.001			
9/14/2016					0.000 . (0)	0.001	<0.001		
9/15/2016				<0.001			0.001		0.0002 (J)
9/19/2016				0.001				<0.001	0.0002 (0)
11/1/2016					<0.001			<0.001	<0.001
11/2/2016				<0.001	0.001			0.00	0.001
11/4/2016				0.001		<0.001	<0.001		
11/14/2016		<0.001				10.001	-0.001		
11/15/2016	<0.001	-0.001							
11/28/2016	-0.001		<0.001						
12/15/2016			10.001				<0.001		
1/10/2017				<0.001			-0.001		
1/11/2017				0.001	<0.001				<0.001
1/16/2017					0.001	<0.001	<0.001	<0.001	0.001
2/21/2017						0.001	0.001	<0.001	
2/22/2017			<0.001					-0.001	
2/24/2017		<0.001	10.001						
2/27/2017	<0.001	-0.001							
3/1/2017	-0.001								
3/2/2017					0.0001 (J)	<0.001			0.0002 (J)
3/3/2017					0.000 . (0)	0.001	<0.001		0.0002 (0)
3/8/2017				0.0001 (J)			5.501		
4/26/2017				<0.001				<0.001	<0.001
4/27/2017				-0.001	<0.001	<0.001		-0.001	5.501
4/28/2017					-0.001	-0.001	<0.001		
5/8/2017		<0.001	<0.001				-0.001		
0.012017		-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	
3/28/2018							<0.001		<0.001
3/29/2018					<0.001				
4/2/2018		<0.001							
4/4/2018	<0.001								
8/6/2018			<0.001						
9/19/2018		<0.001							
9/20/2018	<0.001								
2/25/2019			<0.001						
2/26/2019				<0.001				<0.001	
2/27/2019				0.001	<0.001	<0.001	<0.001	0.001	<0.001
6/12/2019			<0.001		-0.001	-0.001	-0.001		-0.001
8/19/2019			<0.001						
8/20/2019		<0.001	-0.001						
9/26/2019	<0.001	<b>\0.001</b>							
10/8/2019	40.001		<0.001						
2/10/2020			<b>~0.001</b>		4.9E-05 (J)	<0.001			
					4.9E-05 (3)	<0.001	<0.001		
2/11/2020 2/12/2020				<0.001			<0.001	<0.001	<0.001
			<0.001	<0.001				<0.001	<b>~0.001</b>
3/17/2020			<0.001	<0.001		<0.001			
3/18/2020				<0.001	0.00010 (1)	<0.001	-0.001	-0.004	0.00047 (1)
3/19/2020	5.05.05.(I)				0.00012 (J)		<0.001	<0.001	0.00017 (J)
3/25/2020	5.9E-05 (J)		-0.004						
8/26/2020		-0.001	<0.001						
8/27/2020		<0.001	0.0001 (1)						
9/22/2020		<0.001	0.0001 (J)		-0.001	0.00001 (1)	0.0011 (1)		10.001
9/23/2020					<0.001	0.00021 (J)	0.0011 (J)	.0.004	<0.001
9/24/2020	<0.001							<0.001	
9/25/2020				<0.001					
2/9/2021	<0.001								
2/10/2021				4.8E-05 (J)			0.00015 (J)		<0.001
2/11/2021								4.6E-05 (J)	
2/12/2021					4.4E-05 (J)	0.00038 (J)			
3/1/2021		<0.001						<0.001	
3/2/2021			<0.001	<0.001					
3/3/2021					5.6E-05 (J)	<0.001	<0.001		<0.001
3/4/2021	<0.001								
8/19/2021		<0.001		<0.001	<0.001	<0.001		<0.001	<0.001
8/20/2021			<0.001						
8/27/2021							<0.001		

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
	1000-49	TGVVA-47 (bg)	GWA-2 (bg)	1GVVA-143 (bg)	TGVVA-TD (bg)	TGVVA-TI (Dg)	1GWA-21 (bg)	r GWA-301 (bg)	r GVVA-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	

		Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
	YGWA-3I (bg)			
5/1/2007				
9/11/2007				
3/20/2008				
8/27/2008				
3/3/2009				
11/18/2009				
3/3/2010				
9/8/2010				
3/10/2011				
9/8/2011				
3/5/2012				
9/10/2012				
2/6/2013				
8/12/2013				
2/5/2014				
8/5/2014				
2/4/2015				
8/3/2015				
2/16/2016				
6/1/2016	<0.001			
6/2/2016				
7/25/2016	<0.001			
7/26/2016				
8/30/2016				
8/31/2016				
9/1/2016				
9/13/2016				
9/14/2016	<0.001			
9/15/2016				
9/19/2016				
11/1/2016	<0.001			
11/2/2016				
11/4/2016				
11/14/2016				
11/15/2016				
11/28/2016				
12/15/2016 1/10/2017				
1/11/2017	<0.001			
1/16/2017	V0.001			
2/21/2017				
2/22/2017				
2/24/2017				
2/27/2017				
3/1/2017	<0.001			
3/2/2017				
3/3/2017				
3/8/2017				
4/26/2017	<0.001			
4/27/2017				
4/28/2017				
5/8/2017				

		Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
	YGWA-3I (bg)			
5/9/2017				
5/26/2017				
6/27/2017				
6/28/2017	<0.001			
6/30/2017				
7/11/2017				
7/13/2017				
7/17/2017				
10/10/2017				
10/11/2017				
10/16/2017				
2/19/2018				
3/27/2018				
3/28/2018	<0.001			
3/29/2018				
4/2/2018				
4/4/2018				
8/6/2018				
9/19/2018				
9/20/2018				
2/25/2019				
2/26/2019				
2/27/2019	<0.001			
6/12/2019				
8/19/2019				
8/20/2019				
9/26/2019				
10/8/2019				
2/10/2020				
2/11/2020	<0.001			
2/12/2020				
3/17/2020				
3/18/2020				
3/19/2020	<0.001			
3/25/2020				
8/26/2020				
8/27/2020				
9/22/2020				
9/23/2020	0.00015 (J)			
9/24/2020				
9/25/2020				
2/9/2021				
2/10/2021	<0.001			
2/11/2021				
2/12/2021				
3/1/2021				
3/2/2021				
3/3/2021	<0.001			
3/4/2021				
8/19/2021				
8/20/2021				
8/27/2021	<0.001			

Constituent: Lead (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWA-3I (bg)
9/1/2021
2/8/2022
2/9/2022
2/10/2022

2/11/2022

	PZ-35	PZ-37	YGWC-24SA	YGWC-36A	PZ-37D	PZ-52D	PZ-51
6/8/2016			<0.001				
8/1/2016			<0.001				
9/2/2016				0.0017 (J)			
9/20/2016			<0.001				
11/8/2016			<0.001				
11/14/2016				0.0002 (J)			
1/17/2017			<0.001				
2/28/2017				0.0003 (J)			
3/8/2017			<0.001				
5/2/2017			<0.001				
5/9/2017				0.0004 (J)			
7/7/2017			<0.001				
7/13/2017				0.0004 (J)			
9/22/2017				0.0003 (J)			
9/29/2017				0.0002 (J)			
10/6/2017				0.0002 (J)			
10/12/2017		0.0002 (J)					
11/21/2017		0.0002 (J)					
1/11/2018		0.0001 (J)					
2/20/2018		<0.001					
3/30/2018			<0.001	<0.001			
4/3/2018		<0.001					
6/29/2018		<0.001					
8/6/2018		<0.001					
9/24/2018		<0.001					
3/5/2019			<0.001				
3/6/2019				<0.001			
4/4/2019			<0.001	0.00037 (J)			
9/26/2019	<0.001		<0.001	0.00023 (J)			
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	

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							0.0088	0.015	
6/7/2016						<0.03			<0.03
7/27/2016						<0.03	0.0087 (J)	0.0049 (J)	<0.03
7/28/2016									
9/16/2016						<0.03		0.0031 (J)	
9/19/2016							0.0043 (J)		<0.03
11/2/2016									<0.03
11/3/2016						<0.03	<0.03	0.0021 (J)	
1/11/2017						0.0035 (J)	0.0052 (J)	0.0025 (J)	
1/13/2017									<0.03
3/1/2017							0.0053 (J)	0.0029 (J)	
3/2/2017						<0.03			
3/6/2017									<0.03
4/26/2017							0.0041 (J)	0.0019 (J)	<0.03
5/2/2017						<0.03			
6/28/2017							0.0039 (J)	0.0016 (J)	
6/29/2017						<0.03			<0.03
3/28/2018						<0.03	0.0041 (J)	0.0024 (J)	
3/29/2018									<0.03
6/5/2018									
6/6/2018									<0.03
6/7/2018							0.0032 (J)		
6/11/2018						<0.03	, ,	0.0014 (J)	
9/25/2018						<0.03	0.0036 (J)	0.0016 (J)	<0.03
10/16/2018	0.0052 (J)						( )	( )	
3/5/2019	( )					<0.03		0.0031 (J)	<0.03
3/6/2019							0.0033 (J)	(-)	
4/2/2019						<0.03	. ,		
4/3/2019							0.0035 (J)	0.0028 (J)	<0.03
9/24/2019							(5)		
9/25/2019						<0.03			<0.03
9/26/2019	<0.03					0.00	0.0032 (J)	0.0029 (J)	0.00
2/11/2020	-0.00					<0.03	0.0032 (J)	0.0025 (U)	
2/12/2020						10.05	0.0000 (0)	0.005 (5)	<0.03
3/24/2020						0.0034 (J)	0.0033 (J)	0.0035 (J)	<0.03
3/25/2020	0.0011 (J)					0.0034 (3)	0.0033 (3)	0.0033 (3)	<b>10.03</b>
	0.0011 (3)	-0.03		0.02 (1)		<b>-0.0</b> 2	0.002 (1)	0.0022 (1)	
9/23/2020	0.011 (1)	<0.03		0.03 (J)	0.012 / 1)	<0.03	0.003 (J)	0.0022 (J)	-0.03
9/24/2020	0.011 (J)	<0.03		0.018 ( 1)	0.013 (J)		0.0031 (J)	0.0019 (J)	<0.03
2/9/2021	0.021 (J)			0.018 (J)	0.016 (J)	10.00			<0.03
3/3/2021	0.022 (J)	<0.03		0.02 (J)	0.040 ( 1)	<0.03	0.0034 (J)	0.0021 (J)	<0.03
3/4/2021				0.000	0.016 (J)				
8/25/2021				0.033	0.045 (1)			0.0040 ( "	
8/26/2021					0.015 (J)	10.00	0.0000 / "	0.0019 (J)	10.00
8/27/2021	0.010 (1)	-0.00				<0.03	0.0032 (J)		<0.03
9/1/2021	0.013 (J)	<0.03	0.040						
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)				

Constituent: Lithium (mg/L) Analysis Run 4/19/2022 5:15 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	0.0055
7/27/2016	
7/28/2016	0.0045 (J)
9/16/2016	
9/19/2016	0.0054 (J)
11/2/2016	
11/3/2016	<0.03
1/11/2017	
1/13/2017	0.0062 (J)
3/1/2017	
3/2/2017	
3/6/2017	0.0059 (J)
4/26/2017	0.0054 (J)
5/2/2017	
6/28/2017	
6/29/2017	0.0047 (J)
3/28/2018	
3/29/2018	0.0062 (J)
6/5/2018	0.0061 (J)
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	0.0062 (J)
10/16/2018	
3/5/2019	0.0053 (J)
3/6/2019	
4/2/2019	0.0051 (J)
4/3/2019	
9/24/2019	0.0068 (J)
9/25/2019	
9/26/2019	
2/11/2020	
2/12/2020	0.0065 (J)
3/24/2020	0.0064 (J)
3/25/2020	
9/23/2020	
9/24/2020	0.0069 (J)
2/9/2021	0.006 (J)
3/3/2021	
3/4/2021	0.0062 (J)
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	0.0057 (J)
12/9/2021	
2/9/2022	0.0061 (J)

2/10/2022

0.000010	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)	<0.03	<0.03			
7/26/2016			0.0123 (J)	0.0063 (J)	0.0027 (J)				
7/28/2016			.,	, ,	, ,	0.0019 (J)			
8/30/2016						(-)			0.0257 (J)
8/31/2016									(-)
9/14/2016			0.0137 (J)	0.0058 (J)	0.0029 (J)				
9/20/2016			(-)		(0)	0.0021 (J)			
11/2/2016			0.0136 (J)	0.0053 (J)					
11/4/2016			0.0100 (0)	0.0000 (0)	<0.03				
11/8/2016						0.0024 (J)			
11/16/2016									0.0221 (J)
1/12/2017				0.0054 (J)	0.0032 (J)				0.022 . (0)
1/13/2017			0.0121 (J)		(0)				
1/16/2017						0.0022 (J)			
2/24/2017						(-)			
2/27/2017									0.0208 (J)
3/6/2017			0.0143 (J)						(0)
3/7/2017			(0)	0.0056 (J)	0.0035 (J)				
3/9/2017				0.0000 (0)	0.0000 (0)	0.0025 (J)			
5/1/2017			0.0132 (J)	0.0031 (J)		0.0020 (0)			
5/2/2017			0.0.02 (0)	0.000 (0)	0.0031 (J)	0.0019 (J)			
5/10/2017					0.0001 (0)	0.0010 (0)			0.0316 (J)
6/27/2017				0.0018 (J)	0.0029 (J)				0.0010 (0)
6/29/2017			0.0145 (J)	(5)					
7/10/2017			(0)			0.0018 (J)			
7/11/2017						(,,			0.0281 (J)
10/11/2017	0.0018 (J)								( )
10/12/2017	. ,	<0.03					0.0095 (J)	0.004 (J)	0.0331 (J)
11/20/2017	0.0018 (J)	<0.03					0.0083 (J)		
11/21/2017								0.0043 (J)	
1/10/2018		<0.03							
1/11/2018	0.0019 (J)							0.0044 (J)	
1/12/2018							0.0089 (J)		
2/19/2018		<0.03						<0.03	
2/20/2018	<0.03						0.0082 (J)		
3/29/2018			0.014 (J)	0.0058 (J)	0.0034 (J)				
3/30/2018						0.0039 (J)			
4/3/2018	0.0022 (J)	<0.03					0.0097 (J)	0.0047 (J)	
4/4/2018									0.037 (J)
6/6/2018				0.0068 (J)					
6/7/2018			0.013 (J)		0.0032 (J)				
6/12/2018						0.0017 (J)			
6/27/2018								0.0042 (J)	
6/28/2018	0.0026 (J)	<0.03					0.0093 (J)		
8/7/2018	0.0024 (J)	<0.03					0.0092 (J)	0.0038 (J)	
9/20/2018									0.049 (J)
9/24/2018	0.0022 (J)	<0.03					0.0083 (J)	0.0037 (J)	
9/26/2018			0.014 (J)	0.0065 (J)	0.0032 (J)				
9/27/2018						0.0017 (J)			
3/4/2019			0.015 (J)	0.0065 (J)	0.0032 (J)				
3/6/2019						0.0025 (J)			

4/2/2010	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 4/4/2019			0.014 (J)	0.007 (J)	0.0035 (J)	0.0018 (1)			
	0.0035 (1)	<0.03				0.0018 (J)			
8/21/2019	0.0035 (J)	<0.03					0.0000 (1)	0.0005 (1)	0.047
8/22/2019				0.0005 (1)	0.0004 ( 1)		0.0082 (J)	0.0035 (J)	0.047
9/24/2019			0.01471)	0.0065 (J)	0.0031 (J)				
9/25/2019			0.014 (J)			0.0017 (1)			
9/27/2019	0.0000 (1)	-0.00				0.0017 (J)	0.0004 (1)	0.0000 (1)	0.007
10/9/2019	0.0036 (J)	<0.03	0.044 ( 1)	0.0000 (1)	0.0000 ( 1)		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	0.0040 (1)	<0.03	0.04470	0.0064 (J)	0.0033 (J)		0.0004 (1)	0.0000 (1)	0.045
3/25/2020	0.0049 (J)		0.014 (J)			0.0004 (1)	0.0081 (J)	0.0029 (J)	0.045
3/26/2020			0.040 ( 1)	0.0000 (1)	0.000470	0.0021 (J)			
9/22/2020	0.005470	.0.00	0.013 (J)	0.0066 (J)	0.0034 (J)	0.0005 (1)			0.05
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)						

Constituent: Lithium (mg/L) Analysis Run 4/19/2022 5:15 PM

			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		0.000 (1)				
8/31/201		0.006 (J)				
9/14/201						
9/20/201						
11/2/201						
11/4/201						
11/8/201						
11/16/20		0.0095 (J)				
1/12/201						
1/13/201	17					
1/16/201						
2/24/201	17	0.0104 (J)				
2/27/201	17					
3/6/2017	7					
3/7/2017	7					
3/9/2017	7					
5/1/2017	7					
5/2/2017	7					
5/10/201	17	0.0123 (J)				
6/27/201	17					
6/29/201						
7/10/201	17					
7/11/201		0.0131 (J)				
10/11/20						
10/12/20		0.013 (J)				
11/20/20		. ,				
11/21/20						
1/10/201						
1/11/201						
1/12/201						
2/19/201						
2/20/201						
3/29/201						
3/30/201						
4/3/2018						
4/4/2018		0.016 (J)				
6/6/2018		0.010 (0)				
6/7/2018						
6/12/201						
6/27/201						
6/28/201						
8/7/2018						
		0.010 (1)				
9/20/201 9/24/201		0.019 (J)				
9/26/201						
9/27/201						
3/4/2019						
3/6/2019	a a					

	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	

0/4/0040	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016					0.015	<0.03		.0.00	0.040
6/2/2016				<0.03				<0.03	0.018
7/25/2016						0.002 (J)		<0.03	
7/26/2016				<0.03	0.0135 (J)				0.0221 (J)
8/30/2016		0.0061 (J)							
8/31/2016			<0.03						
9/1/2016	0.0034 (J)								
9/13/2016					0.0112 (J)	<0.03			
9/14/2016							0.004 (J)		
9/15/2016				<0.03					0.0197 (J)
9/19/2016								<0.03	
11/1/2016					0.0163 (J)			<0.03	0.0194 (J)
11/2/2016				<0.03					
11/4/2016						<0.03	<0.03		
11/14/2016		0.0064 (J)							
11/15/2016	0.0044 (J)								
11/28/2016			<0.03						
12/15/2016							0.0026 (J)		
1/10/2017				<0.03					
1/11/2017					0.0166 (J)				0.0177 (J)
1/16/2017						0.0023 (J)	0.0023 (J)	<0.03	
2/21/2017								<0.03	
2/22/2017			<0.03						
2/24/2017		0.0049 (J)							
2/27/2017	0.0036 (J)								
3/1/2017									
3/2/2017					0.0159 (J)	0.0025 (J)			0.0185 (J)
3/3/2017							0.0013 (J)		
3/8/2017				<0.03					
4/26/2017				<0.03				<0.03	0.0183 (J)
4/27/2017					0.0137 (J)	0.0027 (J)			
4/28/2017							0.0031 (J)		
5/8/2017		0.0053 (J)	0.0014 (J)						
5/9/2017	0.0038 (J)								
5/26/2017							0.0038 (J)		
6/27/2017					0.0094 (J)	0.0024 (J)			
6/28/2017							0.0026 (J)		0.0173 (J)
6/30/2017				<0.03				<0.03	
7/11/2017		0.0051 (J)							
7/13/2017	0.0036 (J)								
7/17/2017			<0.03						
10/10/2017		0.0043 (J)							
10/11/2017	0.0036 (J)								
10/16/2017			0.0016 (J)						
2/19/2018			<0.03						
3/27/2018				<0.03		0.0023 (J)		0.0011 (J)	
3/28/2018							0.0025 (J)		0.02 (J)
3/29/2018					0.0078 (J)				
4/2/2018		0.0045 (J)			-				
4/4/2018	0.0039 (J)	•							
6/5/2018	. ,				0.0079 (J)				
6/6/2018					. ,	0.0024 (J)			

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			0.0017 (0)		0.02 (3)
6/11/2018				0.00				0.0012 (J)	
8/6/2018			<0.03					0.0012 (0)	
9/19/2018		0.0043 (J)	10.05						
9/20/2018	0.0036 (J)	0.0043 (3)							
10/1/2018	0.0030 (3)			<0.03	0.0053 (J)	0.0023 (J)	<0.03		0.02 (J)
10/1/2018				<b>~0.03</b>	0.0055 (3)	0.0023 (3)	<b>~0.03</b>	<0.03	0.02 (3)
2/26/2019				-0.00					
				<0.03	0.0002 (1)	0.0022 (1)	0.0011 (1)	0.0011 (J)	0.001 (1)
2/27/2019 3/28/2019					0.0093 (J)	0.0023 (J)	0.0011 (J)		0.021 (J)
					0.013 (J)	0.0022 (J)	0.0010 (1)		
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)		(0)	(0)		(-)	3.525 (4)
8/27/2021			(-)				0.0058 (J)		
9/1/2021	0.0036 (J)						2.0000 (0)		
2/8/2022	0.0036 (J)	0.0039 (J)	0.0031 (J)						
2/9/2022	3.0000 (0)	3.0000 (0)	2.000. (0)		0.013 (J)	0.0027 (J)	0.006 (J)		0.026 (J)
2/10/2022				<0.03	0.010 (0)	0.0027 (0)	3.000 (0)		5.020 (0)
2/10/2022				0.00				0.0014 (J)	
LITILUZZ								0.0017 (0)	

		Р	lant Yates	Client: Southern Company	Data: Plant Yates AMA-R6		
	YGWA-3I (bg)						
6/1/2016	0.01						
6/2/2016							
7/25/2016	0.0132 (J)						
7/26/2016	.,						
8/30/2016							
8/31/2016							
9/1/2016							
9/13/2016							
9/14/2016	0.012 (J)						
9/15/2016	(-)						
9/19/2016							
11/1/2016	0.0115 (J)						
11/2/2016	.,						
11/4/2016							
11/14/2016							
11/15/2016							
11/28/2016							
12/15/2016							
1/10/2017							
1/11/2017	0.0085 (J)						
1/16/2017							
2/21/2017							
2/22/2017							
2/24/2017							
2/27/2017							
3/1/2017	0.0114 (J)						
3/2/2017							
3/3/2017							
3/8/2017							
4/26/2017	0.0092 (J)						
4/27/2017							
4/28/2017							
5/8/2017							
5/9/2017							
5/26/2017							
6/27/2017							
6/28/2017	0.0085 (J)						
6/30/2017							
7/11/2017							
7/13/2017							
7/17/2017							
10/10/2017							
10/11/2017							
10/16/2017							
2/19/2018							
3/27/2018							
3/28/2018	0.013 (J)						
3/29/2018							
4/2/2018							
4/4/2018							
6/5/2018							
6/6/2018							

Constituent: Lithium (mg/L) Analysis Run 4/19/2022 5:15 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/7/2018	
6/8/2018	0.012 (J)
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	0.011 (J)
10/2/2018	
2/26/2019	
2/27/2019	0.014 (J)
3/28/2019	
3/29/2019	
4/1/2019	0.013 (J)
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	0.01 (J)
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	0.013 (J)
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	0.014 (J)
3/25/2020	. ,
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	0.013 (J)
9/24/2020	. ,
9/25/2020	
2/9/2021	
2/10/2021	0.015 (J)
2/11/2021	(1)
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	0.017 (J)
3/4/2021	(0)
8/19/2021	
8/20/2021	
8/27/2021	0.026 (J)
9/1/2021	3.020 (0)
2/8/2022	
2/9/2022	0.021 (J)
2/10/2022	3.021 (0)
LI 1012022	

2/11/2022

	PZ-35	PZ-37	YGWC-24SA	YGWC-36A	PZ-37D	PZ-52D	PZ-51
6/8/2016			<0.03				
8/1/2016			<0.03				
9/2/2016				0.0029 (J)			
9/20/2016			<0.03				
11/8/2016			<0.03				
11/14/2016				0.0044 (J)			
1/17/2017			<0.03				
2/28/2017				0.0038 (J)			
3/8/2017			<0.03				
5/2/2017			<0.03				
5/9/2017				0.0057 (J)			
7/7/2017			<0.03				
7/13/2017				0.007 (J)			
9/22/2017				0.0067 (J)			
9/29/2017				0.0064 (J)			
10/6/2017				0.0065 (J)			
10/12/2017		0.0271 (J)					
11/21/2017		0.0255 (J)					
1/11/2018		0.0271 (J)					
2/20/2018		<0.03					
3/30/2018			<0.03	0.0061 (J)			
4/3/2018		0.027 (J)					
6/12/2018			<0.03				
6/13/2018				0.0065 (J)			
6/29/2018		0.032 (J)					
8/6/2018		0.033 (J)					
9/24/2018		0.028 (J)					
9/26/2018			<0.03	0.0063 (J)			
10/16/2018	0.0011 (J)						
3/5/2019			<0.03				
3/6/2019				0.0057 (J)			
4/4/2019			<0.03	0.0058 (J)			
9/26/2019	<0.03		<0.03	0.0041 (J)			
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	ν-/	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)	<0.03	(-/	\-/		0.006 (J)
2/11/2022	(-/	(-)		0.00093 (J)	0.0087 (J)	0.015 (J)	V)
				0.00000 (0)	0.0007 (0)	0.0.0(0)	

	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				

Constituent: Mercury (mg/L) Analysis Run 4/19/2022 5:15 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	9.6E-05 (J)
7/27/2016	
7/28/2016	<0.0002
9/16/2016	
9/19/2016	<0.0002
11/2/2016	
11/3/2016	<0.0002
1/11/2017	
1/13/2017	<0.0002
3/1/2017	
3/2/2017	
3/6/2017	<0.0002
4/26/2017	<0.0002
5/2/2017	
6/28/2017	
6/29/2017	<0.0002
3/28/2018	
3/29/2018	<0.0002
9/25/2018	<0.0002
3/5/2019	<0.0002
3/6/2019	
2/11/2020	
2/12/2020	<0.0002
9/23/2020	
9/24/2020	
2/9/2021	<0.0002
3/3/2021	
3/4/2021	<0.0002
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	<0.0002
2/9/2022	<0.0002

2/10/2022

	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			<0.0002			
7/11/2017						-0.0002			<0.0002
10/11/2017	<0.0002								-0.0002
10/11/2017	·0.0002	<0.0002					<0.0002	<0.0002	<0.0002
11/20/2017	7E 0E ( I)	8E-05 (J)						<b>~0.0002</b>	<b>~0.0002</b>
11/21/2017	7E-05 (J)	6L-03 (3)					8E-05 (J)	6E-05 (J)	
		<0.0002						0L-03 (3)	
1/10/2018	<0.0000	<0.0002						<0.0002	
1/11/2018	<0.0002						-0.0000	<0.0002	
1/12/2018		<0.0000					<0.0002	<0.0002	
2/19/2018	-0.0000	<0.0002					-0.0000	<0.0002	
2/20/2018	<0.0002						<0.0002		
3/29/2018			<0.0002	<0.0002	<0.0002	-0.0000			
3/30/2018						<0.0002	0.000	.0.000	
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				

2/8/2021	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg) <0.0002	YGWA-5I (bg) <0.0002	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
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						

		Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
	YGWC-43			
6/2/2016				
6/7/2016				
7/26/2016				
7/28/2016				
8/30/2016				
8/31/2016	<0.0002			
9/14/2016				
9/20/2016				
11/2/2016				
11/4/2016				
11/8/2016				
11/16/2016	<0.0002			
1/12/2017				
1/13/2017				
1/16/2017				
2/24/2017	<0.0002			
2/27/2017				
3/6/2017				
3/7/2017				
3/9/2017				
5/1/2017				
5/2/2017				
5/10/2017	<0.0002			
6/27/2017				
6/29/2017				
7/10/2017				
7/11/2017	<0.0002			
10/11/2017				
10/12/2017	<0.0002			
11/20/2017				
11/21/2017				
1/10/2018				
1/11/2018				
1/12/2018				
2/19/2018				
2/20/2018				
3/29/2018				
3/30/2018				
4/3/2018				
4/4/2018	<0.0002			
6/27/2018				
6/28/2018				
8/7/2018				
9/20/2018	5.2E-05 (J)			
9/24/2018				
9/26/2018				
9/27/2018				
3/4/2019				
3/6/2019				
8/21/2019	<0.0002			
8/22/2019				
2/12/2020				

	YGWC-43
2/8/2021	
2/9/2021	<0.0002
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.0002
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	9E-05 (JB)
2/8/2022	<0.0002
2/10/2022	
2/11/2022	

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007		, ,,	<0.0002	, ,	, -,			, ,,	. •
9/11/2007			<0.0002						
3/20/2008			<0.0002						
8/27/2008			<0.0002						
3/3/2009			<0.0002						
11/18/2009			<0.0002						
3/3/2010			<0.0002						
9/8/2010			<0.0002						
3/10/2011			<0.0002						
9/8/2011			<0.0002						
3/5/2012			<0.0002						
9/10/2012			<0.0002						
2/6/2013			<0.0002						
8/12/2013			<0.0002						
2/5/2014			<0.0002						
8/5/2014			<0.0002						
2/4/2015			<0.0002						
8/3/2015			<0.0002						
2/16/2016			1.36E-05 (J)						
6/1/2016					<0.0002	<0.0002			
6/2/2016				<0.0002				<0.0002	<0.0002
7/25/2016						<0.0002		<0.0002	
7/26/2016				<0.0002	<0.0002				<0.0002
8/30/2016		<0.0002							
8/31/2016		0.0002	<0.0002						
9/1/2016	<0.0002		-0.0002						
9/13/2016	·0.0002				<0.0002	<0.0002			
					<b>\0.0002</b>	<0.000 <u>2</u>	<0.0000		
9/14/2016				-0.0000			<0.0002		-0.0000
9/15/2016				<0.0002					<0.0002
9/19/2016								<0.0002	
11/1/2016					<0.0002			<0.0002	<0.0002
11/2/2016				<0.0002					
11/4/2016						<0.0002	<0.0002		
11/14/2016		<0.0002							
11/15/2016	<0.0002								
11/28/2016			<0.0002						
12/15/2016							<0.0002		
1/10/2017				<0.0002					
1/11/2017					<0.0002				<0.0002
1/16/2017						<0.0002	<0.0002	<0.0002	
2/21/2017								<0.0002	
2/22/2017			<0.0002						
2/24/2017		<0.0002							
2/27/2017	<0.0002								
3/1/2017									
3/2/2017					<0.0002	<0.0002			<0.0002
3/3/2017							<0.0002		
3/8/2017				<0.0002			<del></del>		
4/26/2017				<0.0002				<0.0002	<0.0002
4/27/2017				3.0002	<0.0002	<0.0002		3.0002	
4/28/2017					3.0002	5.0002	<0.0002		
5/8/2017		<0.0002	<0.0002				-0.0002		
5,0/2017		-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		<0.0002						
10/10/2017		<0.0002	0.0002						
10/11/2017	<0.0002	-0.0002							
10/16/2017	-0.0002		<0.0002						
2/19/2018			<0.0002						
3/27/2018			<0.000 <u>2</u>	<0.0002		<0.0002		<0.0002	
3/28/2018				<b>\0.0002</b>		<b>\0.0002</b>	<0.0002	<0.000Z	<0.0002
					<0.0002		<b>~0.0002</b>		V0.0002
3/29/2018		<0.0000			<0.0002				
4/2/2018	-0.0000	<0.0002							
4/4/2018	<0.0002								
8/6/2018		5.05.05.(I)	<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	, <u>-</u>	, <u>.</u>			
2/11/2022								<0.0002	
								3.0002	

		Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
	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	<0.0002			
6/2/2016				
7/25/2016	<0.0002			
7/26/2016				
8/30/2016				
8/31/2016				
9/1/2016				
9/13/2016				
9/14/2016	<0.0002			
9/15/2016				
9/19/2016				
11/1/2016	<0.0002			
11/2/2016				
11/4/2016				
11/14/2016				
11/15/2016				
11/28/2016				
12/15/2016				
1/10/2017				
1/11/2017	<0.0002			
1/16/2017				
2/21/2017				
2/22/2017				
2/24/2017				
2/27/2017				
3/1/2017	<0.0002			
3/2/2017				
3/3/2017				
3/8/2017				
4/26/2017	<0.0002			
4/27/2017				
4/28/2017				
5/8/2017				

		Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
	YGWA-3I (bg)			
5/9/2017	1 4777 (39)			
5/26/2017				
6/27/2017				
6/28/2017	<0.0002			
	<0.0002			
6/30/2017				
7/11/2017				
7/13/2017				
7/17/2017				
10/10/2017				
10/11/2017				
10/16/2017				
2/19/2018				
3/27/2018				
3/28/2018	<0.0002			
3/29/2018				
4/2/2018				
4/4/2018				
8/6/2018				
9/19/2018				
9/20/2018				
2/25/2019				
2/26/2019				
2/27/2019	6.1E-05 (J)			
3/28/2019				
3/29/2019				
4/1/2019	8.4E-05 (J)			
6/12/2019				
8/19/2019				
8/20/2019				
9/24/2019				
9/25/2019	<0.0002			
10/8/2019				
2/10/2020				
2/11/2020	<0.0002			
2/12/2020				
5/6/2020				
8/26/2020				
8/27/2020				
9/22/2020				
2/9/2021				
2/10/2021	<0.0002			
2/11/2021				
2/12/2021				
3/2/2021				
3/4/2021				
8/19/2021				
8/20/2021				
9/1/2021				
2/8/2022				
2/9/2022	<0.0002			
2/10/2022				
2/11/2022				

	PZ-35	PZ-37	YGWC-24SA	YGWC-36A	PZ-37D	PZ-52D	PZ-51
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	

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.01	<0.01	
6/7/2016						<0.01			<0.01
7/27/2016						<0.01	<0.01	<0.01	<0.01
7/28/2016									
9/16/2016						<0.01		<0.01	
9/19/2016							<0.01		<0.01
11/2/2016									<0.01
11/3/2016						<0.01	<0.01	<0.01	
1/11/2017						<0.01	<0.01	<0.01	
1/13/2017									<0.01
3/1/2017							<0.01	<0.01	
3/2/2017						<0.01			
3/6/2017									<0.01
4/26/2017							<0.01	<0.01	<0.01
5/2/2017						<0.01			
6/28/2017							<0.01	<0.01	
6/29/2017						<0.01			<0.01
3/28/2018						<0.01	<0.01	<0.01	
3/29/2018									<0.01
3/5/2019						<0.01		<0.01	<0.01
3/6/2019							<0.01		
2/11/2020						<0.01	<0.01	<0.01	
2/12/2020									<0.01
3/24/2020						<0.01	<0.01	<0.01	<0.01
3/25/2020	<0.01								
9/23/2020		<0.01		0.0068 (J)		<0.01	<0.01	<0.01	
9/24/2020	0.0022 (J)				<0.01				<0.01
2/9/2021	0.0038 (J)	<0.01		0.0068 (J)	<0.01		<0.01	<0.01	<0.01
3/3/2021	0.0037 (J)	<0.01		0.0049 (J)		<0.01	<0.01	<0.01	<0.01
3/4/2021					<0.01				
8/25/2021				0.0081 (J)					
8/26/2021					<0.01			<0.01	
8/27/2021						<0.01	<0.01		<0.01
9/1/2021	0.0014 (J)	<0.01							
2/9/2022						<0.01	<0.01	<0.01	<0.01
2/10/2022	0.00089 (J)	<0.01	0.0036 (J)	0.0076 (J)	<0.01				

	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	

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.01	0.0035 (J)	<0.01				
6/7/2016						<0.01			
7/26/2016			<0.01	0.0042 (J)	<0.01				
7/28/2016						<0.01			
8/30/2016									0.0019 (J)
8/31/2016									
9/14/2016			<0.01	0.0041 (J)	<0.01				
9/20/2016						<0.01			
11/2/2016			<0.01	0.0039 (J)					
11/4/2016					<0.01				
11/8/2016						<0.01			0.0007 (1)
11/16/2016				0.0044 (1)	-0.01				0.0027 (J)
1/12/2017			-0.01	0.0041 (J)	<0.01				
1/13/2017			<0.01			-0.01			
1/16/2017						<0.01			
2/24/2017									0.0021 (1)
2/27/2017			-0.01						0.0031 (J)
3/6/2017			<0.01	0.0047 (1)	-0.01				
3/7/2017 3/9/2017				0.0047 (J)	<0.01	<0.01			
5/1/2017			<0.01	0.0045 (J)		<0.01			
5/2/2017			<b>\0.01</b>	0.0045 (3)	<0.01	<0.01			
5/10/2017					<b>\0.01</b>	<0.01			0.0017 (J)
6/27/2017				0.004 (J)	<0.01				0.0017 (3)
6/29/2017			<0.01	0.004 (3)	<b>~0.01</b>				
7/10/2017			<b>~0.01</b>			<0.01			
7/10/2017						<b>~0.01</b>			0.0014 (J)
10/11/2017	0.0094 (J)								0.0014 (0)
10/11/2017	0.0054 (5)	<0.01					<0.01	<0.01	<0.01
11/20/2017	0.0081 (J)	<0.01					<0.01	10.01	VO.01
11/21/2017	0.0001 (0)	40.01					40.01	<0.01	
1/10/2018		<0.01						0.01	
1/11/2018	0.0074 (J)	0.01						<0.01	
1/12/2018	0.007 1 (0)						<0.01	0.01	
2/19/2018		<0.01						<0.01	
2/20/2018	<0.01						<0.01		
3/29/2018			<0.01	<0.01	<0.01				
3/30/2018						<0.01			
4/3/2018	0.006 (J)	<0.01					<0.01	<0.01	
4/4/2018									<0.01
6/27/2018								<0.01	
6/28/2018	0.005 (J)	<0.01					<0.01		
8/7/2018	0.0045 (J)	<0.01					<0.01	<0.01	
9/20/2018									<0.01
9/24/2018	0.0035 (J)	<0.01					<0.01	<0.01	
3/4/2019			<0.01	<0.01	<0.01				
3/6/2019						<0.01			
8/21/2019	0.0021 (J)	<0.01							
8/22/2019							<0.01	<0.01	<0.01
10/9/2019	0.0018 (J)	<0.01					<0.01	<0.01	<0.01
2/12/2020	0.0025 (J)	<0.01	<0.01	0.0011 (J)	<0.01				
3/24/2020		<0.01		0.0011 (J)	<0.01				

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/25/2020	0.002 (J)		<0.01				<0.01	<0.01	<0.01
3/26/2020						<0.01			
9/22/2020			<0.01	0.00099 (J)	<0.01				
9/24/2020	0.0016 (J)	<0.01				<0.01			0.00091 (J)
9/25/2020							<0.01	<0.01	
2/8/2021				0.0011 (J)	<0.01				
2/9/2021			<0.01			<0.01	<0.01		
2/10/2021	0.0013 (J)	<0.01						<0.01	0.00094 (J)
3/2/2021				<0.01	<0.01				
3/3/2021			<0.01						
3/4/2021	0.0014 (J)	<0.01				<0.01	<0.01	<0.01	0.00085 (J)
8/25/2021						<0.01			0.00078 (J)
8/26/2021	0.0027 (J)		<0.01	0.001 (J)	<0.01		<0.01	<0.01	
9/3/2021		<0.01							
9/27/2021									
2/8/2022	0.0035 (J)	<0.01						<0.01	
2/10/2022				0.00096 (J)	<0.01	<0.01	<0.01		0.0008 (J)
2/11/2022			<0.01						

		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				
1/13/2017				
1/16/2017				
2/24/2017	<0.01			
2/27/2017				
3/6/2017				
3/7/2017				
3/9/2017				
5/1/2017				
5/2/2017				
5/10/2017	<0.01			
6/27/2017				
6/29/2017				
7/10/2017				
7/11/2017	<0.01			
10/11/2017				
10/12/2017	<0.01			
11/20/2017				
11/21/2017				
1/10/2018				
1/11/2018				
1/12/2018				
2/19/2018				
2/20/2018				
3/29/2018				
3/30/2018				
4/3/2018				
4/4/2018	<0.01			
6/27/2018				
6/28/2018				
8/7/2018				
9/20/2018	<0.01			
9/24/2018				
3/4/2019				
3/6/2019				
8/21/2019	0.0012 (J)			
8/22/2019				
10/9/2019	0.0012 (J)			
2/12/2020				
3/24/2020				

	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	

Y	GWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
				-0.01	0.014 (0)	0.012 (0)		-0.01	0.0003 (1)
				<0.01					0.0093 (J)
						0.0098 (J)		<0.01	
				<0.01	0.0132				0.0113
		<0.01							
6			<0.01						
<(	0.01								
6					0.0127	0.01 (J)			
6							0.0039 (J)		
6				<0.01					0.0112
6								<0.01	
6					0.0092 (J)			<0.01	0.0099 (J)
6				<0.01					
6						0.01	0.0077 (J)		
		<0.01							
			<0.01						
			0.01				0.0066 (1)		
				<0.01			0.0000 (0)		
				<b>~0.01</b>	0.0003 (1)				0.0093 (J)
					0.0093 (3)	0.0000 (1)	0.0050 (1)	-0.01	0.0093 (3)
						0.0086 (3)	0.0056 (3)		
								<0.01	
			<0.01						
		<0.01							
	.0007 (J)								
					0.0099 (J)	0.01			0.0103
							0.0049 (J)		
				<0.01					
7				<0.01				<0.01	0.01
7					0.0103	0.0101			
7							0.004 (J)		
		<0.01	<0.01						
<(	0.01								
7							0.0029 (J)		
7					0.0097 (J)	0.0093 (J)			
7							0.0036 (J)		0.0102
7				<0.01				<0.01	
7		<0.01							
7 <(	0.01								
			<0.01						
	0.01		<0.01						
			0.01	<0.01		0.0074 (1)		<0.01	
				-0.01		0.0074 (0)	0.0038 ( 1)	-0.01	0.011
					0.0076 ( !)		0.0036 (J)		0.011
		<b>-0.01</b>			0.0076 (J)				
.,		<u.u1< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></u.u1<>							
	U.UT								
					υ.0092 (J)				
						0.0073 (J)			
	66666666666666677777777777777777777777	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	66 66 67 68 68 68 68 68 68 68 68 68 68 68 68 68	66 66 40.01 66 40.01 66 66 66 66 66 66 66 66 66 66 66 67 77 7	<pre></pre>	YGWC-49	YGWC-49	YGWC-49	

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								<0.01	
2/26/2019				<0.01				<0.01	
2/27/2019					0.0087 (J)	0.0078 (J)	0.0041 (J)		0.011
3/28/2019					0.0092 (J)	0.0082 (J)	. ,		
3/29/2019				<0.01	(-)	(-)	0.0041 (J)		
4/1/2019								<0.01	0.012
8/19/2019			<0.01						
8/20/2019		<0.01	0.01						
9/24/2019		-0.01			0.0072 (J)	0.0074 (J)	0.0054 (J)		
9/25/2019				<0.01	0.0072 (3)	0.0074 (0)	0.0034 (0)	<0.01	0.012
10/8/2019		<0.01		40.01				<b>10.01</b>	0.012
		<b>~0.01</b>			0.0097 ( 1)	0.0062 (J)			
2/10/2020 2/11/2020					0.0087 (J)	0.0002 (3)	0.0057 (1)		
				<0.01			0.0057 (J)	-0.01	0.012
2/12/2020		-0.01		<0.01				<0.01	0.013
3/17/2020		<0.01		.0.04		0.0050 (1)			
3/18/2020				<0.01	0.0000 (1)	0.0056 (J)	0.004070		0.010
3/19/2020					0.0088 (J)		0.0046 (J)	<0.01	0.013
3/25/2020	<0.01								
8/26/2020			<0.01						
8/27/2020		<0.01							
9/22/2020		<0.01							
9/23/2020					0.008 (J)	0.0059 (J)	0.0071 (J)		0.012
9/24/2020	<0.01							<0.01	
9/25/2020				<0.01					
2/9/2021	<0.01								
2/10/2021				<0.01			0.0041 (J)		0.014
2/11/2021								<0.01	
2/12/2021					0.008 (J)	0.0056 (J)			
3/1/2021		<0.01						<0.01	
3/2/2021				<0.01					
3/3/2021					0.0088 (J)	0.0049 (J)	0.0074 (J)		0.013
3/4/2021	<0.01								
8/19/2021		<0.01		<0.01	0.0083 (J)	0.005 (J)		<0.01	0.013
8/20/2021			<0.01						
8/27/2021							0.0048 (J)		
9/1/2021	<0.01								
2/8/2022	<0.01	<0.01	<0.01						
2/9/2022					0.0093 (J)	0.0055 (J)	0.0057 (J)		0.013
2/10/2022				<0.01					
2/11/2022								<0.01	

		Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
	YGWA-3I (bg)			
6/1/2016	0.0055 (J)			
6/2/2016				
7/25/2016	0.0037 (J)			
7/26/2016				
8/30/2016				
8/31/2016				
9/1/2016				
9/13/2016				
9/14/2016	0.0034 (J)			
9/15/2016				
9/19/2016				
11/1/2016	0.0025 (J)			
11/2/2016				
11/4/2016				
11/14/2016				
11/15/2016				
11/28/2016				
12/15/2016				
1/10/2017				
1/11/2017	0.0033 (J)			
1/16/2017				
2/21/2017				
2/22/2017				
2/24/2017				
2/27/2017				
3/1/2017	0.0044 (J)			
3/2/2017				
3/3/2017				
3/8/2017				
4/26/2017	0.0075 (J)			
4/27/2017				
4/28/2017 5/8/2017				
5/9/2017				
5/26/2017				
6/27/2017				
6/28/2017	0.008 (J)			
6/30/2017	3.335 (0)			
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				

	YGWA-3I (bg)
6/7/2018	
6/8/2018	0.0041 (J)
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	0.0037 (J)
10/2/2018	
2/26/2019	
2/27/2019	0.0027 (J)
3/28/2019	
3/29/2019	
4/1/2019	0.0021 (J)
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	0.0087 (J)
10/8/2019	
2/10/2020	
2/11/2020	0.003 (J)
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	0.0043 (J)
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	0.01
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	0.0038 (J)
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	0.0036 (J)
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	0.0099 (J)
9/1/2021	
2/8/2022	
2/9/2022	0.0087 (J)
2/10/2022	
2/11/2022	

	PZ-35	PZ-37	YGWC-24SA	YGWC-36A	PZ-37D	PZ-52D	PZ-51
6/8/2016			<0.01				
8/1/2016			<0.01				
9/2/2016				0.0027 (J)			
9/20/2016			<0.01				
11/8/2016			<0.01				
11/14/2016				0.0071 (J)			
1/17/2017			<0.01				
2/28/2017				0.0038 (J)			
3/8/2017			<0.01				
5/2/2017			<0.01				
5/9/2017				0.0025 (J)			
7/7/2017			<0.01				
7/13/2017				0.0014 (J)			
9/22/2017				<0.01			
9/29/2017				<0.01			
10/6/2017				<0.01			
10/12/2017		0.0022 (J)					
11/21/2017		0.0016 (J)					
1/11/2018		0.0015 (J)					
2/20/2018		<0.01					
3/30/2018			<0.01	<0.01			
4/3/2018		<0.01					
6/29/2018		0.0021 (J)					
8/6/2018		<0.01					
9/24/2018		<0.01					
3/5/2019			<0.01				
3/6/2019				<0.01			
3/25/2020	0.0019 (J)			<0.01			
3/26/2020			<0.01				
9/23/2020			<0.01				
9/24/2020	<0.01						
9/25/2020		0.0016 (J)					
10/7/2020				0.0015 (J)			
2/9/2021		0.0016 (J)	<0.01				
2/10/2021	<0.01			<0.01			
3/3/2021			<0.01				
3/4/2021	<0.01	0.0024 (J)		<0.01			
8/25/2021		0.0011 (J)					
9/1/2021	<0.01		<0.01				
9/3/2021				<0.01	0.0018 (J)		
2/10/2022	<0.01	<0.01	<0.01				<0.01
2/11/2022				<0.01	0.0037 (J)	0.011	

		YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
	6/6/2016							6.17	5.71	
	6/7/2016						5.62			5.77
	7/27/2016						5.59	6.14	5.46	5.79
	7/28/2016									
	9/16/2016						5.58			
	9/19/2016							6.04	5.59	5.73
	11/2/2016									5.67
	11/3/2016						5.59	5.97	5.39	
	1/11/2017						5.59	6.05	5.48	
	1/13/2017						3.33	0.00	3.40	5.79
	3/1/2017							5.94	5.41	5.75
	3/2/2017						E E 4	5.94	5.41	
							5.54			E 60
	3/6/2017							5.00	F 4	5.63
	4/26/2017							5.99	5.4	5.66
	5/2/2017						5.47			
	6/28/2017							6	5.36	
	6/29/2017						5.56			5.85
	10/3/2017									
	10/4/2017						5.57		5.32	5.83
	10/5/2017							6.11		
:	3/28/2018						5.59	6.1	5.34	
;	3/29/2018									5.93
(	6/5/2018									
(	6/6/2018									5.86
	6/7/2018							5.98		
	6/11/2018						5.58		5.28	
!	9/25/2018						5.59	5.81	4.86	5.84
:	3/5/2019						5.48		5.26	6.07
;	3/6/2019							5.99		
	4/2/2019						5.74			
	4/3/2019							6.29	5.47	5.71
	9/24/2019									
:	9/25/2019						5.49			5.86
	9/26/2019							6.04	5.2	
	1/3/2020	5.78								
	1/15/2020		6.25			5.64				
	1/16/2020		0.20	6.67	6.47	0.01				
	2/11/2020			6.62	0.47	5.37	5.58	6.07	5.3	
	2/12/2020			0.02		0.07	0.00	0.07	0.0	6
	3/24/2020						5.57	5.98	5.33	5.86
	3/25/2020	6.13					3.37	3.90	3.33	3.00
		0.13	F 00		F 00		F F0 (D)	C 01 (D)	F 00 (D)	
	9/23/2020		5.66		5.89		5.58 (D)	6.01 (D)	5.29 (D)	
	9/24/2020	6	5.04		0.00	5.38		0.10	5.40	5.8 (D)
	2/9/2021	6.42	5.81		6.96	5.34		6.12	5.43	5.86
	3/3/2021	6.54	5.67		6.8		5.52	5.89	5.31	5.89
	3/4/2021					5.32				
	8/25/2021				6.79					
	8/26/2021					5.35			4.4	
	8/27/2021						5.27	5.4		5.57
!	9/1/2021	5.97	6.67							
	9/3/2021			5.74						
:	2/9/2022						5.53	5.98	5.28	5.91

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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)
2/10/2022	5.8	5.64	5.93	6.1	5.22 (D)				

		Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
	YGWA-21I (bg)			
6/6/2016				
6/7/2016	6.1			
7/27/2016				
7/28/2016	6.12			
9/16/2016				
9/19/2016	6.12			
11/2/2016				
11/3/2016	6.07			
1/11/2017				
1/13/2017	6.41			
3/1/2017				
3/2/2017				
3/6/2017	6.34			
4/26/2017	6.32			
5/2/2017				
6/28/2017				
6/29/2017	6.47			
10/3/2017	6.56			
10/4/2017				
10/5/2017				
3/28/2018				
3/29/2018	6.75			
6/5/2018	6.09			
6/6/2018				
6/7/2018				
6/11/2018 9/25/2018	6.67			
3/5/2019	7.22			
3/6/2019	1.22			
4/2/2019	6.94			
4/3/2019	0.04			
9/24/2019	6.87			
9/25/2019				
9/26/2019				
1/3/2020				
1/15/2020				
1/16/2020				
2/11/2020				
2/12/2020	7.13			
3/24/2020	6.35			
3/25/2020				
9/23/2020				
9/24/2020	6.7 (D)			
2/9/2021	6.95			
3/3/2021				
3/4/2021	6.8			
8/25/2021				
8/26/2021				
8/27/2021				
9/1/2021	6.65			
9/3/2021	6.04			
2/9/2022	6.84			

Constituent: pH (S.U.) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWA-21I (bg)

2/10/2022

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
6/2/2016				6.36	7.67	5.75				
6/7/2016							5.57			
7/26/201				6.22	7.66	5.72				
7/28/201							5.6			
8/30/201										5.64
8/31/201	16									
9/14/201	16			6.23	7.6	5.74				
9/20/201	16						5.53			
11/2/201	16			6.08	7.35					
11/4/201	16					5.61				
11/8/201	16						5.53			
11/16/20	)16									6.21
1/12/201	17				7.49	5.71				
1/13/201	17			6.19						
1/16/201	17						5.59			
2/24/201	17									
2/27/201										6.09
3/6/2017				6.2						
3/7/2017					7.43	5.66				
3/9/2017							5.56			
5/1/2017				6.21	7.22		0.00			
5/2/2017				0.21	,.22	5.65	5.61			
5/10/201						5.05	3.01			5.79
6/27/201					7.32	5.7				5.79
				6.01	7.32	5.7				
6/29/201				6.21			F 00			
7/10/201							5.68			5.45
7/11/201										5.45
10/3/201					7.48	5.79				
10/5/201				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	
1/10/201			4.97							
1/11/201	8	6.29							4.73	
1/12/201	8							4.78		
2/19/201			5.6						4.96	
2/20/201	8	7.22						5.1		
3/29/201	8			6.09	7.02	5.63				
3/30/201	8						5.73			
4/3/2018	3	6.87	5.84					4.76	5.31	
4/4/2018	3									5.93
6/6/2018	3				7.43					
6/7/2018	3			6.12		5.63				
6/12/201	8						5.63			
6/27/201									4.78	
6/28/201		6.18	5.24					4.75		
8/7/2018		6.08	5.18					4.72	4.77	
9/20/201										5.63
9/24/201		5.81	5.14					4.67	4.78	
9/26/201		-		5.84	7.13	5.63		-	-	
9/27/201							5.47			
	•						-			

	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						

Constituent: pH (S.U.) Analysis Run 4/19/2022 5:15 PM

		Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
	YGWC-43			
6/2/2016				
6/7/2016				
7/26/2016				
7/28/2016				
8/30/2016				
8/31/2016	7.27			
	1.21			
9/14/2016				
9/20/2016				
11/2/2016				
11/4/2016				
11/8/2016				
11/16/2016	6.79			
1/12/2017				
1/13/2017				
1/16/2017				
2/24/2017	6.39			
2/27/2017				
3/6/2017				
3/7/2017				
3/9/2017				
5/1/2017				
5/2/2017				
5/10/2017	6.5			
6/27/2017				
6/29/2017				
7/10/2017				
7/11/2017	6.32			
10/3/2017				
10/5/2017				
10/11/2017				
10/12/2017	5.97			
11/20/2017				
11/21/2017				
1/10/2018				
1/11/2018				
1/12/2018				
2/19/2018				
2/20/2018				
3/29/2018				
3/30/2018				
4/3/2018				
4/4/2018	6.41			
6/6/2018				
6/7/2018				
6/12/2018				
6/27/2018				
6/28/2018				
8/7/2018				
9/20/2018	5.69			
9/24/2018				
9/26/2018				
9/27/2018				

	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	

	YGWC-49	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		( 0,	6.53	( 0)	( 0)	( 0,	( 0,	( 0,	( 3/
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			3.04		7.46	6.33			
6/2/2016				5.46	7.40	0.55		5.75	7.84
7/25/2016				3.40		6.21		5.82	7.04
7/26/2016				5.45	7.43	0.21		3.02	7.88
8/30/2016		5.75		3.43	7.43				7.00
	E 70	5.75							
9/1/2016 9/13/2016	5.78				7.44	6.16	7.41		
					7.44	6.16	7.41		
9/14/2016				5.45					7.74
9/15/2016				5.45				5 70 (D)	7.74
9/19/2016					7.04			5.78 (D)	7.75
11/1/2016					7.24			5.62	7.75
11/2/2016				5.41					
11/4/2016		5.50				6.29	7.12		
11/14/2016		5.59							
11/15/2016	5.81								
11/28/2016			6.23						
12/15/2016							7.24		
1/10/2017				5.37					
1/11/2017					7.3				7.66
1/16/2017						6.29	7.24	5.72	
2/21/2017								5.67	
2/22/2017			6.21						
2/24/2017		5.49							
2/27/2017	5.68								
3/1/2017									
3/2/2017					7.23	6.28			7.68
3/3/2017							7.22		
3/8/2017				5.41					
4/26/2017				5.02				5.56	7.45
4/27/2017					6.99	6.09			
4/28/2017							7.21		
5/8/2017		5.58	6.12						
5/9/2017	6.18								
5/26/2017							7.13		
6/27/2017					6.87	6.21			
6/28/2017							7.06		7.65
6/30/2017				5.39				5.72	
7/11/2017		5.58							
7/13/2017	5.6								

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
7/17/2017			6.03						
10/3/2017					6.81	5.98	6.99		
10/4/2017								5.87	7.49
10/5/2017				5.49					
10/10/2017		5.49							
10/11/2017	5.61								
10/16/2017			6.12						
2/19/2018			6.13						
3/27/2018				5.47		6.25		5.83	
3/28/2018							7.3		7.91
3/29/2018					7.38				
4/2/2018		6.3 (O)							
4/4/2018	5.98								
6/5/2018					7.16				
6/6/2018						6.17			
6/7/2018							7.29		7.69
6/8/2018				5.45					
6/11/2018								5.69	
8/6/2018			6.01						
9/19/2018		5.48							
9/20/2018	5.67								
10/1/2018	0.07			5.39	6.8	5.9	7.07		7.39
10/2/2018				0.00	0.0	0.0	7.07	5.39	7.00
2/25/2019			6.51					5.55	
2/26/2019			0.01	5.46				5.77	
2/27/2019				3.40	6.84	5.8	7.27	3.77	7.55
3/27/2019		5.83			0.04	5.6	1.21		7.55
3/28/2019	5.86	5.65			6.99	6.15			
	5.80			F 24	0.99	0.15	7.06		
3/29/2019				5.34			7.06	F 60	7.07
4/1/2019			6.3					5.62	7.87
6/12/2019									
8/19/2019		F F0	6.23						
8/20/2019		5.58			7.07	0.00	7.04		
9/24/2019				5.40	7.07	6.23	7.01	F 00	7.04
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								

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
2/10/2021				5.35			7.29		7.81
2/11/2021								5.73	
2/12/2021					7.14	6.21			
3/1/2021		5.48						5.78	
3/2/2021			5.42	5.49					
3/3/2021					7.2	5.38	7.92		8.39
3/4/2021	5.88								
8/19/2021		5.5		7.32	6.32	6.38			5.34
8/20/2021			5.86						
8/27/2021							7.14		
9/1/2021	5.15								
2/8/2022	5.79 (D)	5.4	5.83						
2/9/2022					7.12	6.24	5.89		7.97
2/10/2022				4.5					
2/11/2022								5.59	

		Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
	YGWA-3I (bg)			
8/27/2008				
3/3/2009				
11/18/2009				
3/3/2010				
3/10/2011				
9/8/2011				
3/5/2012				
9/10/2012				
2/6/2013				
8/12/2013				
2/5/2014				
8/3/2015				
2/16/2016				
6/1/2016	7.72			
6/2/2016				
7/25/2016	7.74			
7/26/2016				
8/30/2016				
9/1/2016				
9/13/2016				
9/14/2016	7.65			
9/15/2016				
9/19/2016				
11/1/2016	7.7			
11/2/2016				
11/4/2016				
11/14/2016				
11/15/2016				
11/28/2016				
12/15/2016				
1/10/2017				
1/11/2017	7.53			
1/16/2017				
2/21/2017				
2/22/2017				
2/24/2017				
2/27/2017				
3/1/2017	7.42			
3/2/2017				
3/3/2017				
3/8/2017				
4/26/2017	7.4			
4/27/2017				
4/28/2017				
5/8/2017				
5/9/2017				
5/26/2017				
6/27/2017				
6/28/2017	7.5			
6/30/2017				
7/11/2017				
7/13/2017				

		Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
	YGWA-3I (bg)			
7/17/2017	( 6,			
10/3/2017				
10/4/2017	7.45			
10/5/2017				
10/10/2017				
10/11/2017				
10/16/2017				
2/19/2018				
3/27/2018				
3/28/2018	7.74			
3/29/2018				
4/2/2018				
4/4/2018				
6/5/2018				
6/6/2018				
6/7/2018				
6/8/2018	7.64			
6/11/2018				
8/6/2018				
9/19/2018				
9/20/2018				
10/1/2018	7.47			
10/2/2018				
2/25/2019				
2/26/2019				
2/27/2019	7.54			
3/27/2019				
3/28/2019				
3/29/2019				
4/1/2019	7.74			
6/12/2019				
8/19/2019				
8/20/2019				
9/24/2019				
9/25/2019	7.47			
9/26/2019				
10/8/2019				
2/10/2020				
2/11/2020	7.09			
2/12/2020				
3/17/2020				
3/18/2020				
3/19/2020	7.31			
3/25/2020				
5/6/2020				
8/26/2020				
8/27/2020				
9/22/2020	7.07			
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	

			riant rate	53 Ciletti. Odditiei	ii Company Data.	Tidili Tales AlviA-Ti	V
	PZ-35	PZ-37	YGWC-24SA	YGWC-36A	PZ-37D	PZ-52D	PZ-51
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	0.00			
10/6/2017			0.40	5.51			
10/11/2017				5.47			
10/12/2017		5.57		0.47			
11/21/2017		5.49					
1/11/2018		5.87					
2/20/2018		5.9					
3/30/2018		5.9	5.64	5.51			
4/3/2018		5.66	5.04	5.51			
6/12/2018		5.00	5.64				
			5.04	F F			
6/13/2018		F 40		5.5			
6/29/2018		5.49					
8/6/2018		5.52					
9/24/2018		5.37	5.04	5.50			
9/26/2018			5.61	5.53			
3/5/2019			5.72	5.04			
3/6/2019			5.00	5.21			
4/4/2019			5.66	5.74			
9/26/2019			5.52	5.51			
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)	4.66				4.46
2/11/2022				5.58	7.84	6.4	

6/6/2016	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg) <0.005	YGWA-18S (bg) <0.005	YGWA-20S (bg)
6/7/2016						0.001 (J)			<0.005
7/27/2016						0.001 (J)	<0.005	<0.005	<0.005
						0.0012 (3)	<0.005	<0.003	<0.005
7/28/2016						0.0015 (1)		-0.005	
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	0.000	<0.005	
9/25/2018						<0.005	<0.005	<0.005	<0.005
10/16/2018	0.0019 (J)					-0.000	-0.000	-0.000	-0.000
3/5/2019	0.0019 (3)					<0.005		<0.00E	<0.005
						<0.005	<0.00E	<0.005	<0.005
3/6/2019						0.005	<0.005		
4/2/2019						<0.005			
4/3/2019							<0.005	<0.005	<0.005
9/24/2019									
9/25/2019						<0.005			<0.005
9/26/2019	<0.005						<0.005	<0.005	
1/15/2020		<0.005			0.045				
1/16/2020			<0.005	0.0018 (J)					
2/11/2020						<0.005	<0.005	<0.005	
2/12/2020									<0.005
3/24/2020						<0.005	<0.005	<0.005	<0.005
3/25/2020	<0.005								
9/23/2020		<0.005		0.016		<0.005	<0.005	<0.005	
9/24/2020	<0.005				0.026				<0.005
2/9/2021	<0.005	<0.005		<0.005	0.06		<0.005	<0.005	<0.005
3/3/2021	<0.005	<0.005		<0.005		<0.005	<0.005	<0.005	<0.005
3/4/2021					0.061				
8/25/2021				0.019					
8/26/2021					0.055			<0.005	
8/27/2021						<0.005	<0.005		<0.005
9/1/2021	0.0027 (J)	<0.005							
2/9/2022	ν-,					<0.005	<0.005	<0.005	<0.005
2/10/2022	0.0034 (J)	<0.005	<0.005	0.019	0.057	<del>-</del>			
	3.3334 (0)	0.000	0.000	0.0.0	0.007				

	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	-0.000
4/2/2019	<0.005
4/3/2019	-0.000
9/24/2019	<0.005
9/25/2019	<b>~0.003</b>
9/26/2019	
1/15/2020	
1/16/2020	
2/11/2020	
	<0.00E
2/12/2020	<0.005
3/24/2020	<0.005
3/25/2020	
9/23/2020	.0.005
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	

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.005	<0.005	<0.005				
6/7/2016						0.037			
7/26/2016			0.0009 (J)	<0.005	0.0009 (J)				
7/28/2016						0.0385			
8/30/2016									0.0711
8/31/2016									
9/14/2016			<0.005	<0.005	<0.005				
9/20/2016						0.0464			
11/2/2016			<0.005	<0.005					
11/4/2016					<0.005				
11/8/2016						0.0521			
11/16/2016									0.0313
1/12/2017				<0.005	<0.005				
1/13/2017			<0.005						
1/16/2017						0.0469			
2/24/2017									
2/27/2017									0.0316
3/6/2017			<0.005						
3/7/2017				<0.005	<0.005				
3/9/2017						0.0437			
5/1/2017			<0.005	<0.005					
5/2/2017					<0.005	0.0395			
5/10/2017					0.000	0.0000			0.053
6/27/2017				<0.005	<0.005				0.000
6/29/2017			<0.005	10.003	10.000				
7/10/2017			<b>~0.003</b>			0.0386			
7/10/2017						0.0360			0.0697
	<0.00E								0.0097
10/11/2017	<0.005	10.005					0.005	0.0101	0.0504
10/12/2017	.0.005	<0.005					0.265	0.0191	0.0594
11/20/2017	<0.005	0.0042 (J)					0.246		
11/21/2017								0.0687	
1/10/2018		0.0043 (J)							
1/11/2018	<0.005							0.069	
1/12/2018							0.249		
2/19/2018		<0.005						0.071	
2/20/2018	<0.005						0.253		
3/29/2018			<0.005	<0.005	<0.005				
3/30/2018						0.028			
4/3/2018	<0.005	<0.005					0.23	0.067	
4/4/2018									0.055
6/6/2018				<0.005					
6/7/2018			<0.005		<0.005				
6/12/2018						0.026			
6/27/2018								0.066	
6/28/2018	<0.005	0.0032 (J)					0.23		
8/7/2018	<0.005	0.0031 (J)					0.2	0.061	
9/20/2018									0.041
9/24/2018	0.0015 (J)	0.0026 (J)					0.2	0.061	
9/26/2018			<0.005	<0.005	<0.005				
9/27/2018						0.023			
3/4/2019			<0.005	<0.005	<0.005				
3/6/2019						0.019			

4/0/0010	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg) <0.005	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
4/3/2019 4/4/2019			<0.005	<0.005	<0.005	0.017			
8/21/2019	<0.005	0.0024 (J)				0.017			
8/22/2019	<0.005	0.0024 (3)					0.14	0.058	0.047
9/24/2019				<0.005	<0.005		0.14	0.036	0.047
9/25/2019			<0.005	<b>~0.003</b>	<b>~0.003</b>				
9/27/2019			10.003			0.018			
10/9/2019	<0.005	0.0026 (J)				0.010	0.12	0.052	0.042
2/12/2020	<0.005	0.0020 (J)	<0.005	<0.005	<0.005		0.12	0.002	0.042
3/24/2020	10.000	0.002 (J)	-0.000	<0.005	<0.005				
3/25/2020	<0.005	0.002 (0)	<0.005	0.000	0.000		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						

		Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
	YGWC-43			
6/2/2016				
6/7/2016				
7/26/2016				
7/28/2016				
8/30/2016				
8/31/2016	<0.005			
9/14/2016				
9/20/2016				
11/2/2016				
11/4/2016				
11/8/2016				
11/16/2016	<0.005			
1/12/2017				
1/13/2017				
1/16/2017				
2/24/2017	<0.005			
2/27/2017				
3/6/2017				
3/7/2017				
3/9/2017				
5/1/2017				
5/2/2017				
5/10/2017	<0.005			
6/27/2017				
6/29/2017				
7/10/2017				
7/11/2017	<0.005			
10/11/2017				
10/12/2017	<0.005			
11/20/2017				
11/21/2017				
1/10/2018				
1/11/2018				
1/12/2018				
2/19/2018				
2/20/2018				
3/29/2018				
3/30/2018				
4/3/2018				
4/4/2018	<0.005			
6/6/2018				
6/7/2018				
6/12/2018				
6/27/2018				
6/28/2018				
8/7/2018				
9/20/2018	<0.005			
9/24/2018				
9/26/2018				
9/27/2018				
3/4/2019				
3/6/2019				

Constituent: Selenium (mg/L) Analysis Run 4/19/2022 5:15 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
4/3/2019	
4/4/2019	
8/21/2019	<0.005
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	<0.005
2/12/2020	
3/24/2020	
3/25/2020	<0.005
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	<0.005
2/8/2021	
2/9/2021	<0.005
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.005
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	<0.005
2/8/2022	<0.005
2/10/2022	

2/11/2022

	YGWC-49	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			10.003		<0.005	<0.005			
6/2/2016				0.0011 (J)	10.000	10.003		<0.005	<0.005
7/25/2016				0.0011(0)		<0.005		<0.005	10.000
				0.0016 (1)	<0.00E	<0.005		<0.005	<0.00E
7/26/2016		0.0017 (1)		0.0016 (J)	<0.005				<0.005
8/30/2016		0.0017 (J)	<0.005						
8/31/2016	0.0000 ( 1)		<0.005						
9/1/2016	0.0086 (J)				-0.005	-0.005			
9/13/2016					<0.005	<0.005	-0.005		
9/14/2016							<0.005		
9/15/2016				0.0014 (J)					<0.005
9/19/2016								<0.005	
11/1/2016					<0.005			<0.005	<0.005
11/2/2016				<0.005					
11/4/2016						<0.005	<0.005		
11/14/2016		<0.005							
11/15/2016	0.0056 (J)								
11/28/2016			<0.005						
12/15/2016							<0.005		
1/10/2017				0.0012 (J)					
1/11/2017					<0.005				<0.005
1/16/2017						<0.005	<0.005	<0.005	
2/21/2017								<0.005	
2/22/2017			<0.005						
2/24/2017		0.0011 (J)							
2/27/2017	0.0098 (J)								
3/1/2017									
3/2/2017					<0.005	<0.005			<0.005
3/3/2017							<0.005		
3/8/2017				<0.005					
4/26/2017				<0.005				<0.005	<0.005
4/27/2017					<0.005	<0.005			
4/28/2017							<0.005		
5/8/2017		<0.005	<0.005						

	YGWC-49	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	<0.005								
8/6/2018			<0.005						
9/19/2018		<0.005							
9/20/2018	0.0081 (J)	0.000							
2/25/2019	0.000 (0)		<0.005						
2/26/2019			-0.000	<0.005				<0.005	
2/27/2019				-0.003	<0.005	<0.005	<0.005	10.003	<0.005
3/28/2019					<0.005	<0.005	<b>~</b> 0.003		<b>10.003</b>
3/29/2019				0.0010 (1)	<b>~</b> 0.003	<b>~</b> 0.003	<0.005		
				0.0019 (J)			<0.005	<0.00E	<0.00E
4/1/2019			<0.00E					<0.005	<0.005
6/12/2019			<0.005						
8/19/2019		.0.005	<0.005						
8/20/2019		<0.005							
9/24/2019					<0.005	<0.005	<0.005		
9/25/2019				<0.005				<0.005	<0.005
9/26/2019	0.0077 (J)								
10/8/2019			<0.005						
2/10/2020					<0.005	<0.005			
2/11/2020							<0.005		
2/12/2020				<0.005				<0.005	<0.005
3/17/2020			<0.005						
3/18/2020				<0.005		<0.005			
3/19/2020					<0.005		<0.005	<0.005	<0.005
3/25/2020	0.0085 (J)								
8/26/2020			<0.005						
8/27/2020		<0.005							
9/22/2020			<0.005						
9/23/2020					<0.005	<0.005	<0.005		<0.005
9/24/2020	0.0091 (J)							<0.005	
9/25/2020				<0.005					
2/9/2021	0.0079 (J)								
2/10/2021				<0.005			<0.005		<0.005
2/11/2021								<0.005	
2/12/2021					<0.005	<0.005			
3/1/2021								<0.005	
3/2/2021			<0.005	<0.005					

2/2/2021	YGWC-49	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	

		Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
	YGWA-3I (bg)			
5/1/2007	( 0)			
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				
	10.005			
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				
5/26/2017				
6/27/2017				
	<b>*0.00</b> F			
6/28/2017	<0.005			
6/30/2017				
7/11/2017				
7/13/2017				
7/17/2017				
10/10/2017				
10/11/2017				
10/16/2017				
2/19/2018				
3/27/2018				
3/28/2018	<0.005			
3/29/2018				
4/2/2018				
4/4/2018				
8/6/2018				
9/19/2018				
9/20/2018				
2/25/2019				
2/26/2019				
2/27/2019	<0.005			
3/28/2019				
3/29/2019				
4/1/2019	<0.005			
6/12/2019				
8/19/2019				
8/20/2019				
9/24/2019				
9/25/2019	<0.005			
9/26/2019				
10/8/2019				
2/10/2020				
2/11/2020	<0.005			
2/12/2020				
3/17/2020				
3/18/2020				
3/19/2020	<0.005			
3/25/2020	-0.003			
8/26/2020				
8/26/2020				
9/22/2020	40 00E			
9/23/2020	<0.005			
9/24/2020				
9/25/2020				
2/9/2021	0.005			
2/10/2021	<0.005			
2/11/2021				
2/12/2021				
3/1/2021				
3/2/2021				

	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	

	PZ-35	PZ-37	YGWC-24SA	YGWC-36A	PZ-37D	PZ-52D	PZ-51
6/8/2016			<0.005				
8/1/2016			<0.005				
9/2/2016				0.0012 (J)			
9/20/2016			<0.005				
11/8/2016			<0.005				
11/14/2016				<0.005			
1/17/2017			<0.005				
2/28/2017				0.0017 (J)			
3/8/2017			<0.005				
5/2/2017			<0.005				
5/9/2017				0.0018 (J)			
7/7/2017			<0.005				
7/13/2017				0.0031 (J)			
9/22/2017				0.0024 (J)			
9/29/2017				0.002 (J)			
10/6/2017				<0.005			
10/12/2017		0.234					
11/21/2017		0.225					
1/11/2018		0.168					
2/20/2018		0.315					
3/30/2018			<0.005	<0.005			
4/3/2018		0.28					
6/12/2018			<0.005				
6/13/2018				0.0024 (J)			
6/29/2018		0.26					
8/6/2018		0.21					
9/24/2018		0.33					
9/26/2018			<0.005	0.0037 (J)			
10/16/2018	<0.005						
3/5/2019			<0.005				
3/6/2019				0.0033 (J)			
4/4/2019			<0.005	0.0029 (J)			
9/26/2019	<0.005		<0.005	0.0019 (J)			
3/25/2020	<0.005			0.0024 (J)			
3/26/2020			<0.005				
9/23/2020			<0.005				
9/24/2020	<0.005						
9/25/2020		0.32					
10/7/2020				<0.005			
2/9/2021		0.28	<0.005				
2/10/2021	<0.005			<0.005			
3/3/2021			<0.005				
3/4/2021	<0.005	0.27		<0.005			
8/25/2021		0.2					
9/1/2021	0.0016 (J)		<0.005				
9/3/2021	.,			<0.005	<0.005		
2/10/2022	0.003 (J)	0.2	<0.005				0.029
2/11/2022	\-,'			<0.005	<0.005	0.0025 (J)	
				<del>-</del>		(-)	

	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	
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	
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				

Constituent: Sulfate (mg/L) Analysis Run 4/19/2022 5:15 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	5.2
7/27/2016	
7/28/2016	5.1
9/16/2016	
9/19/2016	4.8
11/2/2016	
11/3/2016	5
1/11/2017	
1/13/2017	4.3
3/1/2017	
3/2/2017	
3/6/2017	4.5
4/26/2017	4.9
5/2/2017	
6/28/2017	
6/29/2017	5.5
10/3/2017	5.8
10/4/2017	
10/5/2017	
6/5/2018	6.1
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	7
10/16/2018	
4/2/2019	3.8
4/3/2019	
9/24/2019	1
9/25/2019	
9/26/2019	
3/24/2020	3
3/25/2020	
9/23/2020	
9/24/2020	3.6
3/3/2021	
3/4/2021	4.5
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	5
2/9/2022	3.9

2/10/2022

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			8	20	1.9				
6/7/2016						56			
7/26/2016			7.7	20	1.8				
7/28/2016						57			
8/30/2016									980
8/31/2016									
9/14/2016			7.5	19	1.8				
9/20/2016						68			
11/2/2016			8.2	20					
11/4/2016					2				
11/8/2016						79			
11/16/2016									940
1/12/2017				19	1.9				
1/13/2017			8.1						
1/16/2017						72			
2/24/2017									
2/27/2017									940
3/6/2017			8						
3/7/2017				20	2.1				
3/9/2017						69			
5/1/2017			8.4	20					
5/2/2017					2	60			
5/10/2017									1200
6/27/2017				18	2.1				
6/29/2017			9.2						
7/10/2017						57			
7/11/2017									1300
10/3/2017				16	2.3				
10/5/2017			9.6						
10/11/2017	20					52			
10/12/2017		17					940	400	1100
11/20/2017	24	71					980		
11/21/2017								430	
1/10/2018		66							
1/11/2018	23							390	
1/12/2018							880		
2/19/2018		57.2						414	
2/20/2018	20.6						905		
4/3/2018	24.5	49.4					872	406	
4/4/2018									1020
6/6/2018				8.3					
6/7/2018			8.5		2				
6/12/2018						41.4			
6/27/2018								357	
6/28/2018	22	43.8					869	0.40	
8/7/2018	20.7	40.5					879	346	040
9/20/2018	0.1.0	00.7					070	050	810
9/24/2018	21.2	39.7	10.2	7.0	2.2		872	358	
9/26/2018			10.2	7.9	2.3	20.6			
9/27/2018		24.2				39.6			
3/26/2019	17.7	34.3					051		024
3/27/2019	17.7						851		831

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/28/2019								258	
4/3/2019			8.5	7	2.1				
4/4/2019						27.9			
9/24/2019				5.5	2.4				
9/25/2019			8.5						
9/27/2019						30.3			
10/9/2019	15	27.9					708	263	725
3/24/2020		25.2		5.9	2.1				
3/25/2020	14.3		8.8				483	214	642
3/26/2020						36.5			
9/22/2020			8.2	5.5	2.1				
9/24/2020	11.7	22.9				52.5			579
9/25/2020							414	175	
3/2/2021				2.6	2.3				
3/3/2021			7.8						
3/4/2021	12	21.5				61.7 (M1)	356	117	537
8/25/2021						68			500
8/26/2021	19.2		8.5	6	2.4		328	117	
9/3/2021		21.3							
9/27/2021									
2/8/2022	14.6	17.9						109	
2/10/2022				4.9	2.4	78.7	290		485
2/11/2022			7.7						

		Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
	YGWC-43			
6/2/2016	14110 40			
6/7/2016				
7/26/2016				
7/28/2016				
8/30/2016				
8/31/2016	34			
9/14/2016				
9/20/2016				
11/2/2016				
11/4/2016				
11/8/2016				
11/16/2016	240			
1/12/2017				
1/13/2017				
1/16/2017				
2/24/2017	89			
2/27/2017				
3/6/2017				
3/7/2017				
3/9/2017				
5/1/2017				
5/2/2017				
5/10/2017	100			
6/27/2017				
6/29/2017				
7/10/2017				
7/11/2017	110			
10/3/2017				
10/5/2017				
10/11/2017				
10/12/2017	120			
11/20/2017				
11/21/2017				
1/10/2018				
1/11/2018				
1/12/2018				
2/19/2018				
2/20/2018				
4/3/2018				
4/4/2018	160			
6/6/2018				
6/7/2018				
6/12/2018				
6/27/2018				
6/28/2018				
8/7/2018				
9/20/2018	247			
9/24/2018				
9/26/2018				
9/27/2018				
3/26/2019				
3/27/2019				

	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	

						,				
6	/1/2016	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg) 5	YGWA-1I (bg) 4.2	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
					6.6	3	7.2		1.2	E 0
	/2/2016				6.6		0.7		1.3	5.8
	/25/2016						3.7		1.2	
	/26/2016				6.1	5.4				6.7
	/30/2016		160							
	/31/2016			29						
	/1/2016	95								
	/13/2016					2.9	5.2			
	/14/2016							9.4		
	/15/2016				6.1					6
	/19/2016								1.2	
	1/1/2016					3.9			1.3	4.9
1	1/2/2016				6.3					
	1/4/2016						5	13		
1	1/14/2016		150							
1	1/15/2016	94								
1	1/28/2016			36						
1:	2/15/2016							1.8		
1.	/10/2017				5.9					
1.	/11/2017					3.7				4.5
1.	/16/2017						7.9	11	<1	
2	/21/2017								1.4	
2	/22/2017			43						
2	/24/2017		120							
2	/27/2017	84								
3.	/1/2017									
3.	/2/2017					4.6	7.4			4.4
3.	/3/2017							8.8		
	/8/2017				7					
4.	/26/2017				7				1.4	5.1
	/27/2017					5.2	7.4			
	/28/2017							10		
	/8/2017		120	60						
	/9/2017	91								
	/26/2017							12		
	/27/2017					5.9	6.4			
	/28/2017							11		5.4
	/30/2017				6.5				<1	
	/11/2017		110							
	/13/2017	88								
	/17/2017			63						
	0/3/2017					6.6	5.9	7.9		
	0/4/2017								1.4	6.2
	0/5/2017				7.9					
	0/10/2017		93		7.0					
	0/11/2017	86								
	0/16/2017			62						
	/19/2018			64.6						
	/2/2018		88.8	U-1.U						
	/4/2018	76.5	00.0							
	/5/2018	, 0.0				6.4				
	/6/2018					J. <del>4</del>	4.4			
0	10/2010						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			0.0		0.7
6/11/2018								1.1	
8/6/2018			42.1						
9/19/2018		75							
9/20/2018	84.1								
10/1/2018				6.8	5.6	4	9.1		7.1
10/2/2018								1	
2/25/2019			42.1						
3/27/2019		65.9							
3/28/2019	82.8				8	4.3			
3/29/2019				7.3			9		
4/1/2019								0.96 (J)	7.2
6/12/2019			83.4						
9/24/2019					5.3	4.3	9.1		
9/25/2019				6.6				0.81 (J)	7
9/26/2019	80								
10/8/2019		52.3	128						
3/17/2020		71.6	98.6						
3/18/2020				8.1		5.3			
3/19/2020					10		12.4	1.6	9
3/25/2020	76.1								
9/22/2020		51.5	145						
9/23/2020					8.1	3.4	11.8		6.9
9/24/2020	77							0.69 (J)	
9/25/2020				6.1					
3/1/2021		51.6						0.88 (J)	
3/2/2021			156	6					
3/3/2021					9	4.4	10.6		7
3/4/2021	75.1								
8/19/2021		52.6		6.7	8.9	4.9		1	7.5
8/20/2021			121						
8/27/2021							16.7		
9/1/2021	79.8								
2/8/2022	73.9	50.9	107						
2/9/2022					9.3	5.1	18		7.2
2/10/2022				6.2					
2/11/2022								2.8	

		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	0.0			
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	0.0			
3/3/2017				
3/8/2017				
4/26/2017	11			
4/27/2017				
4/28/2017				
5/8/2017				
5/9/2017				
5/26/2017				
6/27/2017				
6/28/2017	12			
6/30/2017				
7/11/2017				
7/13/2017				
7/17/2017				
10/3/2017				
10/4/2017	12			
10/5/2017				
10/10/2017				
10/11/2017				
10/16/2017				
2/19/2018				
4/2/2018				
4/4/2018				
6/5/2018 6/6/2018				
0/0/2010				

	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	

				· idiii		ioni company	Juliu: 1 10111 1 11100 7 11111		
		PZ-35	PZ-37	YGWC-24SA	YGWC-36A	PZ-37D	PZ-52D	PZ-51	
6/8/20	016			<1					
8/1/20	016			1.1					
9/2/20	016				72				
9/20/2				0.38 (J)					
11/8/2	2016			0.39 (J)					
11/14	1/2016				110				
1/17/2	2017			<1					
2/28/2					110				
3/8/20				0.29 (J)					
5/2/20				0.29 (J)					
5/9/20					130				
7/7/20				0.37 (J)					
7/13/2					140				
9/22/2					160				
9/29/2					160				
10/5/2	2017			<1					
10/6/2					160				
10/11					150				
10/12			650						
11/21			700						
1/11/2			590						
2/20/2	2018		677						
4/3/20	018		615						
6/12/2	2018			0.35 (J)					
6/13/2	2018				144				
6/29/2	2018		634						
8/6/20	018		623						
9/24/2	2018		674						
9/26/2	2018			0.28 (J)	160				
10/16	5/2018	34.2							
4/4/20	019			0.29 (J)	119				
9/26/2	2019	14.3		0.23 (J)	84.8				
3/25/2	2020	36.1			58.8				
3/26/2	2020			<1					
9/23/2	2020			<1					
9/24/2	2020	7.2							
9/25/2	2020		563						
10/7/2	2020				18.2				
3/3/20	021			<1					
3/4/20	021	8.8	485		6.3				
8/25/2	2021		472						
9/1/20	021	38.7		<1					
9/3/20	021				13.8	153			
2/10/2	2022	42.6	452	<1				306	
2/11/2	2022				16.4	115	209		

	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				

Constituent: Thallium (mg/L) Analysis Run 4/19/2022 5:15 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	<0.001
7/27/2016	
7/28/2016	<0.001
9/16/2016	
9/19/2016	<0.001
11/2/2016	
11/3/2016	<0.001
1/11/2017	
1/13/2017	<0.001
3/1/2017	
3/2/2017	
3/6/2017	<0.001
4/26/2017	<0.001
5/2/2017	
6/28/2017	
6/29/2017	<0.001
3/28/2018	
3/29/2018	<0.001
9/25/2018	<0.001
3/5/2019	<0.001
3/6/2019	
4/2/2019	<0.001
4/3/2019	
9/24/2019	<0.001
9/25/2019	
9/26/2019	
2/11/2020	
2/12/2020	<0.001
3/24/2020	<0.001
3/25/2020	
9/23/2020	
9/24/2020	<0.001
2/9/2021	<0.001
2/9/2022	<0.001

2/10/2022

	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				0.001
1/13/2017			<0.001	0.001	0.001				
1/16/2017			-0.001			<0.001			
2/24/2017						10.001			
2/27/2017									<0.001
3/6/2017			<0.001						<b>~0.001</b>
3/7/2017			<b>~0.001</b>	<0.001	<0.001				
				<0.001	<0.001	<0.001			
3/9/2017			-0.004	-0.001		<0.001			
5/1/2017			<0.001	<0.001	.0.004	.0.004			
5/2/2017					<0.001	<0.001			.0.004
5/10/2017					.0.004				<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						

Constituent: Thallium (mg/L) Analysis Run 4/19/2022 5:15 PM

		Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
	YGWC-43			
6/2/2016				
6/7/2016				
7/26/2016				
7/28/2016				
8/30/2016				
8/31/2016	<0.001			
	<0.001			
9/14/2016				
9/20/2016				
11/2/2016				
11/4/2016				
11/8/2016				
11/16/2016	<0.001			
1/12/2017				
1/13/2017				
1/16/2017				
2/24/2017	<0.001			
2/27/2017				
3/6/2017				
3/7/2017				
3/9/2017				
5/1/2017				
5/2/2017				
5/10/2017	<0.001			
6/27/2017				
6/29/2017				
7/10/2017				
7/11/2017	<0.001			
10/11/2017				
10/12/2017	<0.001			
11/20/2017				
11/21/2017				
1/10/2018				
1/11/2018				
1/12/2018				
2/19/2018				
2/20/2018				
3/29/2018				
3/30/2018				
4/3/2018				
4/4/2018	<0.001			
6/27/2018				
6/28/2018				
8/7/2018				
9/20/2018	<0.001			
9/24/2018				
3/4/2019				
3/6/2019				
4/3/2019				
4/4/2019				
8/21/2019	<0.001			
8/22/2019				
9/24/2019				

	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	

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			<0.001	, ,				, -,	, ,,
9/11/2007			<0.001						
3/20/2008			<0.001						
8/27/2008			<0.001						
3/3/2009			<0.001						
11/18/2009			<0.001						
3/3/2010			<0.001						
9/8/2010			<0.001						
3/10/2011			<0.001						
9/8/2011			<0.001						
3/5/2012			<0.001						
9/10/2012			<0.001						
2/6/2013			<0.001						
8/12/2013			<0.001						
2/5/2014			<0.001						
8/5/2014			<0.001						
2/4/2015			<0.001						
2/16/2016			<0.001						
6/1/2016					<0.001	<0.001			
6/2/2016				<0.001				<0.001	<0.001
7/25/2016						<0.001		<0.001	
7/26/2016				<0.001	<0.001				0.0001 (J)
8/30/2016		<0.001							
8/31/2016			<0.001						
9/1/2016	<0.001								
9/13/2016					<0.001	<0.001			
9/14/2016							<0.001		
9/15/2016				<0.001					<0.001
9/19/2016								<0.001	
11/1/2016					<0.001			<0.001	<0.001
11/2/2016				<0.001					
11/4/2016						<0.001	<0.001		
11/14/2016		<0.001							
11/15/2016	<0.001								
11/28/2016	0.001		<0.001						
12/15/2016			0.001				<0.001		
1/10/2017				<0.001			-0.001		
1/11/2017				10.001	<0.001				<0.001
1/16/2017					10.001	<0.001	<0.001	<0.001	VO.001
2/21/2017						<0.001	<b>~</b> 0.001	<0.001	
			10.001					<0.001	
2/22/2017			<0.001						
2/24/2017	05.05 (1)	<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	<b>~0.001</b>		
6/28/2017					10.001	40.001	<0.001		<0.001
6/30/2017				<0.001			<b>~0.001</b>	<0.001	<b>~0.001</b>
7/11/2017		<0.001		<b>\0.001</b>				<b>~0.001</b>	
7/13/2017	<0.001	<0.001							
	<0.001		CE OF (I)						
7/17/2017		<0.001	6E-05 (J)						
10/10/2017	-0.001	<0.001							
10/11/2017	<0.001		75.05.41)						
10/16/2017			7E-05 (J)						
2/19/2018			<0.001	0.004		.0.004		.0.004	
3/27/2018				<0.001		<0.001		<0.001	
3/28/2018							<0.001		<0.001
3/29/2018					<0.001				
4/2/2018		<0.001							
4/4/2018	<0.001								
8/6/2018			<0.001						
9/19/2018		<0.001							
9/20/2018	<0.001								
2/25/2019			<0.001						
2/26/2019				<0.001				<0.001	
2/27/2019					<0.001	<0.001	<0.001		<0.001
6/12/2019			<0.001						
8/19/2019			5.5E-05 (J)						
8/20/2019		5.8E-05 (J)							
9/26/2019	<0.001								
10/8/2019		8.4E-05 (J)	<0.001						
2/10/2020					<0.001	5.5E-05 (J)			
2/11/2020							<0.001		
2/12/2020				8.9E-05 (J)				<0.001	<0.001
3/17/2020		<0.001	<0.001						
3/18/2020				<0.001		<0.001			
3/19/2020					<0.001		<0.001	<0.001	<0.001
3/25/2020	<0.001								
8/26/2020			<0.001						
8/27/2020		<0.001							
9/22/2020			<0.001						
9/23/2020					<0.001	<0.001	<0.001		<0.001
9/24/2020	<0.001							<0.001	
9/25/2020				<0.001					
2/9/2021	<0.001								
2/10/2021				<0.001			<0.001		<0.001
2/11/2021								<0.001	
2/12/2021					<0.001	<0.001			
3/2/2021			<0.001						
8/19/2021		<0.001							
8/20/2021			<0.001						
2/8/2022	<0.001	<0.001	<0.001						
2/9/2022	<del>-</del>		<del>-</del>		<0.001	<0.001	<0.001		<0.001
2/10/2022				<0.001					
2/11/2022								<0.001	
022								0.001	

		Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
	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				
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	<0.001			
9/14/2016	<0.001			
9/15/2016				
9/19/2016				
11/1/2016	<0.001			
11/2/2016				
11/4/2016				
11/14/2016				
11/15/2016				
11/28/2016				
12/15/2016				
1/10/2017				
1/11/2017	<0.001			
1/16/2017				
2/21/2017				
2/22/2017				
2/24/2017				
2/27/2017				
3/1/2017	<0.001			
3/2/2017				
3/3/2017				
3/8/2017				
4/26/2017	<0.001			
4/27/2017				
4/28/2017				
5/8/2017				
5/9/2017				
0.0.2017				

		Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
	YGWA-3I (bg)			
5/26/2017	(-9)			
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	<b>10.001</b>			
2/11/2021				
3/2/2021				
8/19/2021				
8/20/2021				
2/8/2022				
2/9/2022	<0.001			
2/10/2022				
2/11/2022				

	PZ-35	PZ-37	YGWC-24SA	YGWC-36A	PZ-37D	PZ-52D	PZ-51
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	

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							120	58	
6/7/2016						28			38
7/27/2016						74	94	35	74
7/28/2016									
9/16/2016						67		35	
9/19/2016							92		45
11/2/2016									53
11/3/2016						41	104	48	
1/11/2017						104	133	95	
1/13/2017									46
3/1/2017							119	79	
3/2/2017						77			
3/6/2017									164
4/26/2017							162	36	34
5/2/2017						142			
6/28/2017							98	45	
6/29/2017						53			68
10/3/2017									
10/4/2017						61		45	54
10/5/2017							104		
6/5/2018									
6/6/2018									79
6/7/2018							68		
6/11/2018						70	00	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						<b>.</b>	126	72	
3/24/2020						71	91	59	76
3/25/2020	139						0.		
9/23/2020	100	62		329		99	103	81	
9/24/2020	106	02		020	788	00	100	01	69
3/3/2021	121	40		245	700	57	95	37	53
3/4/2021	121	40		240	604	07	50	07	00
8/25/2021				332					
8/26/2021				00 <u>2</u>	570			31	
8/27/2021					0,0	93	112	J.	67
9/1/2021	219	60				55	114		·,
2/9/2022	213	00				81	103	60	72
2/10/2022	281	48	606	346	499	O I	103	50	14
ZI 10/2022	201	40	000	340	433				

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	60
7/27/2016	
7/28/2016	81
9/16/2016	
9/19/2016	68
11/2/2016	
11/3/2016	61
1/11/2017	
1/13/2017	76
3/1/2017	
3/2/2017	
3/6/2017	167
4/26/2017	50
5/2/2017	
6/28/2017	
6/29/2017	94
10/3/2017	149
10/4/2017	
10/5/2017	
6/5/2018	109
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	122
10/16/2018	
4/2/2019	134
4/3/2019	
9/24/2019	157
9/25/2019	
9/26/2019	
3/24/2020	117
3/25/2020	
9/23/2020	
9/24/2020	113
3/3/2021	
3/4/2021	110
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	137
2/9/2022	131

2/10/2022

		YGWA-39 (bg)	YGWA-40 (bg)		YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
	6/2/2016			96	160	66				
	6/7/2016						130			
	7/26/2016			92	177	78				
7	7/28/2016						119			
8	3/30/2016									1650
8	3/31/2016									
9	9/14/2016			102	187	73				
9	9/20/2016						132			
-	11/2/2016			115	181					
-	11/4/2016					75				
	11/8/2016						146			
	11/16/2016									1420
	1/12/2017				202	86				
-	1/13/2017			67						
	1/16/2017						194			
2	2/24/2017									
2	2/27/2017									1640
3	3/6/2017			159						
	3/7/2017				257	108				
	3/9/2017						288			
	5/1/2017			107	165					
	5/2/2017					103	221			
	5/10/2017									1630
	6/27/2017				189	73				1000
	6/29/2017			79	100	70				
	7/10/2017			75			123			
	7/10/2017						123			1800
	10/3/2017				170	89				1000
	10/5/2017			95	170	09				
		60		95			100			
	10/11/2017	68	74				100	1260	626	1600
	10/12/2017		74					1360	636	1600
	11/20/2017	139	179					1390	700	
	11/21/2017		110						706	
	1/10/2018	150	140						704	
	1/11/2018	153							701	
	1/12/2018							1400		
	2/19/2018		119						630	
	2/20/2018	87						1300		
	4/3/2018	85	106					1390	660	
	4/4/2018									1520
	6/6/2018				151					
	6/7/2018			90		142				
	6/12/2018						115			
6	6/27/2018								575	
	6/28/2018		112					1310		
	3/7/2018	89	103					1340	574	
9	9/20/2018									1240
9	9/24/2018	82	107					1400	588	
(	9/26/2018			116	144	86				
9	9/27/2018						105			
3	3/26/2019		90							
3	3/27/2019	75						1190		1100

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/28/2019								372	
4/3/2019			111	142	83				
4/4/2019						85			
9/24/2019				129	79				
9/25/2019			117						
9/27/2019						96			
10/9/2019	119	98					1100	440	1170
3/24/2020		84		139	68				
3/25/2020	158		146				883	428	1200
3/26/2020						110			
9/22/2020			83	104	75				
9/24/2020	170	77				129			1060
9/25/2020							664	307	
3/2/2021				52	67				
3/3/2021			80						
3/4/2021	168	57				96	600	224	501
8/25/2021						141			886
8/26/2021	249		93	123	86		562	225	
9/3/2021		88							
9/27/2021									
2/8/2022	248	93						226	
2/10/2022				127	77	180	541		882
2/11/2022			102						

		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				
	110			
	112			
1/12/2017				
1/13/2017				
1/16/2017	447			
2/24/2017	147			
2/27/2017				
3/6/2017				
3/7/2017				
3/9/2017				
5/1/2017				
5/2/2017	000			
5/10/2017	203			
6/27/2017				
6/29/2017				
7/10/2017	228			
7/11/2017	238			
10/3/2017 10/5/2017				
10/3/2017				
10/11/2017	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				

	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	

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016					120	54			
6/2/2016				46				36	130
7/25/2016						48		50	
7/26/2016				54	94				141
8/30/2016		319							
8/31/2016			209						
9/1/2016	228								
9/13/2016					105	67			
9/14/2016							152		
9/15/2016				54					153
9/19/2016								35	
11/1/2016					44			<25	92
11/2/2016				71					
11/4/2016						60	148		
11/14/2016		280							
11/15/2016	211								
11/28/2016			102						
12/15/2016							191		
1/10/2017				45					
1/11/2017					107				159
1/16/2017						65	180	47	
2/21/2017								<25	
2/22/2017			164						
2/24/2017		162							
2/27/2017	382	.02							
3/1/2017	002								
3/2/2017					98	61			117
3/3/2017					30	01	156		117
3/8/2017				178			130		
								EE	101
4/26/2017 4/27/2017				52	116	31		55	181
					110	31	120		
4/28/2017		104	145				130		
5/8/2017	454	194	145						
5/9/2017	154						000		
5/26/2017							223		
6/27/2017					89	42			
6/28/2017							166		169
6/30/2017				45				42	
7/11/2017		193							
7/13/2017	192								
7/17/2017			185						
10/3/2017					119	58	153		
10/4/2017								31	141
10/5/2017				40					
10/10/2017		175							
10/11/2017	177								
10/16/2017			218						
2/19/2018			173						
4/2/2018		192							
4/4/2018	174								
6/5/2018					127				
6/6/2018						96			

6/7	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) 95
	8/2018				114			140		30
	11/2018								59	
	6/2018			158						
	19/2018		186	.00						
	20/2018	186	.00							
	/1/2018				50	117	60	155		165
	/2/2018								57	
	25/2019			92						
	27/2019		170							
	28/2019	164				87	87			
	29/2019				63			150		
	1/2019								54	149
6/	12/2019			226						
	24/2019					124	54	146		
9/2	25/2019				64				51	157
9/2	26/2019	192								
10	/8/2019		172	276						
	17/2020		165	185						
3/	18/2020				57		35			
3/	19/2020					116		148	47	146
3/2	25/2020	130								
9/2	22/2020		141	281						
9/2	23/2020					108	15	161		157
9/2	24/2020	187							51	
9/2	25/2020				54					
3/	1/2021		145						23	
3/2	2/2021			296	67					
3/3	3/2021					99	39	138		137
3/4	4/2021	145								
8/	19/2021		134		54	105	44		50	144
8/2	20/2021			254						
8/2	27/2021							150		
9/	1/2021	163								
2/8	8/2022	164	151	283						
2/9	9/2022					105	57	156		154
2/	10/2022				56					
2/	11/2022								66	

		Plant Yates	Client: Southern Company	Data: Plant Yates AMA-R6
	YGWA-3I (bg)			
6/1/2016	150			
6/2/2016				
7/25/2016	135			
7/26/2016				
8/30/2016				
8/31/2016				
9/1/2016				
9/13/2016				
9/14/2016	127			
9/15/2016				
9/19/2016				
11/1/2016	75			
11/2/2016				
11/4/2016				
11/14/2016				
11/15/2016				
11/28/2016				
12/15/2016				
1/10/2017				
1/11/2017	148			
1/16/2017				
2/21/2017				
2/22/2017				
2/24/2017				
2/27/2017				
3/1/2017	182			
3/2/2017				
3/3/2017				
3/8/2017	00			
4/26/2017	92			
4/27/2017 4/28/2017				
5/8/2017				
5/9/2017				
5/26/2017				
6/27/2017				
6/28/2017	126			
6/30/2017				
7/11/2017				
7/13/2017				
7/17/2017				
10/3/2017				
10/4/2017	147			
10/5/2017				
10/10/2017				
10/11/2017				
10/16/2017				
2/19/2018				
4/2/2018				
4/4/2018				
6/5/2018				
6/6/2018				

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/19/2022 5:15 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

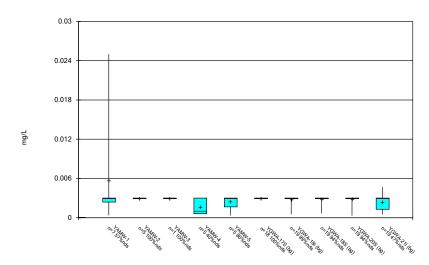
	YGWA-3I (bg)
6/7/2018	
6/8/2018	158
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	138
10/2/2018	
2/25/2019	
3/27/2019	
3/28/2019	
3/29/2019	
4/1/2019	19 (J)
6/12/2019	
9/24/2019	
9/25/2019	159
9/26/2019	
10/8/2019	
3/17/2020	
3/18/2020	
3/19/2020	148
3/25/2020	
9/22/2020	
9/23/2020	155
9/24/2020	
9/25/2020	
3/1/2021	
3/2/2021	
3/3/2021	111
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	155
9/1/2021	
2/8/2022	
2/9/2022	145
2/10/2022	

2/11/2022

					company Data.		<b>~</b>
	PZ-35	PZ-37	YGWC-24SA	YGWC-36A	PZ-37D	PZ-52D	PZ-51
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			59	277			
10/16/2018	123						
4/4/2019			63	240			
9/26/2019			81	198			
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	78				574
2/11/2022				81	382	456	

# FIGURE B.

Box & Whiskers Plot

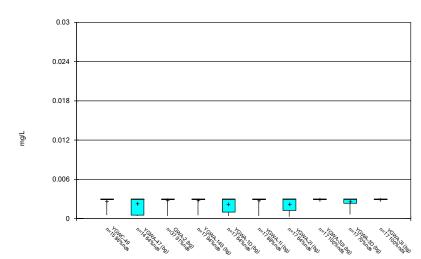


Constituent: Antimony Analysis Run 4/19/2022 5:22 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

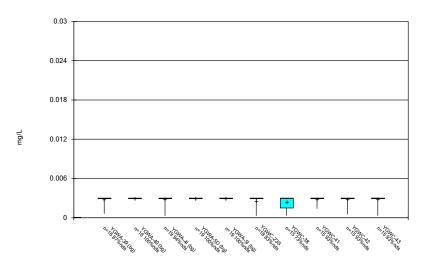
Box & Whiskers Plot



Constituent: Antimony Analysis Run 4/19/2022 5:22 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

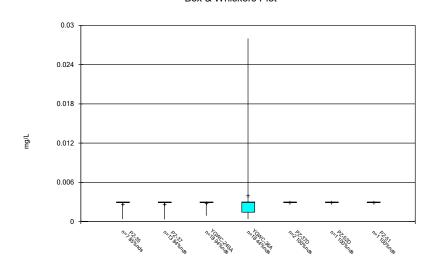
Box & Whiskers Plot



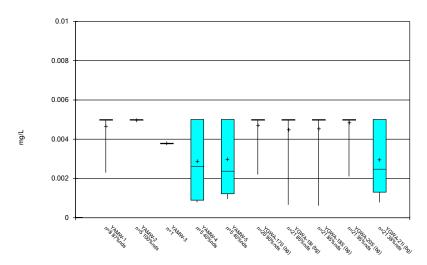
Constituent: Antimony Analysis Run 4/19/2022 5:22 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



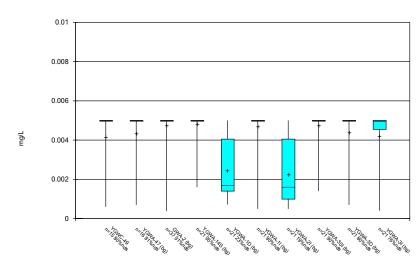
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 4/19/2022 5:22 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

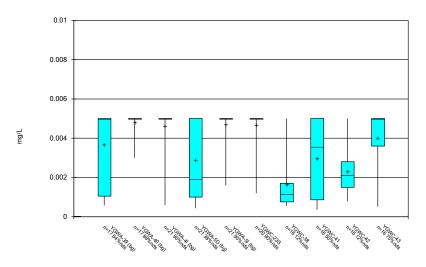
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Arsenic Analysis Run 4/19/2022 5:22 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

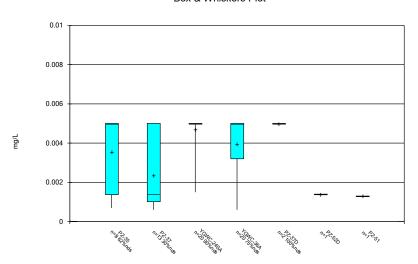
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 4/19/2022 5:22 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

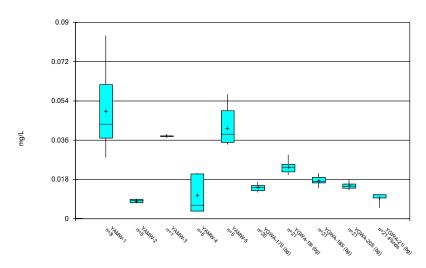
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Arsenic Analysis Run 4/19/2022 5:22 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

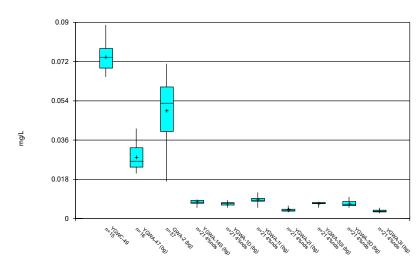
Box & Whiskers Plot



Constituent: Barium Analysis Run 4/19/2022 5:22 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

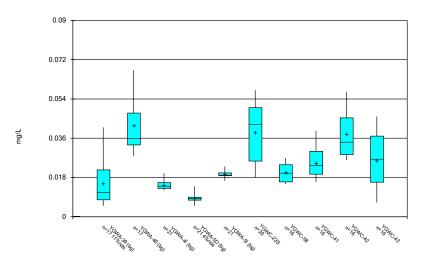
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Barium Analysis Run 4/19/2022 5:22 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

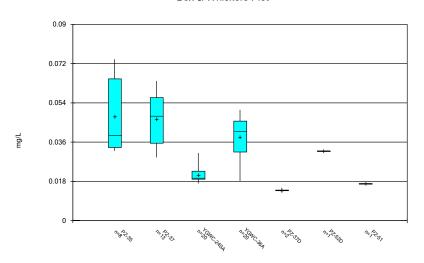
Box & Whiskers Plot



Constituent: Barium Analysis Run 4/19/2022 5:22 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

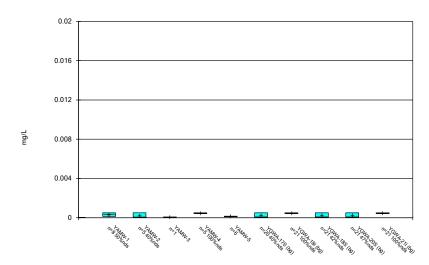
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Box & Whiskers Plot



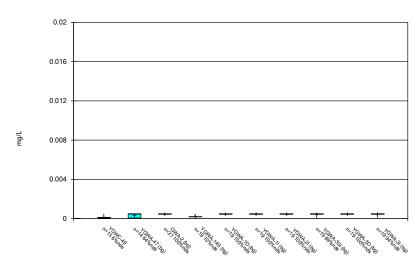
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6





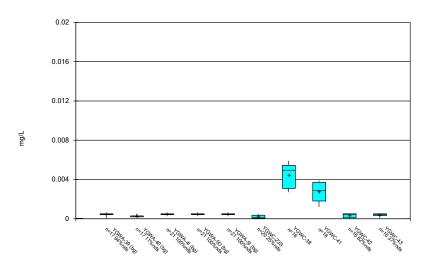
Constituent: Beryllium Analysis Run 4/19/2022 5:22 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



Constituent: Beryllium Analysis Run 4/19/2022 5:22 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

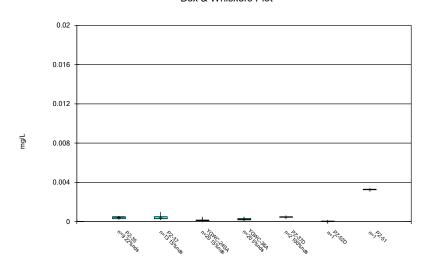
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 4/19/2022 5:22 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

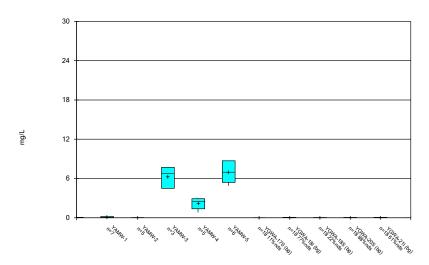
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Beryllium Analysis Run 4/19/2022 5:22 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

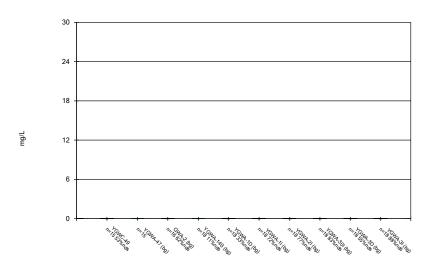
Box & Whiskers Plot



Constituent: Boron Analysis Run 4/19/2022 5:22 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

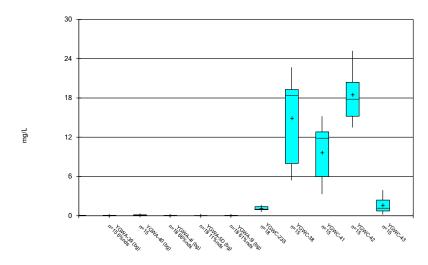
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Boron Analysis Run 4/19/2022 5:22 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

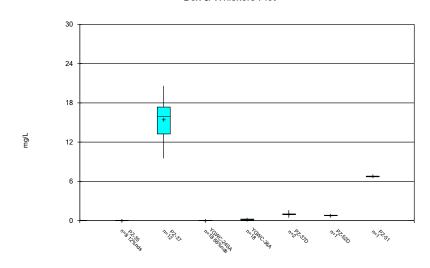
Box & Whiskers Plot



Constituent: Boron Analysis Run 4/19/2022 5:22 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

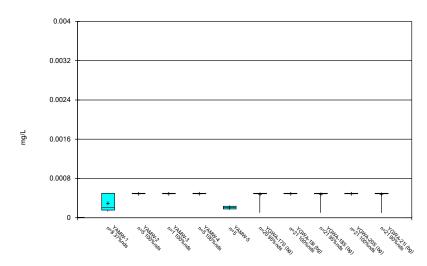
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Boron Analysis Run 4/19/2022 5:22 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

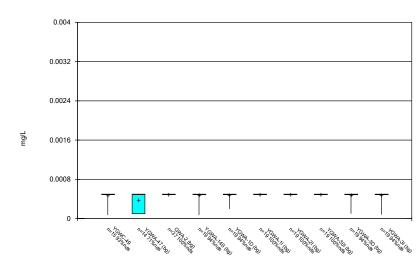
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 4/19/2022 5:22 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

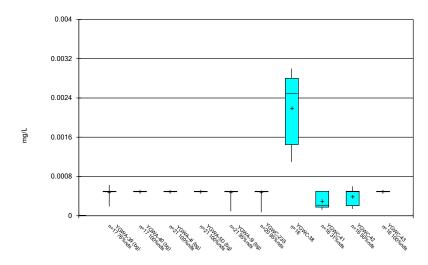
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Cadmium Analysis Run 4/19/2022 5:22 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

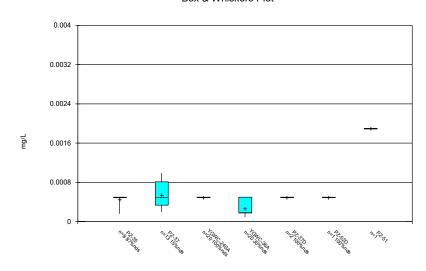
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 4/19/2022 5:22 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

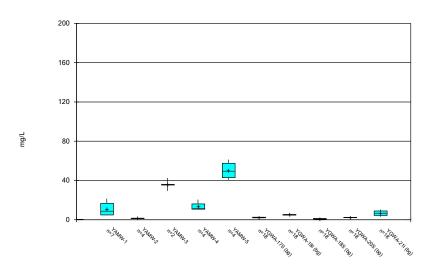
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Cadmium Analysis Run 4/19/2022 5:22 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

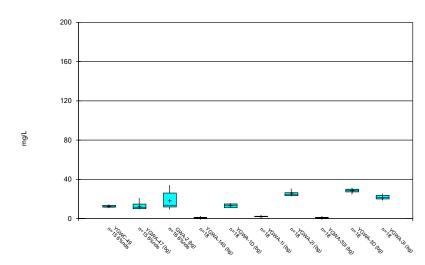
Box & Whiskers Plot



Constituent: Calcium Analysis Run 4/19/2022 5:22 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

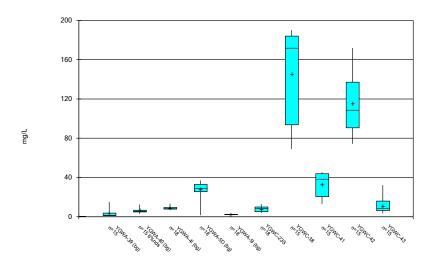
 $Sanitas^{\text{\tiny{TM}}} \ v.9.6.32j \ Groundwater \ Stats \ Consulting. \ UG$ 

Box & Whiskers Plot



Constituent: Calcium Analysis Run 4/19/2022 5:22 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

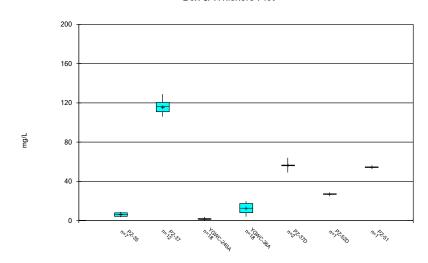
Box & Whiskers Plot



Constituent: Calcium Analysis Run 4/19/2022 5:22 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

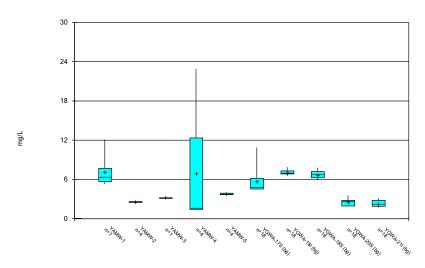
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Calcium Analysis Run 4/19/2022 5:22 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

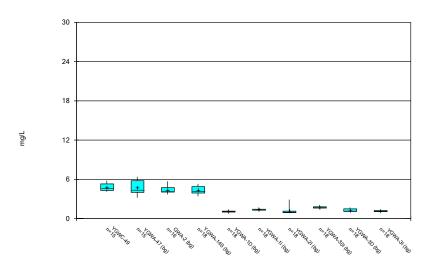
Box & Whiskers Plot



Constituent: Chloride Analysis Run 4/19/2022 5:22 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

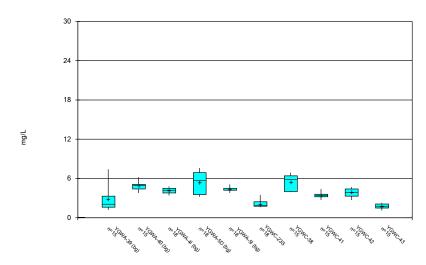
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Box & Whiskers Plot



Constituent: Chloride Analysis Run 4/19/2022 5:22 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

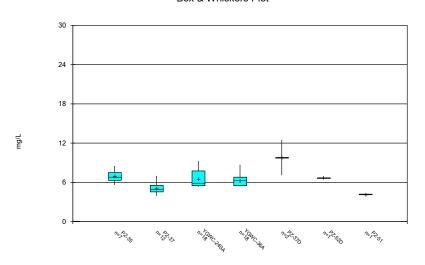
Box & Whiskers Plot



Constituent: Chloride Analysis Run 4/19/2022 5:22 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

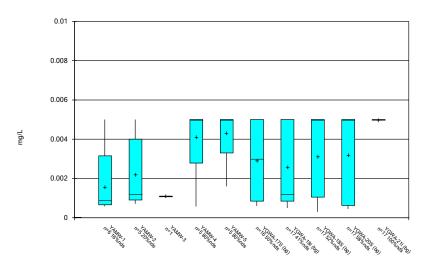
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Chloride Analysis Run 4/19/2022 5:22 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

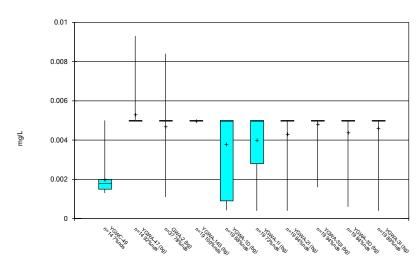
Box & Whiskers Plot



Constituent: Chromium Analysis Run 4/19/2022 5:22 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

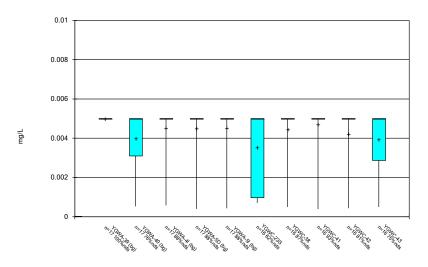
Box & Whiskers Plot



Constituent: Chromium Analysis Run 4/19/2022 5:22 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

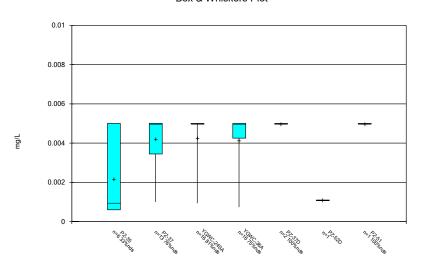
Box & Whiskers Plot



Constituent: Chromium Analysis Run 4/19/2022 5:22 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

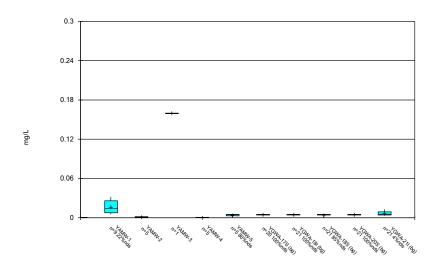
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Chromium Analysis Run 4/19/2022 5:22 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



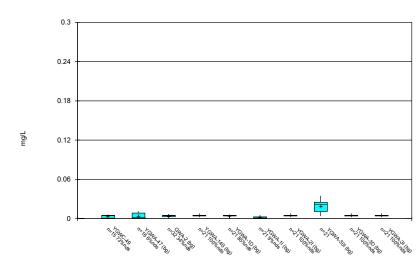


Constituent: Cobalt Analysis Run 4/19/2022 5:22 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

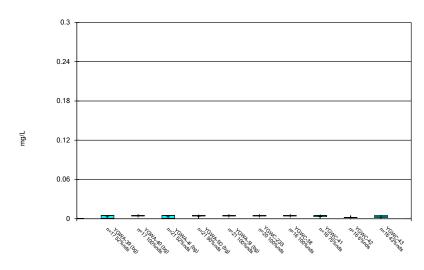




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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

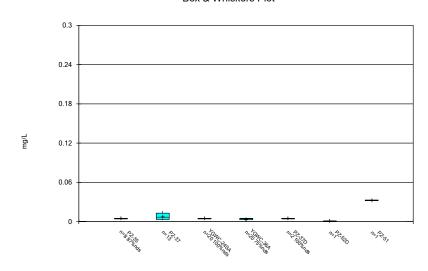
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 4/19/2022 5:22 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

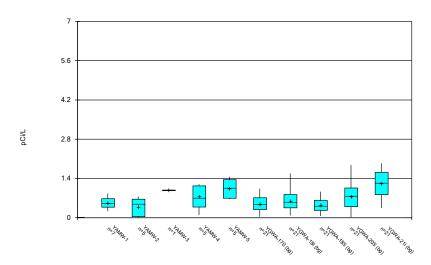
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Cobalt Analysis Run 4/19/2022 5:22 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

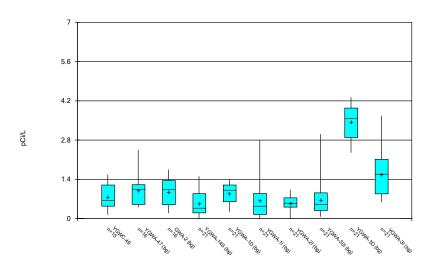
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 4/19/2022 5:22 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

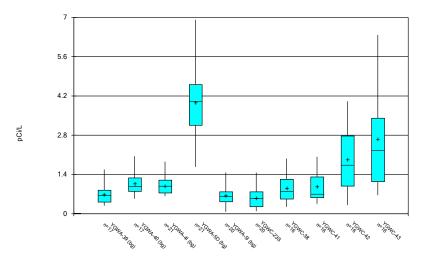
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 4/19/2022 5:22 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

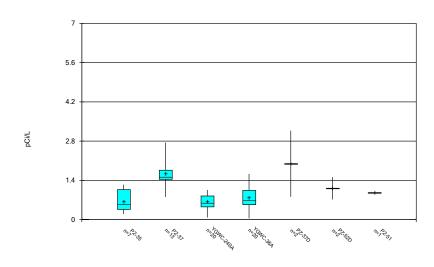
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 4/19/2022 5:22 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

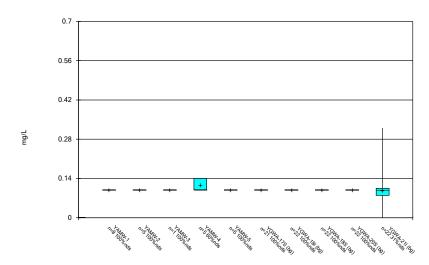
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 4/19/2022 5:22 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

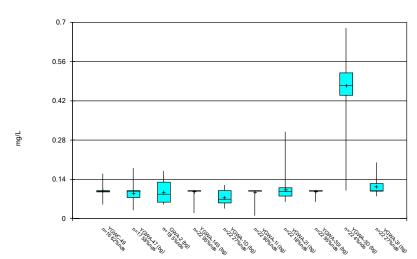
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 4/19/2022 5:22 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

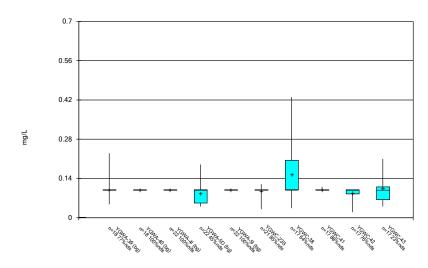
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 4/19/2022 5:22 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

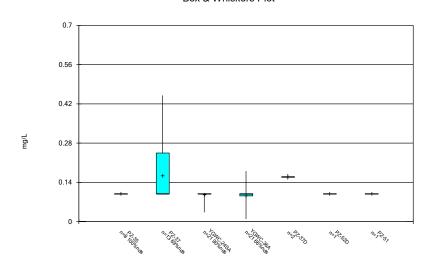
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 4/19/2022 5:22 PM
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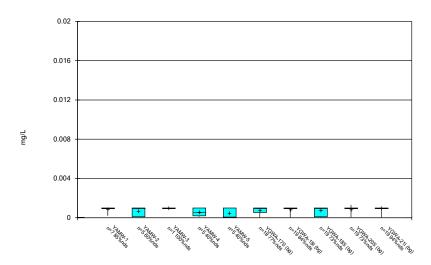
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



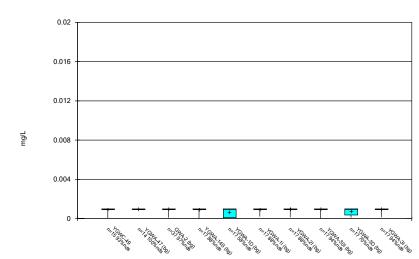
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6





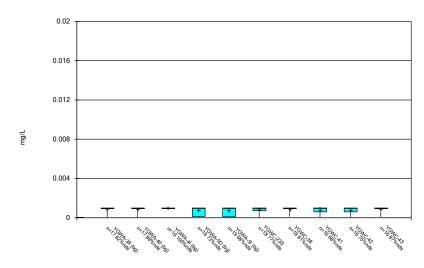
Constituent: Lead Analysis Run 4/19/2022 5:22 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



Constituent: Lead Analysis Run 4/19/2022 5:22 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

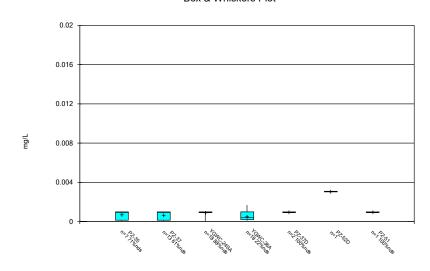
Box & Whiskers Plot



Constituent: Lead Analysis Run 4/19/2022 5:22 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

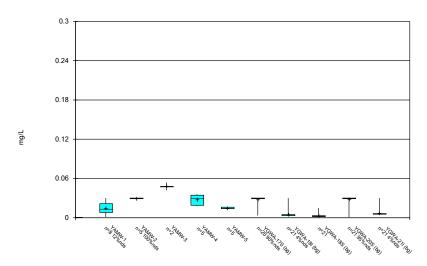
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



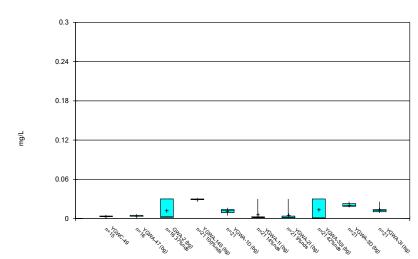
Constituent: Lead Analysis Run 4/19/2022 5:22 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6





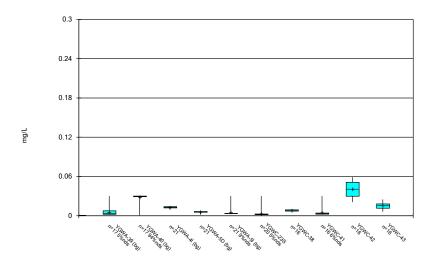
Constituent: Lithium Analysis Run 4/19/2022 5:22 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



Constituent: Lithium Analysis Run 4/19/2022 5:22 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

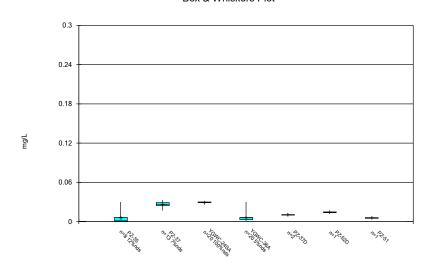
Box & Whiskers Plot



Constituent: Lithium Analysis Run 4/19/2022 5:22 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

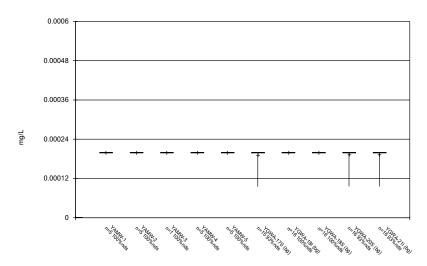
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Lithium Analysis Run 4/19/2022 5:23 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

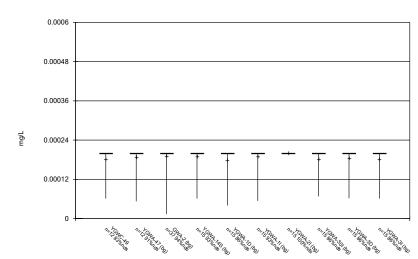
Box & Whiskers Plot



Constituent: Mercury Analysis Run 4/19/2022 5:23 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

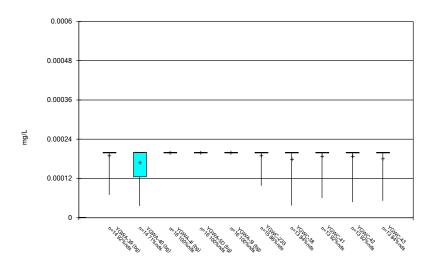
Box & Whiskers Plot



Constituent: Mercury Analysis Run 4/19/2022 5:23 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

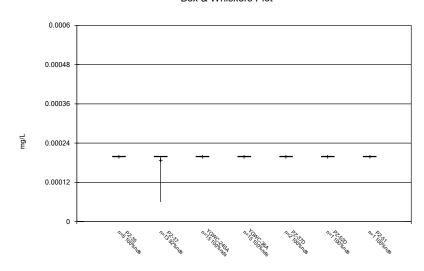
Box & Whiskers Plot



Constituent: Mercury Analysis Run 4/19/2022 5:23 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

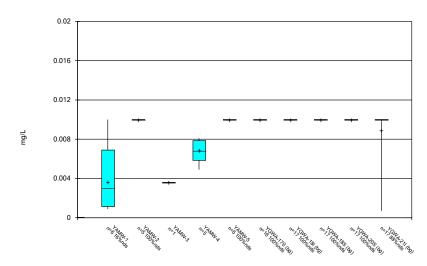
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Mercury Analysis Run 4/19/2022 5:23 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

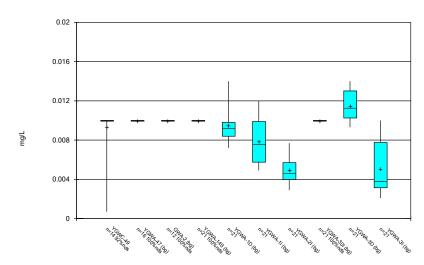
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 4/19/2022 5:23 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

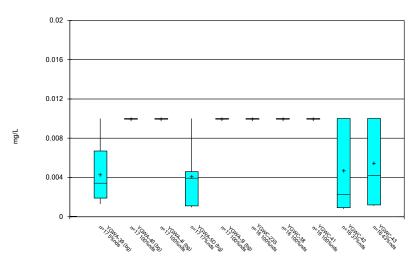
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 4/19/2022 5:23 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

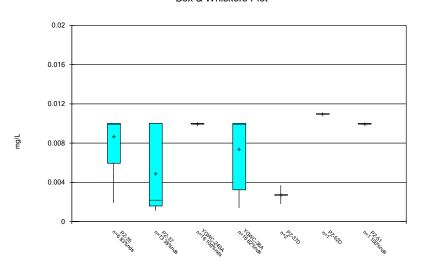
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 4/19/2022 5:23 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

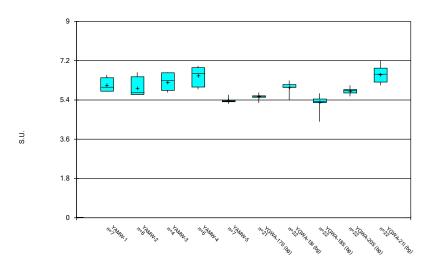
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 4/19/2022 5:23 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot

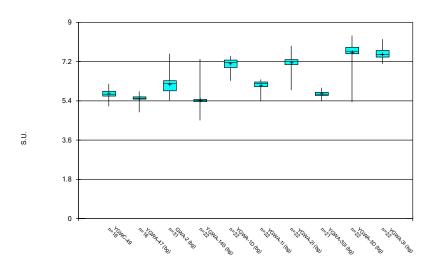


Constituent: pH Analysis Run 4/19/2022 5:23 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

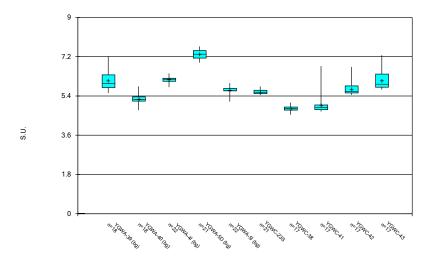
Box & Whiskers Plot



Constituent: pH Analysis Run 4/19/2022 5:23 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

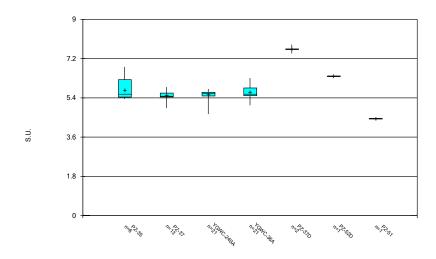
Box & Whiskers Plot



Constituent: pH Analysis Run 4/19/2022 5:23 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

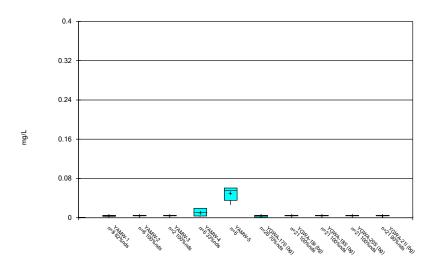
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



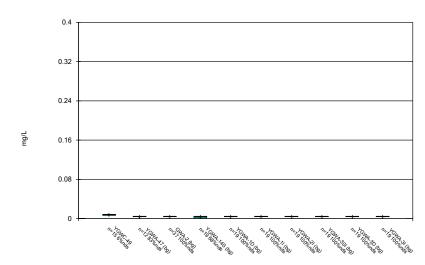
Constituent: pH Analysis Run 4/19/2022 5:23 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6





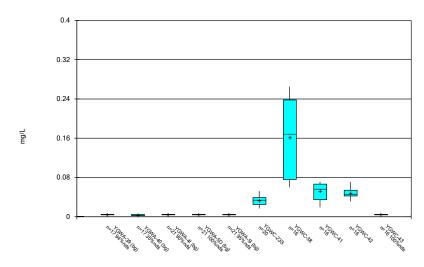
Constituent: Selenium Analysis Run 4/19/2022 5:23 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



Constituent: Selenium Analysis Run 4/19/2022 5:23 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

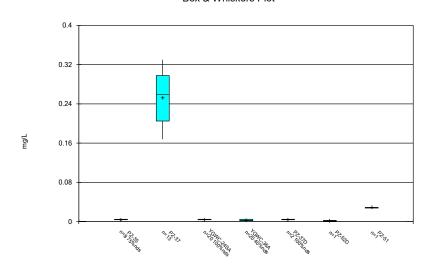
Box & Whiskers Plot



Constituent: Selenium Analysis Run 4/19/2022 5:23 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

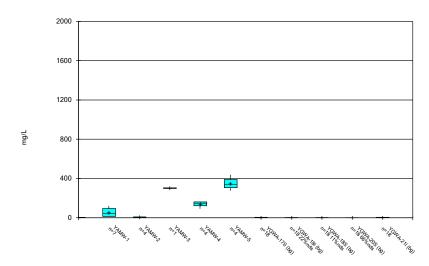
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



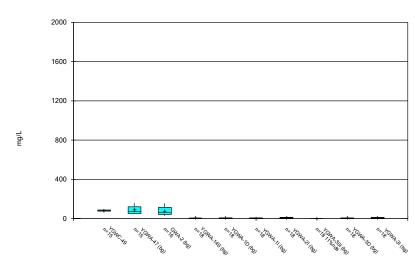
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6





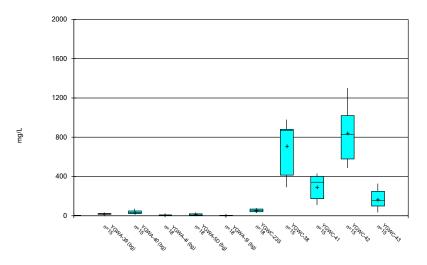
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



Constituent: Sulfate Analysis Run 4/19/2022 5:23 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

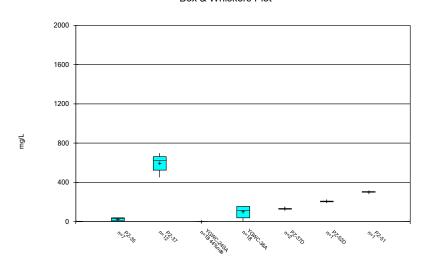
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 4/19/2022 5:23 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

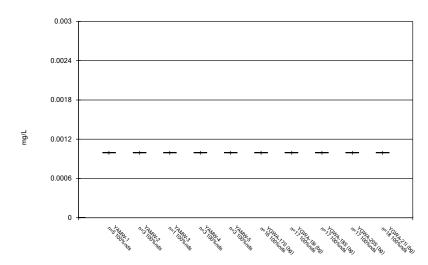
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Sulfate Analysis Run 4/19/2022 5:23 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

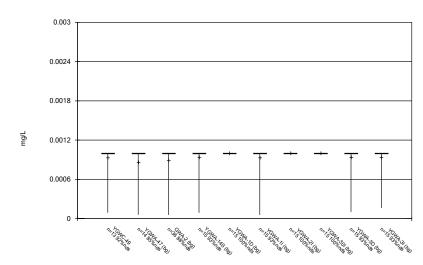
Box & Whiskers Plot



Constituent: Thallium Analysis Run 4/19/2022 5:23 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

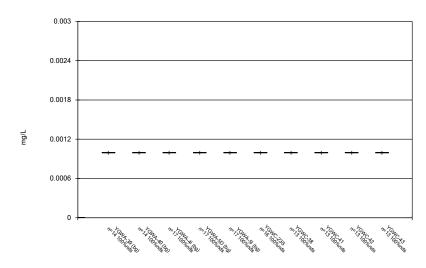
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Thallium Analysis Run 4/19/2022 5:23 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

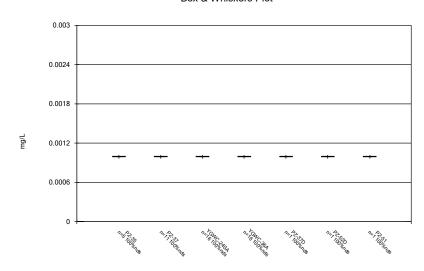
Box & Whiskers Plot



Constituent: Thallium Analysis Run 4/19/2022 5:23 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

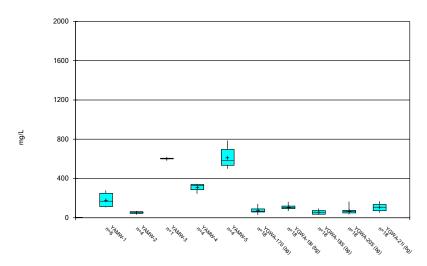
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Thallium Analysis Run 4/19/2022 5:23 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

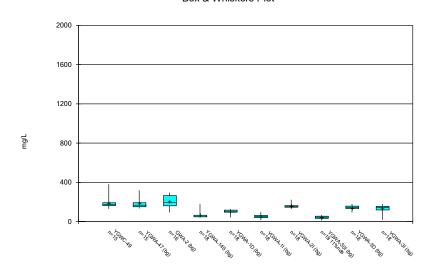
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 4/19/2022 5:23 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

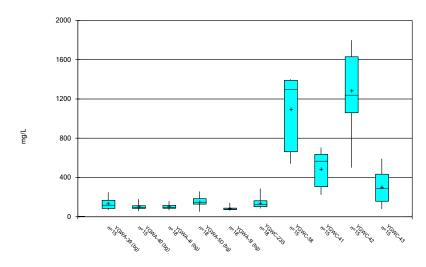
Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 4/19/2022 5:23 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

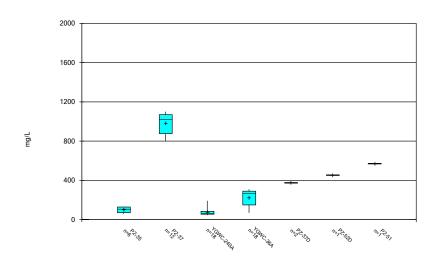
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 4/19/2022 5:23 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 4/19/2022 5:23 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

# FIGURE C.

# **Outlier Summary**

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/19/2022, 5:24 PM

GWA-2 Cobalt (mg/L) YGWA-47 pH (S.U.)

4/2/2018 6.3 (O)

8/26/2020 0.2 (O) 9/22/2020 0.16 (O) 3/2/2021 0.21 (O) 8/20/2021 0.074 (O) 2/8/2022 0.072 (o)

# FIGURE D.

### Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 3/28/2022, 5:48 PM Constituent Well Upper Lim. Lower Lim.Date Observ. Sig. Bg N Bg Mean Std. Dev. %NDs ND Adj. Transform Alpha Method Boron (mg/L) YGWC-23S 0.16 n/a 2/10/2022 1.5 Yes 331 n/a n/a 48.04 n/a n/a 0.00004917 NP Inter (normality) 1 of 2 YGWC-38 2/10/2022 5.4 Yes 331 n/a 48.04 n/a Boron (mg/L) 0.16 0.00004917 NP Inter (normality) 1 of 2 n/a n/a n/a YGWC-41 2/8/2022 4 Yes 331 n/a n/a 48.04 n/a Boron (mg/L) 0.16 n/a 0.00004917 NP Inter (normality) 1 of 2 n/a Boron (ma/L) YGWC-42 0.16 n/a 2/10/2022 14.4 Yes 331 n/a 48.04 n/a n/a 0.00004917 NP Inter (normality) 1 of 2 n/a 2/8/2022 2.3 Boron (mg/L) YGWC-43 0.16 n/a Yes 331 n/a n/a 48.04 n/a n/a 0.00004917 NP Inter (normality) 1 of 2 YGWC-38 2/10/2022 68.9 Yes 331 n/a 0.9063 n/a 0.00004917 NP Inter (normality) 1 of 2 Calcium (mg/L) 37 n/a n/a n/a Calcium (mg/L) YGWC-42 2/10/2022 74.4 Yes 331 n/a 0.9063 n/a 0.00004917 NP Inter (normality) 1 of 2 n/a n/a n/a Sulfate (mg/L) YGWC-38 160 2/10/2022 290 Yes 331 n/a 6.042 n/a 0.00004917 NP Inter (normality) 1 of 2 Sulfate (mg/L) YGWC-42 160 n/a 2/10/2022 485 Yes 331 n/a n/a 6.042 n/a n/a 0.00004917 NP Inter (normality) 1 of 2 2/10/2022 541 223.8 Total Dissolved Solids (mg/L) YGWC-38 n/a Yes 331 10.06 2.585 0.6042 None sqrt(x) 0.0009403 Param Inter 1 of 2 223.8 2/8/2022 226 Total Dissolved Solids (mg/L) YGWC-41 Yes 331 10.06 2.585 0.6042 None 0.0009403 n/a sqrt(x) Param Inter 1 of 2 Total Dissolved Solids (mg/L) YGWC-42 223.8 n/a 2/10/2022 882 Yes 331 10.06 2.585 0.6042 None 0.0009403 Param Inter 1 of 2 sqrt(x) Total Dissolved Solids (mg/L) YGWC-43 223.8 2/8/2022 294 Yes 331 10.06 2.585 0.6042 None 0.0009403 Param Inter 1 of 2 n/a sqrt(x)

# Interwell Prediction Limits - All Results

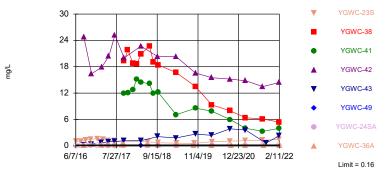
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 3/28/2022, 5:48 PM

Constituent	<u>Well</u>	Upper Lir	m. Lower L	im.Date	Observ.	Sig. Bg N B	3g Mean	Std. Dev.	%NDs	ND Adj.	Transform	n <u>Alpha</u>	<u>Method</u>
Boron (mg/L)	YGWC-23S	0.16	n/a	2/10/2022	1.5	Yes 331 n/	n/a	n/a	48.04	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-38	0.16	n/a	2/10/2022	5.4	Yes 331 n/	n/a	n/a	48.04	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-41	0.16	n/a	2/8/2022	4	Yes 331 n/	n/a	n/a	48.04	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-42	0.16	n/a	2/10/2022	14.4	Yes 331 n/	n/a	n/a	48.04	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-43	0.16	n/a	2/8/2022	2.3	Yes 331 n/	n/a	n/a	48.04	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-49	0.16	n/a	2/8/2022	0.04ND	No 331 n/	n/a	n/a	48.04	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-24SA	0.16	n/a	2/10/2022	0.04ND	No 331 n/	n/a	n/a	48.04	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-36A	0.16	n/a	2/11/2022	0.019J	No 331 n/	n/a	n/a	48.04	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-23S	37	n/a	2/10/2022	11.8	No 331 n/	n/a	n/a	0.9063	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-38	37	n/a	2/10/2022	68.9	Yes 331 n/	n/a	n/a	0.9063	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-41	37	n/a	2/8/2022	15	No 331 n/	n/a	n/a	0.9063	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-42	37	n/a	2/10/2022	74.4	Yes 331 n/	n/a	n/a	0.9063	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-43	37	n/a	2/8/2022	9.9	No 331 n/	n/a	n/a	0.9063	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-49	37	n/a	2/8/2022	12.7	No 331 n/	n/a	n/a	0.9063	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-24SA	37	n/a	2/10/2022	2.2	No 331 n/	n/a	n/a	0.9063	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-36A	37	n/a	2/11/2022	4.6	No 331 n/	n/a	n/a	0.9063	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-23S	10.9	n/a	2/10/2022	1.9	No 331 n/	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-38	10.9	n/a	2/10/2022	4	No 331 n/	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-41	10.9	n/a	2/8/2022	3.5	No 331 n/	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-42	10.9	n/a	2/10/2022	3.3	No 331 n/	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-43	10.9	n/a	2/8/2022	2.1	No 331 n/	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-49	10.9	n/a	2/8/2022	4.2	No 331 n/	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-24SA	10.9	n/a	2/10/2022		No 331 n/		n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-36A	10.9	n/a	2/11/2022		No 331 n/		n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Fluoride (mg/L)	YGWC-23S	0.68	n/a	2/10/2022		No 400 n/		n/a	67.5	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-38	0.68	n/a	2/10/2022		No 400 n/		n/a	67.5	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-41	0.68	n/a	2/8/2022	0.1ND	No 400 n/		n/a	67.5	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-42	0.68	n/a	2/10/2022		No 400 n/		n/a	67.5	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-43	0.68	n/a	2/8/2022	0.066J	No 400 n/		n/a	67.5	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-49	0.68	n/a	2/8/2022	0.1ND	No 400 n/		n/a	67.5	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-24SA YGWC-36A	0.68	n/a	2/10/2022		No 400 n/ No 400 n/		n/a	67.5	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-36A YGWC-23S	0.68	n/a	2/11/2022 2/10/2022				n/a	67.5 0	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
pH (S.U.)	YGWC-235	8.39 8.39	4.4 4.4	2/10/2022		No 410 n/ No 410 n/		n/a n/a	0	n/a n/a	n/a n/a	0.00009834 0.00009834	NP Inter (normality) 1 of 2  NP Inter (normality) 1 of 2
pH (S.U.) pH (S.U.)	YGWC-36	8.39	4.4	2/8/2022	5.07	No 410 n/		n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-42	8.39	4.4	2/10/2022		No 410 n/		n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-43	8.39	4.4	2/8/2022	5.82	No 410 n/		n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-49	8.39	4.4	2/8/2022	5.79	No 410 n/		n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-24SA	8.39	4.4	2/10/2022		No 410 n/		n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-36A	8.39	4.4	2/11/2022		No 410 n/		n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-23S	160	n/a	2/10/2022		No 331 n/	n/a	n/a	6.042	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-38	160	n/a	2/10/2022	290	Yes 331 n/	n/a	n/a	6.042	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-41	160	n/a	2/8/2022	109	No 331 n/	n/a	n/a	6.042	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-42	160	n/a	2/10/2022		Yes 331 n/		n/a	6.042		n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-43	160	n/a	2/8/2022	133	No 331 n/		n/a	6.042		n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-49	160	n/a	2/8/2022	73.9	No 331 n/	n/a	n/a	6.042	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-24SA	160	n/a	2/10/2022	0.5ND	No 331 n/		n/a	6.042		n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-36A	160	n/a	2/11/2022	16.4	No 331 n/	n/a	n/a	6.042	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-23S	223.8	n/a	2/10/2022	180	No 331 10	10.06	2.585	0.6042	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-38	223.8	n/a	2/10/2022	541	Yes 331 10	10.06	2.585	0.6042	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-41	223.8	n/a	2/8/2022	226	Yes 331 10	10.06	2.585	0.6042	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-42	223.8	n/a	2/10/2022	882	Yes 331 10	10.06	2.585	0.6042	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-43	223.8	n/a	2/8/2022	294	Yes 331 10	10.06	2.585	0.6042	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-49	223.8	n/a	2/8/2022	164	No 331 10	10.06	2.585	0.6042	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-24SA	223.8	n/a	2/10/2022	78	No 331 10		2.585	0.6042	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-36A	223.8	n/a	2/11/2022	81	No 331 10	10.06	2.585	0.6042	None	sqrt(x)	0.0009403	Param Inter 1 of 2

Sanitas™ v.9.6.32g 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

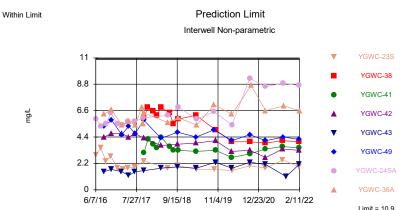


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 331 background values. 48.04% NDs. Annual perconstituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

Constituent: Boron Analysis Run 3/28/2022 5:46 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

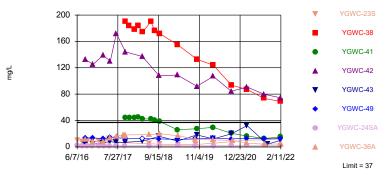


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 331 background values. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

Exceeds Limit: YGWC-38, YGWC-42

# Prediction Limit Interwell Non-parametric

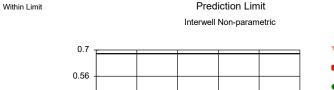


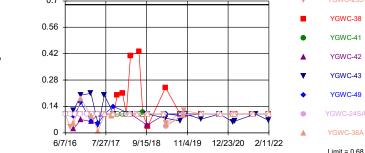
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 331 background values. 0.9063% NDs. Annual perconstituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

Constituent: Calcium Analysis Run 3/28/2022 5:46 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

 $\label{eq:Sanitas} \textbf{Sanitas}^{\text{\tiny{IM}}} \, v.9.6.32g \,\, Groundwater \,\, \textbf{Stats Consulting. UG} \\ \textbf{Hollow symbols indicate censored values}.$ 

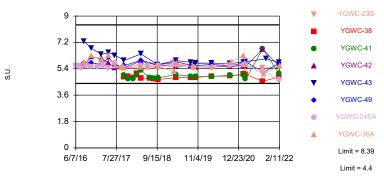




Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 400 background values. 67.5% NDs. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

Within Limits

Prediction Limit
Interwell Non-parametric



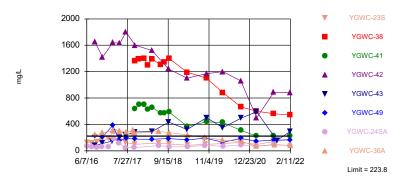
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 410 background values. Annual perconstituent alpha = 0.001573. Individual comparison alpha = 0.00009834 (1 of 2). Comparing 8 points to limit.

Constituent: pH Analysis Run 3/28/2022 5:46 PM View: Appendix III
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

Exceeds Limit: YGWC-38, YGWC-41, YGWC-42, YGWC-43

Prediction Limit
Interwell Parametric

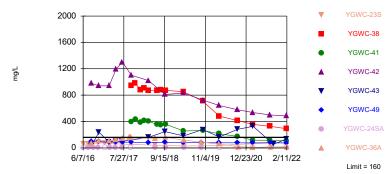


Background Data Summary (based on square root transformation): Mean=10.06, Std. Dev.=2.585, n=331, 0.6042% NDs. Normality test: Chi Squared @alpha = 0.01, calculated = 13.86, critical = 14.07. Kappa = 1.894 (c=7, w=8, 1 of 2, event alpha = 0.05132). N exceeds UG tables; Kappa based on n=150. Report alpha = 0.007498. Individual comparison alpha = 0.0009403. Comparing 8 points to limit.

Constituent: Total Dissolved Solids Analysis Run 3/28/2022 5:46 PM View: Appendix III
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g 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 331 background values. 6.042% 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-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-5I (bg)
6/1/2016	<0.04	<0.04	<0.04						
6/2/2016				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	<0.04	<0.04				<0.04			
7/26/2016			0.0055 (J)	0.0052 (J)	0.0097 (J)		0.0047 (J)	0.0177 (J)	<0.04
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016		<0.04	<0.04						
9/14/2016	<0.04			0.0071 (J)			<0.04		0.01 (J)
9/15/2016					0.0102 (J)			0.0214 (J)	
9/16/2016									
9/19/2016						<0.04			
9/20/2016									
11/1/2016	<0.04		0.0086 (J)		<0.04	<0.04			
11/2/2016				<0.04			<0.04	<0.04	
11/3/2016									
11/4/2016		<0.04							<0.04
11/8/2016									
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017								0.0198 (J)	
1/11/2017	<0.04		0.0074 (J)		<0.04				
1/12/2017				0.0076 (J)					<0.04
1/13/2017							<0.04		
1/16/2017		<0.04				<0.04			
1/17/2017									
2/21/2017						<0.04			
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017	<0.04								
3/2/2017		<0.04	0.008 (J)		0.0084 (J)				
3/3/2017									
3/6/2017							<0.04		
3/7/2017				0.0089 (J)					<0.04
3/8/2017								0.0189 (J)	
3/9/2017								•	
4/26/2017	<0.04				<0.04	<0.04		0.0161 (J)	
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-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-5I (bg)
5/2/2017									<0.04
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		0.006 (J)	0.0087 (J)	0.0079 (J)					<0.04
6/28/2017	<0.04	. ,	` '	. ,	<0.04				
6/29/2017	-0.04				-0.04		<0.04		
						-0.04	<0.04	0.0470 (1)	
6/30/2017						<0.04		0.0173 (J)	
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017		0.0071 (J)	0.0072 (J)	0.0094 (J)					<0.04
10/4/2017	<0.04	( )	` '	. ,	<0.04	<0.04			
10/5/2017	0.01				0.01	0.01	<0.04	0.0173 (J)	
							<b>\0.04</b>	0.0173 (3)	
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018			0.0052 (J)						
6/6/2018		<0.04		0.0098 (J)					
6/7/2018					0.004 (J)		0.0045 (J)		<0.04
6/8/2018	<0.04							0.013 (J)	
6/11/2018						0.014 (J)			
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									
9/25/2018									
9/26/2018				0.01 (J)			0.005 (J)		0.0057 (J)
9/27/2018									
10/1/2018	<0.04	0.0049 (J)	0.021 (J)		<0.04			0.015 (J)	

10/0/0010	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-5I (bg)
10/2/2018 2/25/2019						<0.04			
3/26/2019									
3/27/2019		-0.04	0.005 (1)						
3/28/2019		<0.04	0.005 (J)					0.014 ( 1)	
3/29/2019	-0.04				-0.04	-0.04		0.014 (J)	
4/1/2019	<0.04				<0.04	<0.04			
4/2/2019				0.0070 (1)			0.0055 (1)		0.004471)
4/3/2019				0.0076 (J)			0.0055 (J)		0.0044 (J)
4/4/2019									
6/12/2019		0.0055 (1)	0.006471)	0.01 (1)					0.0040 (1)
9/24/2019 9/25/2019	<0.04	0.0055 (J)	0.0064 (J)	0.01 (J)	0.005471)	<0.04	<0.04	0.018 (J)	0.0049 (J)
9/26/2019	<b>\0.04</b>				0.0054 (J)	<0.04	<0.04	0.018 (3)	
9/27/2019									
10/8/2019									
10/8/2019									
3/17/2020									
3/18/2020		0.0087 (J)						0.02 (J)	
3/19/2020	0.0053 (J)	0.0087 (3)	0.0085 (J)		0.0073 (J)	0.0052 (J)		0.02 (3)	
3/24/2020	0.0055 (5)		0.0003 (3)	0.011 (J)	0.0073 (3)	0.0032 (0)			0.0068 (J)
3/25/2020				0.011 (0)			0.011 (J)		0.0000 (0)
3/26/2020							0.011(0)		
9/22/2020				0.0079 (J)			<0.04		0.0053 (J)
9/23/2020	0.0073 (J)	<0.04	<0.04	0.0070 (0)	0.012 (J)		0.01		0.0000 (0)
9/24/2020					(5)	0.0075 (J)			
9/25/2020								0.02 (J)	
10/7/2020								.,	
3/1/2021						<0.04			
3/2/2021				0.0068 (J)				0.017 (J)	0.011 (J)
3/3/2021	<0.04	<0.04	<0.04		<0.04		0.0056 (J)	, ,	.,
3/4/2021									
8/19/2021		<0.04	<0.04		<0.04	<0.04		0.018 (J)	
8/20/2021									
8/25/2021									
8/26/2021				0.009 (J)			<0.04		<0.04
8/27/2021	<0.04								
9/1/2021									
9/3/2021									
9/27/2021									
2/8/2022									
2/9/2022	<0.04	<0.04	<0.04		0.01 (J)				
2/10/2022				0.011 (J)				0.02 (J)	<0.04
2/11/2022						<0.04	<0.04		

		YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SA	YGWA-47 (bg)	YGWC-42
6/1/20	016									
6/2/20	016									
6/6/20	016	<0.04	<0.04							
6/7/20	)16			<0.04	<0.04	<0.04	0.99			
6/8/20								<0.04		
7/25/2										
7/26/2										
7/27/2		<0.04	0.0059 (J)	0.008 (J)	<0.04					
		<b>\0.04</b>	0.0039 (3)	0.008 (3)	<b>~0.04</b>	-0.04	1.00			
7/28/2						<0.04	1.09	.0.04		
8/1/20								<0.04		
8/30/2									0.0166 (J)	24.7
8/31/2										
9/1/20										
9/2/20										
9/13/2	2016									
9/14/2	2016									
9/15/2	2016									
9/16/2	2016		0.0079 (J)	0.0086 (J)						
9/19/2	2016	<0.04			<0.04	<0.04				
9/20/2	2016						1.35	<0.04		
11/1/2	2016									
11/2/2	2016				<0.04					
11/3/2	2016	<0.04	0.0082 (J)	0.0077 (J)		<0.04				
11/4/2	2016									
11/8/2	2016						1.5	<0.04		
11/14									0.0166 (J)	
11/15									( )	
11/16										16.4
11/28										
12/15										
1/10/2										
1/11/2		<0.04	0.0096 (J)	0.0092 (J)						
1/12/2		10.04	0.0000 (0)	0.0032 (3)						
1/13/2					<0.04	<0.04				
1/16/2					<b>~0.04</b>	<b>~0.04</b>	1.67			
							1.07	-0.04		
1/17/2								<0.04		
2/21/2										
2/22/2									0.0145 (1)	
2/24/2									0.0145 (J)	4=0
2/27/2										17.9
2/28/2										
3/1/20		<0.04	<0.04							
3/2/20				0.0095 (J)						
3/3/20										
3/6/20					<0.04	<0.04				
3/7/20										
3/8/20	017							<0.04		
3/9/20	)17						1.44			
4/26/2	2017	<0.04	0.0091 (J)		<0.04	<0.04				
4/27/2	2017									
4/28/2	2017									
5/1/20	)17									

	_	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SA	YGWA-47 (bg)	YGWC-42
5/2/2017				<0.04			1.2	0.0099 (J)		
5/8/2017									0.0141 (J)	
5/9/2017										
5/10/201										20.4
5/26/201										
6/27/201	17									
6/28/201	17	<0.04	0.0079 (J)							
6/29/201	17			0.0074 (J)	<0.04	<0.04				
6/30/201	17									
7/7/2017	7							0.0076 (J)		
7/10/201	17						1.12			
7/11/201	17								0.0131 (J)	25.2
7/13/201	17									
7/17/201	17									
9/22/201										
9/29/201										
10/3/201						<0.04				
10/4/201			0.009 (J)	0.0077 (J)	<0.04					
10/5/201		<0.04	0.000 (0)	0.0077 (0)	0.01			<0.04		
10/6/201		10.04						10.04		
10/10/20									0.0124 (J)	
10/11/20							1.00		0.0124 (3)	
							1.09			00
10/12/20										20
10/16/20										
11/20/20										
11/21/20										
1/10/201										
1/11/201										
1/12/201	18									
2/19/201	18									
2/20/201	18									
4/2/2018	3								0.013 (J)	
4/3/2018	3									
4/4/2018	3									22.7
6/5/2018	3					0.0092 (J)				
6/6/2018	3				0.0049 (J)					
6/7/2018	3	<0.04								
6/8/2018	3									
6/11/201	18		0.0093 (J)	0.01 (J)						
6/12/201	18						0.9	0.018 (J)		
6/13/201										
6/27/201										
6/28/201										
8/6/2018										
8/7/2018										
9/19/201									0.012 (J)	
9/20/201									5.012 (0)	20.3
9/24/201										20.0
		0.0046 ( !)	0.007 (1)	0.0006 (1)	<0.04	0.0054 ( !)				
9/25/201		0.0046 (J)	0.007 (J)	0.0096 (J)	<0.04	0.0054 (J)		0.0055 ( 1)		
9/26/201							0.71	0.0055 (J)		
9/27/201							0.71			
10/1/201	ıø									

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SA	YGWA-47 (bg)	YGWC-42
10/2/2018									
2/25/2019									
3/26/2019									
3/27/2019								0.013 (J)	20.3
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			0.0066 (J)		0.011 (J)				
4/3/2019	<0.04	0.0053 (J)		<0.04					
4/4/2019						0.6	<0.04		
6/12/2019									
9/24/2019					0.018 (J)				
9/25/2019			0.0081 (J)	<0.04					
9/26/2019	0.0062 (J)	0.0072 (J)					0.0068 (J)		
9/27/2019						0.58			
10/8/2019								0.012 (J)	
10/9/2019									16.6
3/17/2020								0.023 (J)	
3/18/2020									
3/19/2020									
3/24/2020	0.0054 (J)	0.01 (J)	0.0092 (J)	<0.04	0.016 (J)				
3/25/2020									15.5
3/26/2020						0.94	0.033 (J)		
9/22/2020								0.0076 (J)	
9/23/2020	0.021 (J)	0.006 (J)	0.0066 (J)				<0.04		
9/24/2020				0.0094 (J)	0.013 (J)	1.1			15.2
9/25/2020									
10/7/2020									
3/1/2021								0.013 (J)	
3/2/2021									
3/3/2021	<0.04	0.0094 (J)	0.01 (J)	<0.04			<0.04		
3/4/2021					0.0079 (J)	1.2			14.8
8/19/2021								0.011 (J)	
8/20/2021									
8/25/2021						1.3			13.5
8/26/2021		<0.04							
8/27/2021	<0.04		0.011 (J)	<0.04					
9/1/2021					<0.04		<0.04		
9/3/2021									
9/27/2021									
2/8/2022								0.015 (J)	
2/9/2022	<0.04	<0.04	0.0098 (J)	<0.04	<0.04			\-/	
2/10/2022	•		\-/-/		•	1.5	<0.04		14.4
2/11/2022						-			·

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016									
7/26/2016									
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016	0.169	0.0315 (J)							
9/1/2016			0.0113 (J)						
9/2/2016				0.133					
9/13/2016									
9/14/2016					<0.04				
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016					<0.04				
11/8/2016									
11/14/2016				0.287					
11/15/2016			0.0074 (J)						
11/16/2016	0.406								
11/28/2016		0.0095 (J)							
12/15/2016		(,,			0.0107 (J)				
1/10/2017					(0)				
1/11/2017									
1/12/2017									
1/13/2017									
1/16/2017					<0.04				
1/17/2017					10.04				
2/21/2017									
2/22/2017		<0.04							
2/24/2017	0.725	<b>~0.04</b>							
	0.723		<0.04						
2/27/2017			<0.04	0.015					
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									

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
5/2/2017		2 = (29)			(-9)	(-9)	(-3)		
5/8/2017		0.0084 (J)							
5/9/2017			<0.04	0.233					
5/10/2017	0.955		0.01	0.200					
5/26/2017	0.000				<0.04				
6/27/2017					10.04				
6/28/2017					<0.04				
6/29/2017					<b>~0.04</b>				
6/30/2017									
7/7/2017									
7/10/2017									
7/10/2017	0.994								
7/11/2017	0.994		0.0093 (J)	0.262					
7/17/2017		0.0092 (J)	0.0093 (3)	0.202					
		0.0092 (3)		0.220					
9/22/2017				0.238					
9/29/2017				0.235	<b>~0.04</b>				
10/3/2017					<0.04				
10/4/2017									
10/5/2017				0.050					
10/6/2017				0.256					
10/10/2017				0.045		0.0405 (1)			
10/11/2017			<0.04	0.245		0.0135 (J)			
10/12/2017	1.15						0.0401	19.3	12
10/16/2017		<0.04							
11/20/2017						0.0251 (J)	0.156	21.8	
11/21/2017							0.45		12.1
1/10/2018							0.15		
1/11/2018						0.0255 (J)			12.8
1/12/2018								18.7	
2/19/2018		<0.04				.0.04	0.146	10.0	15.2
2/20/2018						<0.04		18.6	
4/2/2018									
4/3/2018						0.033 (J)	0.12	20.9	14.5
4/4/2018	1.2		0.0041 (J)						
6/5/2018									
6/6/2018									
6/7/2018					<0.04				
6/8/2018									
6/11/2018									
6/12/2018				0.05					
6/13/2018				0.25					14.1
6/27/2018						0.053	0.16	22.7	14.1
6/28/2018		-0.04				0.053	0.16	22.7	
8/6/2018		<0.04				0.004 (1)	0.10	10.1	44.0
8/7/2018						0.024 (J)	0.12	19.1	11.9
9/19/2018	2.1		0.004271						
9/20/2018	2.1		0.0042 (J)			0.000 (1)	0.000	10.4	10.0
9/24/2018						0.028 (J)	0.099	18.4	12.2
9/25/2018				0.24					
9/26/2018				0.24					
9/27/2018					<0.04				
10/1/2018					<0.04				

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
10/2/2018									
2/25/2019		<0.04							
3/26/2019							0.096		
3/27/2019						0.017 (J)		16.7	
3/28/2019	1.8		<0.04						7.1
3/29/2019					0.0065 (J)				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				0.22					
6/12/2019		<0.04							
9/24/2019					0.0076 (J)				
9/25/2019									
9/26/2019			<0.04	0.13					
9/27/2019									
10/8/2019		<0.04							
10/9/2019	2.7					0.017 (J)	0.079	13.5	8.6
3/17/2020		0.0051 (J)							
3/18/2020									
3/19/2020					0.0073 (J)				
3/24/2020							0.088 (J)		
3/25/2020	2.4		0.012 (J)	0.11		0.043 (J)		9.3	7.9
3/26/2020									
9/22/2020		0.0079 (J)							
9/23/2020					<0.04				
9/24/2020			0.062 (J)			0.037 (J)	0.087 (J)		
9/25/2020	3.9							8	6
10/7/2020				0.018 (J)					
3/1/2021									
3/2/2021		<0.04							
3/3/2021					<0.04				
3/4/2021	3.6		<0.04	0.0088 (J)		0.033 (J)	0.078	6.4	4
8/19/2021									
8/20/2021		<0.04							
8/25/2021									
8/26/2021						0.095		6.1	3.3
8/27/2021					<0.04				
9/1/2021			<0.04						
9/3/2021				0.012 (J)			0.077		
9/27/2021	0.64								
2/8/2022	2.3	<0.04	<0.04			0.13	0.074		4
2/9/2022					<0.04				
2/10/2022								5.4	
2/11/2022				0.019 (J)					

				YGWA-1D (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-5I (bg)
6/1/2016	2	21	2.5	12						
6/2/2016					33	28	1.3	8.8	1.3	2.4
6/6/2016										
6/7/2016										
6/8/2016										
7/25/2016	5 2	20.3	2.16				1.17			
7/26/2016	6			11	32.3	24.5		7.69	1.24	2.12
7/27/2016	6									
7/28/2016	6									
8/1/2016										
8/30/2016	6									
8/31/2016										
9/1/2016										
9/2/2016										
9/13/2016	;		2.21	11.8						
9/14/2016		9.7			31			8.49		2.18
9/15/2016						27		0.40	1.17	2.10
9/16/2016						27			1.17	
9/19/2016							1.05			
							1.05			
9/20/2016		0.4		44		05.0	4.44			
11/1/2016		8.4		11	00.0	25.6	1.14	7.00	1.00	
11/2/2016					30.9			7.83	1.23	
11/3/2016										2.47.40
11/4/2016			2.67							2.17 (J)
11/8/2016										
11/14/201										
11/15/201										
11/16/201										
11/28/201										
12/15/201										
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	7									
2/21/2017							1.25			
2/22/2017										
2/24/2017	7									
2/27/2017	7									
2/28/2017	7									
3/1/2017	1	8.6								
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	, 2	25.6				30.4	1.03		1.14	
4/27/2017	7		2.38	11.1						
4/28/2017	7									
5/1/2017					37			13.4		

		YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-5I (bg)
5/2/2017										2.17
5/8/2017										
5/9/2017										
5/10/201										
5/26/201										
			0.00	10.0	00.5					0.40
6/27/201			2.36	13.8	36.5					2.13
6/28/201	7	23.9				29.8				
6/29/201	7							8.81		
6/30/201	7						1.13		1.24	
7/7/2017										
7/10/201										
7/11/201										
7/13/201	7									
7/17/201	7									
9/22/201	7									
9/29/201										
10/3/201			2.21	14	30.9					2.15
			2.21	14	30.9					2.13
10/4/201		22.1				29.7	1.09			
10/5/201	7							9.29	1.11	
10/6/201	7									
10/10/20	17									
10/11/20	17									
10/12/20										
10/16/20										
11/20/20										
11/21/20	17									
1/10/201	8									
1/11/201	8									
1/12/201	8									
2/19/201										
2/20/201										
4/2/2018										
4/3/2018										
4/4/2018										
6/5/2018				15.2 (J)						
6/6/2018			2.3		26.2					
6/7/2018						29.1		8.2		2.3
6/8/2018		21.9 (J)							1.1	
		21.5 (0)					4.4		1.1	
6/11/201							1.1			
6/12/201										
6/13/201	8									
6/27/201	8									
6/28/201	8									
8/6/2018										
8/7/2018										
9/19/201										
9/20/201										
9/24/201										
9/25/201	8									
9/26/201	8				25.8			9.5 (J)		2.3
9/27/201	8									
10/1/201		19.7	1.8	15.1		26.9			0.99	

10/0/0010	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-5I (bg)
10/2/2018						1.1			
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019		2.2	13.3 (J)						
3/29/2019								1.1	
4/1/2019	20.4 (J)				30.1	1.3			
4/2/2019									
4/3/2019				24.7 (J)			8.4		2.8
4/4/2019									
6/12/2019									
9/24/2019		2.3	15.8	25.8					2.5
9/25/2019	22.4				29.5	1.1	9.5	1.1	
9/26/2019									
9/27/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020		2.1						1.1	
3/19/2020	21.9		15		31.5	1.2			
3/24/2020				26.1					2.5
3/25/2020							10.5		
3/26/2020									
9/22/2020				27.2			9.6		2.6
9/23/2020	23.6	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		29.8		7.7		
3/4/2021									
8/19/2021		2	14.2		28.1	1.2		1.2	
8/20/2021									
8/25/2021									
8/26/2021				25.2			7.6		2.5
8/27/2021	24.7								
9/1/2021									
9/3/2021									
9/27/2021									
2/8/2022									
2/9/2022	23.7	2.1	14.9		30.3				
2/10/2022				24.8				1.3	2.5
2/11/2022						1.5	7.5		

		YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SA	YGWA-47 (bg)	YGWC-42
6	6/1/2016		, ,	, ,	, ,,	, ,,			, ,,	
	5/2/2016									
	6/6/2016	6.2	1.4							
	6/7/2016			2.2	2.3	3.7	9.6			
	6/8/2016							1.9		
	//25/2016									
	//26/2016									
	//27/2016	4.73	1.19	2	2.08					
		4.73	1.19	2	2.00	2.15	7.07			
	7/28/2016					3.15	7.87	1.00		
	8/1/2016							1.83	20.0	100
	3/30/2016								20.9	133
	3/31/2016									
	0/1/2016									
	0/2/2016									
	9/13/2016									
	9/14/2016									
	9/15/2016									
	9/16/2016		1.5	1.97						
	)/19/2016	4.76			1.97	3.17				
	)/20/2016						9.28	1.78		
1	1/1/2016									
1	1/2/2016				2.13					
1	1/3/2016	5.25	1.31	1.99		3.4				
1	1/4/2016									
1	1/8/2016						8.6	1.77		
1	1/14/2016								18.6	
1	1/15/2016									
1	1/16/2016									125
1	1/28/2016									
1	2/15/2016									
1	/10/2017									
1	/11/2017	4.74	1.25	2.28						
	/12/2017									
	/13/2017				2.45	4.98				
	/16/2017						8.85			
	/17/2017							1.7		
	2/21/2017									
	2/22/2017									
	2/24/2017								16.1	
	2/27/2017									139
	2/28/2017									
	3/1/2017	5.37	1.26							
	3/2/2017	0.07	1.20	2.15						
	3/3/2017			2.10						
	8/6/2017				2.48	6.28				
	3/7/2017				2.70	5.20				
								1.77		
	8/8/2017						9.4	1.77		
	8/9/2017	4.29	1.05		2.2	6 65	8.4			
	/26/2017	4.28	1.05		2.3	6.65				
	/27/2017									
	/28/2017									
5	5/1/2017									

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SA	YGWA-47 (bg)	YGWC-42
5/2/2017			1.95			12.9	1.57		
5/8/2017								14.6	
5/9/2017									
5/10/2017									130
5/26/2017									
6/27/2017									
6/28/2017	4.95	1.06							
6/29/2017			2.02	2.54	6.04				
6/30/2017									
7/7/2017							1.8		
7/10/2017						8.09			
7/11/2017								14.3	172
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017					8.28				
10/4/2017		1.1	2.03	2.25					
10/5/2017	5.28						1.7		
10/6/2017									
10/10/2017								12.1	
10/11/2017						6.36			
10/12/2017									144
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018								<25	
4/3/2018								-20	
									107
4/4/2018					0.1				137
6/5/2018				0.0	9.1				
6/6/2018				2.3					
6/7/2018	4.8								
6/8/2018									
6/11/2018		1.4	2.1						
6/12/2018						4.7	1.8		
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018								11.1 (J)	
9/20/2018									108
9/24/2018									
9/25/2018	4.6	1	2.1	2.3	10.4 (J)				
9/26/2018							1.7		
9/27/2018						4.1			
10/1/2018									
- <del>-</del>									

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SA	YGWA-47 (bg)	YGWC-42
10/2/2018									
2/25/2019									
3/26/2019									
3/27/2019								10.8 (J)	109
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			2.5		8.8				
4/3/2019	5.3	1.2		2.9					
4/4/2019						3.7	1.9		
6/12/2019									
9/24/2019					7.7				
9/25/2019			2.6	2.4					
9/26/2019	4.9	1.1					1.7		
9/27/2019						3.7			
10/8/2019								9.7	
10/9/2019									92
3/17/2020								14.8	
3/18/2020									
3/19/2020									
3/24/2020	5.3	1	2.7	2.6	6				
3/25/2020									107
3/26/2020						5.6	1.7		
9/22/2020								10.1	
9/23/2020	5.2	0.91 (J)	2.6				2.4		
9/24/2020				2.6	7.8	7.9			84.3
9/25/2020									
10/7/2020									
3/1/2021								10.3	
3/2/2021									
3/3/2021	5.2	0.96 (J)	2.5	2.4			2.4		
3/4/2021					8.7	10.2			90.7
8/19/2021								9.6	
8/20/2021									
8/25/2021						10.6			79.9
8/26/2021		0.98 (J)							
8/27/2021	5.1		2.7	2.4					
9/1/2021					9.5		2.3		
9/3/2021									
9/27/2021									
2/8/2022								9.4	
2/9/2022	5.1	0.87 (J)	2.8	2.3	9.8				
2/10/2022						11.8	2.2		74.4
2/11/2022									

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016									
7/26/2016									
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016	3.4	9.31							
9/1/2016			13.9						
9/2/2016				11.2					
9/13/2016									
9/14/2016					23.5				
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016					23.7				
11/8/2016									
11/14/2016				7.79					
11/15/2016			13.5						
11/16/2016	3.79								
11/28/2016		9.47 (B)							
12/15/2016		. ,			23.1				
1/10/2017									
1/11/2017									
1/12/2017									
1/13/2017									
1/16/2017					23.3				
1/17/2017									
2/21/2017									
2/22/2017		10.4							
2/24/2017	6.42								
2/27/2017			12.5						
2/28/2017				8.37					
3/1/2017									
3/2/2017									
3/3/2017					25.1				
3/6/2017									
3/7/2017									
3/8/2017									
3/9/2017									
4/26/2017									
4/27/2017									
4/28/2017					30.7				
5/1/2017									

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
5/2/2017		( 0,			( 0,	( 0/	( 0,		
5/8/2017		14.2							
5/9/2017			14.4	13.9					
5/10/2017	7.9								
5/26/2017					26.2				
6/27/2017									
6/28/2017					26.1				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017	6.71								
7/13/2017	0.7.		14.1	16.6					
7/17/2017		14.1							
9/22/2017				18.4					
9/29/2017				16.1					
10/3/2017				10.1	26.7				
10/4/2017					20.7				
10/5/2017									
10/6/2017				16.6					
10/10/2017				10.0					
10/11/2017			12.4	18.1		2.74			
10/11/2017	7.05		12.4	10.1		2.74	2.9	190	44.5
10/16/2017	7.03	13.6					2.9	190	44.5
11/20/2017		13.0				1.81	10.4	184	
11/21/2017						1.01	10.4	104	44.4
1/10/2018							10.2		44.4
						1.54	10.2		42.0
1/11/2018						1.54		170	43.9
1/12/2018		-05					-05	178	45.0
2/19/2018		<25				1 71	<25	104	45.3
2/20/2018						1.71		184	
4/2/2018						1.4	6.3	174	40.7
4/3/2018	9.6		-25			1.4	6.3	174	42.7
4/4/2018 6/5/2018	8.6		<25						
6/6/2018									
6/7/2018					25				
6/8/2018					25				
6/11/2018									
6/12/2018									
6/13/2018				18.7 (J)					
6/27/2018				10.7 (3)					42.2
6/28/2018						1.4	6.7	190	72.2
8/6/2018		11.471)				1.4	0.7	190	
8/7/2018		11.4 (J)				1.2	6.3	176	40.7
9/19/2018						1.2	0.3	170	TU./
9/19/2018	15.9 ( )\		12 ( 1)						
	15.9 (J)		12 (J)			1.1	5.7	172	38.5
9/24/2018 9/25/2018						1.1	5.7	172	38.5
				10.8 ( 1)					
9/26/2018				19.8 (J)					
9/27/2018 10/1/2018					25				
10/1/2016					20				

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
10/2/2018									
2/25/2019		12.7 (J)							
3/26/2019							5.6		
3/27/2019						1.5		155	
3/28/2019	8.9		11.3 (J)						26
3/29/2019					23.5 (J)				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				16.9 (J)					
6/12/2019		18.9							
9/24/2019					26.4				
9/25/2019									
9/26/2019			12.1	11.7					
9/27/2019									
10/8/2019		28.3							
10/9/2019	18.2					2.4	4.9	133	27.6
3/17/2020		24.3							
3/18/2020									
3/19/2020					27.4				
3/24/2020							4.8		
3/25/2020	12.1		13.2	10.6		2.7		124	29.6
3/26/2020									
9/22/2020		31							
9/23/2020					26.3				
9/24/2020			12			3.7	4.4		
9/25/2020	19.8							93.7	20.5
10/7/2020				9.9					
3/1/2021									
3/2/2021		34.2							
3/3/2021					25.6				
3/4/2021	32.2		13	5.6		8.2	4.6	87	16.4
8/19/2021									
8/20/2021		26.5							
8/25/2021									
8/26/2021						14.1		73.6	12.8
8/27/2021			10.1		22.6				
9/1/2021			12.1	4.4			F.C		
9/3/2021	4.1			4.1			5.6		
9/27/2021	4.1 9.9	25.6	10.7			15.0	6		15
2/8/2022 2/9/2022	J.3	25.6	12.7		23.4	15.2	6		15
2/10/2022					20.4			68.9	
2/10/2022				4.6				00.3	
211112022				7.0					

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-5I (bg)
6/1/2016	1.3	1.6	1.3	7.0	1.4	1.0	2.7	4.1	4.2
6/2/2016				7.2	1.4	1.9	3.7	4.1	4.3
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	1.3	1.4				1.7			
7/26/2016			1.2	6.6	1.6		3.6	4	4.4
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016		1.3	1.1						
9/14/2016	1.3			6.6			3.4		3.8
9/15/2016					1.5			4.2	
9/16/2016									
9/19/2016						1.6			
9/20/2016									
11/1/2016	1.4		1.3		1.7	1.8			
11/2/2016				7.6			4.5	4.9	
11/3/2016									
11/4/2016		1.6							4.8
11/8/2016									
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017								4.1	
1/11/2017	1.1		1.1		1.2				
1/12/2017				6.8					3.8
1/13/2017							4.2		
1/16/2017		1.4				1.7			
1/17/2017									
2/21/2017						1.7			
2/22/2017						1.7			
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017	1.1								
3/2/2017	1.1	1.3	1		1.2				
		1.5	'		1.2				
3/3/2017 3/6/2017							3.6		
				6.0			3.0		4.5
3/7/2017				6.8				4.2	4.5
3/8/2017								4.2	
3/9/2017	1 1				1.0	17		4.1	
4/26/2017	1.1	1.0	4		1.2	1.7		4.1	
4/27/2017		1.3	1						
4/28/2017				7.0			4.2		
5/1/2017				7.2			4.3		

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-5I (bg)
5/2/2017									4.6
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
				-					4.0
6/27/2017		1.4	1.1	7					4.3
6/28/2017	1.2				1.3				
6/29/2017							4.2		
6/30/2017						1.8		3.7	
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017		1.7	1.1	6.5					4.2
10/4/2017	1.2				1.5	1.8			
10/5/2017							4.7	3.8	
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018			1.1						
6/6/2018		1.4		4.7					
6/7/2018					1.2		4.4		4.5
6/8/2018	1.2							3.4	
6/11/2018						2			
6/12/2018						_			
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									
9/25/2018									
9/26/2018				4.8			4.8		5.1
				7.0			7.0		0.1
9/27/2018	1.0	4.4	4.4		4.5			2.0	
10/1/2018	1.2	1.4	1.1		1.5			3.8	

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-5I (bg)
10/2/2018						1.8			
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019		1.5	1.4						
3/29/2019								4.2	
4/1/2019	1.1				1.2	1.7			
4/2/2019									
4/3/2019				4			4.3		4.2
4/4/2019									
6/12/2019									
9/24/2019		1.3	1.1	3.7					4.5
9/25/2019	1.1				1.1	1.6	4.5	4.8	
9/26/2019									
9/27/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020		1.4						5.2	
3/19/2020	1.1		1.1		1.2	1.8			
3/24/2020				3.5					4.3
3/25/2020							3.9		
3/26/2020									
9/22/2020				3.6			4.5		4.2
9/23/2020	1	1.2	0.99 (J)		1.1				
9/24/2020						1.5			
9/25/2020								5.3	
10/7/2020									
3/1/2021						1.6			
3/2/2021				3.2				4.9	4.3
3/3/2021	0.99 (J)	1.2	0.96 (J)		1.1		4.1		
3/4/2021									
8/19/2021		1.3	1.1		1.1	1.6		5	
8/20/2021									
8/25/2021									
8/26/2021				3.4			4.4		4.3
8/27/2021	1.1								
9/1/2021									
9/3/2021									
9/27/2021									
2/8/2022									
2/9/2022	1.1	1.3	1		1.1				
2/10/2022				3.2				4.7	4.4
2/11/2022						2.1	4.1		

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SA	YGWA-47 (bg)	YGWC-42
6/1/2016									
6/2/2016									
6/6/2016	6.8	6.4							
6/7/2016			4.5	1.9	2.8	2.9			
6/8/2016							5.9		
7/25/2016							0.0		
7/26/2016									
7/27/2016	6.7	6.2	4.5	1.9					
	6.7	0.2	4.5	1.9	0.0	2.5			
7/28/2016					2.6	3.5	5.0		
8/1/2016							5.3		
8/30/2016								5.2	4.4
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		6.1	4.5						
9/19/2016	7			1.9	2.4				
9/20/2016						2.4	5.5		
11/1/2016									
11/2/2016				2.6					
11/3/2016	7.5	7.4	5.4		2.9				
11/4/2016									
11/8/2016						2.8	6.4		
11/14/2016								6.4	
11/15/2016									
11/16/2016									4.7
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	6.5	6.1	4.7						
1/12/2017									
1/13/2017				2.3	2.5				
1/16/2017						1.8			
1/17/2017							5.5		
2/21/2017									
2/22/2017									
2/24/2017								5.5	
2/27/2017									4.7
2/28/2017									
3/1/2017	6.9	6							
3/2/2017	0.5	ŭ	4.8						
3/3/2017			7.0						
				1.0	2.1				
3/6/2017 3/7/2017				1.9	۷. ا				
							E 4		
3/8/2017						17	5.4		
3/9/2017	7	6.5		2	2.1	1.7			
4/26/2017	7	6.5		2	2.1				
4/27/2017									
4/28/2017									
5/1/2017									

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SA	YGWA-47 (bg)	YGWC-42
5/2/2017			4.6			1.8	5.7		
5/8/2017								5.8	
5/9/2017									
5/10/2017									4.4
5/26/2017									
6/27/2017									
6/28/2017	7	6.4							
6/29/2017			4.5	2.6	2.8				
6/30/2017									
7/7/2017							5.7		
7/10/2017						1.9			
7/11/2017								5.8	4.7
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017					2.2				
10/4/2017		6.8	4.7	2.6					
10/5/2017	7						6		
10/6/2017									
10/10/2017								5.9	
10/11/2017						2.4		0.0	
10/12/2017									4.3
10/16/2017									4.0
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018								4.8	
4/3/2018								4.0	
4/4/2018									3.7
					1.7				3.7
6/5/2018 6/6/2018				2.7	1.7				
6/7/2018	6.8			2.7					
6/8/2018	0.8								
6/11/2018		6.9	4.0						
6/11/2018		6.8	4.9			1.0	6.2		
						1.8	6.2		
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018								4	
9/19/2018								4	0.0
9/20/2018									3.8
9/24/2018									
9/25/2018	7.9	7.8	5.6	3.6	2.2				
9/26/2018							6.9		
9/27/2018						2			
10/1/2018									

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SA	YGWA-47 (bg)	YGWC-42
10/2/2018									
2/25/2019									
3/26/2019									
3/27/2019								4.3	3.9
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			4.8		2.5				
4/3/2019	6.9	6.3		3.1					
4/4/2019						1.7	5.9		
6/12/2019									
9/24/2019					3.1				
9/25/2019			5.7	2.8					
9/26/2019	7	7.1					6.5		
9/27/2019						1.7			
10/8/2019								4.4	
10/9/2019									4.1
3/17/2020								4.1	
3/18/2020									
3/19/2020									
3/24/2020	7	6.8	5	2.7	2.8				
3/25/2020									3.2
3/26/2020						1.6	5.4		
9/22/2020								4.2	
9/23/2020	7.2	7.2	6.6				9.3		
9/24/2020				2.7	2	2			3.3
9/25/2020									
10/7/2020									
3/1/2021								3.7	
3/2/2021									
3/3/2021	7	7.2	7.1	2.7			8.6		
3/4/2021					1.8	1.8			2.7
8/19/2021								3.5	
8/20/2021									
8/25/2021						2.5			3.4
8/26/2021		7.3							
8/27/2021	7.4		8.5	2.8					
9/1/2021					1.8		8.9		
9/3/2021									
9/27/2021									
2/8/2022								3.2	
2/9/2022	7.5	7	10.9	2.8	1.7				
2/10/2022						1.9	8.7		3.3
2/11/2022									

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41	
6/1/2016										
6/2/2016										
6/6/2016										
6/7/2016										
6/8/2016										
7/25/2016										
7/26/2016										
7/27/2016										
7/28/2016										
8/1/2016										
8/30/2016										
8/31/2016	1.5	4								
9/1/2016		·	5.3							
9/2/2016				6.3						
9/13/2016				0.0						
9/14/2016					1.1					
9/15/2016					1.1					
9/16/2016										
9/19/2016										
9/20/2016										
11/1/2016										
11/2/2016										
11/3/2016					1.4					
11/4/2016					1.4					
11/8/2016				6.7						
11/14/2016			F 0	6.7						
11/15/2016	4.7		5.8							
11/16/2016	1.7	4.0								
11/28/2016		4.2								
12/15/2016					2.9					
1/10/2017										
1/11/2017										
1/12/2017										
1/13/2017					0.00					
1/16/2017					0.98					
1/17/2017										
2/21/2017		0.7								
2/22/2017	4.5	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										

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
5/2/2017									
5/8/2017		4.2							
5/9/2017			5.3	5.7					
5/10/2017	1.2				0.00				
5/26/2017					0.93				
6/27/2017									
6/28/2017					1				
6/29/2017									
6/30/2017 7/7/2017									
7/10/2017									
7/10/2017	1.5								
7/13/2017	1.5		4.7	5.4					
7/17/2017		3.8	4.7	5.4					
9/22/2017		3.0		6.9					
9/29/2017				5.5					
10/3/2017				5.5	1.2				
10/4/2017					1.2				
10/5/2017									
10/6/2017				5.5					
10/10/2017				0.0					
10/11/2017			5.8	6.4		2.4			
10/12/2017	1.6						3.8	6	3.1
10/16/2017		4.2							
11/20/2017						1.8	4.4	6.9	
11/21/2017									4.2
1/10/2018							4.6		
1/11/2018						1.6			3.8
1/12/2018								6.6	
2/19/2018		4.3					4.6		3.5
2/20/2018						2		6.2	
4/2/2018									
4/3/2018						3.3	5.9	6.9	4.4
4/4/2018	1.8		4.3						
6/5/2018									
6/6/2018									
6/7/2018					1				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				5.6					
6/27/2018									3.6
6/28/2018						2.1	5	6.4	
8/6/2018		3.8							
8/7/2018						1.2	4.3	5.5	3.3
9/19/2018									
9/20/2018	1.9		4.8						
9/24/2018						1.3	4.9	5.9	3.3
9/25/2018				_					
9/26/2018				6					
9/27/2018									
10/1/2018					1.1				

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
10/2/2018		, ,,			, ,				
2/25/2019		4.1							
3/26/2019							4.4		
3/27/2019						1.4		6.2	
3/28/2019	1.8		4.4						3.2
3/29/2019					1.2				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				5.4					
6/12/2019		4.7							
9/24/2019					0.95 (J)				
9/25/2019									
9/26/2019			5	7.1					
9/27/2019									
10/8/2019		5.1							
10/9/2019	2.3					2.1	5.1	5	3.3
3/17/2020		4.8							
3/18/2020									
3/19/2020					0.97 (J)				
3/24/2020							4.7		
3/25/2020	1.8		4.1	6.3		1.9		4	2.7
3/26/2020									
9/22/2020		4.2							
9/23/2020					0.88 (J)				
9/24/2020			4.6			2.7	5		
9/25/2020	2.3							4	3
10/7/2020				8.7					
3/1/2021									
3/2/2021		4.1							
3/3/2021					0.86 (J)				
3/4/2021	2.1		4.1	6.6		4.9	4.9	3.9	3.4
8/19/2021									
8/20/2021		5.2							
8/25/2021									• •
8/26/2021						7.2		4.1	3.6
8/27/2021					0.99 (J)				
9/1/2021			4.4	7			F F		
9/3/2021	1.1			7			5.5		
9/27/2021	1.1	F 7	4.2			7.4	6.2		2.5
2/8/2022 2/9/2022	2.1	5.7	4.2		171)	7.4	6.2		3.5
					1 (J)			4	
2/10/2022 2/11/2022				6.6				4	
2/11/2022				6.6					

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-5I (bg)
6/1/2016	<0.1	0.15 (J)	0.12 (J)						
6/2/2016				<0.1	<0.1	0.62	0.11 (J)	<0.1	<0.1
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	0.06 (J)	0.14 (J)		0.06 (J)					
7/26/2016			0.08 (J)		<0.1	0.49	0.05 (J)	0.02 (J)	<0.1
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016	<0.1		0.11 (J)						
9/14/2016	· · ·	0.18 (J)	0(0)		<0.1		0.04 (J)		<0.1
9/15/2016		0.10 (0)			-0.1	0.54	0.04 (0)	<0.1	-0.1
9/16/2016						0.04		30.1	
				-0.1					
9/19/2016				<0.1					
9/20/2016						0.00			
11/1/2016		<0.1	<0.1	<0.1		0.68			
11/2/2016					<0.1		<0.1	<0.1	
11/3/2016									
11/4/2016	<0.1								<0.1
11/8/2016									
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017								<0.1	
1/11/2017		0.09 (J)	0.05 (J)			0.49			
1/12/2017							0.04 (J)		<0.1
1/13/2017					<0.1				
1/16/2017	<0.1			<0.1					
1/17/2017									
2/21/2017				<0.1					
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017		<0.1							
3/2/2017	<0.1		<0.1			0.48			
3/3/2017									
3/6/2017					<0.1				
3/7/2017							<0.1		<0.1
3/8/2017								<0.1	
3/9/2017								=	
4/26/2017		0.08 (J)		<0.1		0.48		<0.1	
4/27/2017	0.01 (J)	(0)	0.04 (J)	=					
4/28/2017	3.01 (0)		J.07 (0)						
5/1/2017					<0.1		<0.1		
					J.,		<b></b>		

		YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-5I (bg)
5/2/2017										<0.1
5/8/2017										
5/9/2017										
5/10/2017										
5/26/2017										
		-0.1		-0.1				-0.1		~0.1
6/27/2017		<0.1	2.42.43	<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									
7/11/2017	7									
7/13/2017	7									
7/17/2017	7									
9/22/2017	7									
9/29/2017	7									
10/3/2017		<0.1		<0.1				<0.1		<0.1
10/4/2017			<0.1		<0.1		<0.1			
10/5/2017						<0.1			<0.1	
10/6/2017						40.1			40.1	
10/10/201										
10/11/201										
10/12/201										
10/16/201										
11/20/201	17									
11/21/201	17									
1/10/2018	8									
1/11/2018	8									
1/12/2018	8									
2/19/2018	8									
2/20/2018	8									
3/27/2018	8	<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				-0.1		-0.1		-0.1		-0.1
4/2/2018										
4/3/2018										
4/4/2018										
6/5/2018				0.055 (J)						
6/6/2018		<0.1						0.15 (J)		
6/7/2018						<0.1	0.48			<0.1
6/8/2018			0.2 (J)						<0.1	
6/11/2018	8				<0.1					
6/12/2018	8									
6/13/2018	8									
6/27/2018	8									
6/28/2018	8									
8/6/2018										
8/7/2018										
9/19/2018										
9/20/2018										
9/24/2018										
3 10										

		YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-5I (bg)
9/25/2	2018									
9/26/2	2018					<0.1		<0.1		<0.1
9/27/2										
10/1/2	2018	<0.1	<0.1	<0.1			0.44		<0.1	
10/2/2	2018				<0.1					
2/25/2	2019									
2/26/2	2019				<0.1				<0.1	
2/27/2	2019	<0.1	0.13 (J)	0.052 (J)			0.53			
3/4/20	)19					<0.1		0.19 (J)		<0.1
3/5/20	)19									
3/6/20	)19									
3/26/2	2019									
3/27/2	2019									
3/28/2	2019	<0.1		0.036 (J)						
3/29/2	2019								<0.1	
4/1/20	)19		0.1 (J)		<0.1		0.45			
4/2/20	)19									
4/3/20	)19					<0.1		0.047 (J)		<0.1
4/4/20	)19									
6/12/2										
8/19/2										
8/20/2	2019									
8/21/2										
8/22/2										
9/24/2		<0.1		0.063 (J)				0.05 (J)		<0.1
9/25/2			0.1 (J)		<0.1	<0.1	0.46		<0.1	
9/26/2										
9/27/2										
10/8/2										
10/9/2										
2/10/2		<0.1		0.061 (J)						
2/11/2			0.094 (J)		.0.4	.0.4	0.4			.0.4
2/12/2					<0.1	<0.1	0.4	<0.1	<0.1	<0.1
3/17/2		-0.1							-0.1	
3/18/2		<0.1	0.11 (1)	0.064 (1)	-0.1		0.51		<0.1	
3/19/2 3/24/2			0.11 (J)	0.064 (J)	<0.1		0.51	<0.1		<0.1
3/25/2						<0.1		<b>~0.1</b>		<b>~0.1</b>
3/26/2						40.1				
8/26/2										
8/27/2										
9/22/2						<0.1		0.056 (J)		<0.1
9/23/2		<0.1	0.098 (J)	0.058 (J)			0.47	0.000 (0)		•
9/24/2			3.000 (3)	2.000 (0)	<0.1		2			
9/25/2					···				<0.1	
10/7/2									<del></del>	
2/8/20								0.055 (J)		<0.1
2/9/20						<0.1		3.000 (3)		=: *
2/10/2			<0.1				0.43		<0.1	
2/11/2					<0.1					
2/12/2		<0.1		0.068 (J)						
3/1/20					<0.1					

		YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-5I (bg)
3/2/202	21							<0.1	<0.1	<0.1
3/3/202	21	<0.1	0.1	0.078 (J)		<0.1	0.44			
3/4/202	21									
8/19/20	21	<0.1		0.074 (J)	<0.1		0.47		<0.1	
8/20/20	21									
8/25/20	21									
8/26/20	21					<0.1		0.061 (J)		<0.1
8/27/20	21		0.12							
9/1/202	21									
9/3/202	21									
9/27/20	21									
2/8/202	22									
2/9/202	22	<0.1	0.097 (J)	0.057 (J)			0.43			
2/10/20	)22							0.055 (J)	<0.1	<0.1
2/11/20	)22				<0.1	<0.1				

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-23S	YGWA-17S (bg)	YGWC-24SA	YGWA-47 (bg)	YGWC-42
6/1/2016									
6/2/2016									
6/6/2016	<0.1	<0.1							
6/7/2016			<0.1	<0.1	<0.1	<0.1			
6/8/2016							<0.1		
7/25/2016									
7/26/2016									
7/27/2016	<0.1	<0.1		<0.1		<0.1			
7/28/2016			0.02 (J)		0.03 (J)				
8/1/2016			(-)		(5)		<0.1		
8/30/2016								0.09 (J)	0.02 (J)
8/31/2016								(2)	(-)
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)	<0.1		-0.1			
9/20/2016		<b>~</b> 0.1	0.02 (3)	<b>~</b> 0.1	<0.1		<0.1		
11/1/2016					40.1		30.1		
11/2/2016				<0.1					
11/3/2016	-0.1	-0.1	-0.1	<b>~</b> 0.1		-0.1			
11/4/2016	<0.1	<0.1	<0.1			<0.1			
					-0.1		-0.1		
11/8/2016					<0.1		<0.1	0.19 ( 1)	
11/14/2016								0.18 (J)	
11/15/2016									0.07 (1)
11/16/2016									0.07 (J)
11/28/2016									
12/15/2016									
1/10/2017	-0.1	-0.1				-0.1			
1/11/2017	<0.1	<0.1				<0.1			
1/12/2017			.0.4						
1/13/2017			<0.1	<0.1	-0.4				
1/16/2017					<0.1		-0.4		
1/17/2017							<0.1		
2/21/2017									
2/22/2017								0.05 (1)	
2/24/2017 2/27/2017								0.05 (J)	0.00 (1)
									0.06 (J)
2/28/2017	-0.1	-0.1							
3/1/2017	<0.1	<0.1				-0.1			
3/2/2017						<0.1			
3/3/2017			<0.1	-0.1					
3/6/2017			<0.1	<0.1					
3/7/2017							-0.1		
3/8/2017					-0.1		<0.1		
3/9/2017	-0.1	-0.1	0.04 (1)	-0.1	<0.1				
4/26/2017	<0.1	<0.1	0.04 (J)	<0.1					
4/27/2017									
4/28/2017									
5/1/2017									

	\(\(\alpha\)	\(\text{O}\) \(\text{A}\) \(\text{A}\) \(\text{O}\) \(\text{A}\) \(\te	\(\(\alpha\)	\(\alpha\)	V0W0 000	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	V0W0 0404	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	V0W0 40
5/2/2017	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-23S <0.1	YGWA-17S (bg) <0.1	YGWC-24SA <0.1	YGWA-47 (bg)	YGWC-42
5/8/2017								0.03 (J)	
5/9/2017									
5/10/2017									<0.1
5/26/2017									•
6/27/2017									
	-0.1	-0.4							
6/28/2017	<0.1	<0.1							
6/29/2017			<0.1	<0.1		<0.1			
6/30/2017									
7/7/2017							<0.1		
7/10/2017					<0.1				
7/11/2017								0.07 (J)	<0.1
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017			<0.1						
10/4/2017	<0.1			<0.1		<0.1			
10/5/2017		<0.1					<0.1		
10/6/2017									
10/10/2017								<0.1	
10/11/2017					<0.1				
10/12/2017									<0.1
10/16/2017									-0.1
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
3/27/2018									
3/28/2018	<0.1	<0.1				<0.1			
3/29/2018			<0.1	<0.1					
3/30/2018					<0.1		<0.1		
4/2/2018								<0.1	
4/3/2018									
4/4/2018									<0.1
6/5/2018			0.13 (J)						
6/6/2018				<0.1					
6/7/2018		<0.1							
6/8/2018									
6/11/2018	<0.1					<0.1			
6/12/2018					<0.1		<0.1		
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018								<0.1	
9/20/2018									0.041 (J)
9/24/2018									V-7

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-23S	YGWA-17S (bg)	YGWC-24SA	YGWA-47 (bg)	YGWC-42
9/25/2018	<0.1	<0.1	0 (J)	<0.1		<0.1			
9/26/2018			( )				<0.1		
9/27/2018					<0.1				
10/1/2018									
10/2/2018									
2/25/2019									
2/26/2019									
2/27/2019									
3/4/2019									
3/5/2019	<0.1		0.32	<0.1		<0.1	<0.1		
3/6/2019		<0.1			<0.1				
3/26/2019									
3/27/2019								0.081 (J)	<0.1
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			0.12 (J)			<0.1			
4/3/2019	<0.1	<0.1	(-)	<0.1					
4/4/2019					0.049 (J)		0.033 (J)		
6/12/2019					0.043 (0)		0.055 (0)		
8/19/2019									
8/20/2019								<0.1	
8/21/2019									
8/22/2019									<0.1
9/24/2019			0.15 (J)						
9/25/2019				<0.1		<0.1			
9/26/2019	<0.1	<0.1					0.098 (J)		
9/27/2019					0.12 (J)				
10/8/2019								0.034 (J)	
10/9/2019									<0.1
2/10/2020									
2/11/2020	<0.1	<0.1				<0.1			
2/12/2020			0.1 (J)	<0.1					
3/17/2020								<0.1	
3/18/2020									
3/19/2020									
3/24/2020	<0.1	<0.1	0.081 (J)	<0.1		<0.1			
3/25/2020			(0)						<0.1
3/26/2020					<0.1		<0.1		-0.1
8/26/2020					-0.1		-0.1		
								-0.1	
8/27/2020								<0.1	
9/22/2020	-0.1	-0.4				-0.1	-0.1	<0.1	
9/23/2020	<0.1	<0.1				<0.1	<0.1		
9/24/2020			0.079 (J)	<0.1	<0.1				<0.1
9/25/2020									
10/7/2020									
2/8/2021									
2/9/2021	<0.1	<0.1	0.092 (J)	<0.1	<0.1		<0.1		
2/10/2021									<0.1
2/11/2021									
2/12/2021									
3/1/2021								<0.1	

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-23S	YGWA-17S (bg)	YGWC-24SA	YGWA-47 (bg)	YGWC-42
3/2/2021									
3/3/2021	<0.1	<0.1		<0.1		<0.1	<0.1		
3/4/2021			0.091 (J)		<0.1				<0.1
8/19/2021								<0.1	
8/20/2021									
8/25/2021					<0.1				<0.1
8/26/2021	<0.1								
8/27/2021		<0.1		<0.1		<0.1			
9/1/2021			0.11				<0.1		
9/3/2021									
9/27/2021									
2/8/2022								<0.1	
2/9/2022	<0.1	<0.1	0.1	<0.1		<0.1			
2/10/2022					<0.1		<0.1		<0.1
2/11/2022									

		YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
6/1	1/2016									
6/2	2/2016									
6/6	6/2016									
6/7	7/2016									
6/8	8/2016									
7/2	25/2016									
7/2	26/2016									
7/2	27/2016									
7/2	28/2016									
8/1	1/2016									
8/3	30/2016									
8/3	31/2016	0.12 (J)	0.14 (J)							
9/1	1/2016			0.09 (J)						
9/2	2/2016				0.05 (J)					
9/1	13/2016									
9/1	14/2016					0.08 (J)				
9/1	15/2016									
9/1	16/2016									
9/1	19/2016									
9/2	20/2016									
11	/1/2016									
11	/2/2016									
11	/3/2016									
11	/4/2016					<0.1				
11	/8/2016									
11	/14/2016				0.18 (J)					
11	/15/2016			0.16 (J)						
11	/16/2016	0.2 (J)								
11	/28/2016		0.12 (J)							
	/15/2016					0.06 (J)				
	10/2017									
	11/2017									
	12/2017									
	13/2017									
	16/2017					0.1 (J)				
	17/2017									
	21/2017									
	22/2017		0.09 (J)							
	24/2017	0.21 (J)								
	27/2017			0.06 (J)	0.00 (1)					
	28/2017				0.09 (J)					
	1/2017 2/2017									
	3/2017					<0.1				
	6/2017					<b>~</b> 0.1				
	7/2017									
	3/2017 3/2017									
	9/2017									
	26/2017									
	27/2017									
	28/2017					0.06 (J)				
	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	0/2017	0.04 (J)								
5/26	6/2017					0.09 (J)				
6/27	7/2017									
6/28	8/2017					0.11 (J)				
6/29	9/2017									
6/30	0/2017									
	/2017									
7/10	0/2017									
7/11	1/2017	0.2 (J)								
	3/2017			<0.1	<0.1					
	7/2017		0.14 (J)							
	2/2017				0.09 (J)					
	9/2017				<0.1					
	3/2017					<0.1				
	4/2017									
	5/2017									
	6/2017				<0.1					
	10/2017									
	11/2017			0.14 (J)	<0.1		<0.1			
	12/2017	0.1 (J)		0.14 (0)	-0.1		-0.1	<0.1	<0.1	<0.1
	16/2017	0.1 (3)	0.12 (J)					<b>~0.1</b>	<b>~</b> 0.1	<b>~0.1</b>
	20/2017		0.12 (3)				<0.1	0.2 (J)		<0.1
	21/2017						<b>~0.1</b>	0.2 (3)	<0.1	<b>~0.1</b>
	0/2018								<0.1	<0.1
							-0.1		-0.1	<b>V</b> 0.1
	1/2018						<0.1	0.01 (1)	<0.1	
	2/2018		0.17					0.21 (J)	-0.1	-0.1
	9/2018		0.17				0.00	-0.4	<0.1	<0.1
	0/2018						0.23	<0.1		
	7/2018									
	8/2018					0.31				
	9/2018									
	0/2018				<0.1					
	/2018									
	/2018						<0.1	0.41	<0.1	<0.1
	/2018	<0.1		<0.1						
	/2018									
	/2018									
	/2018					0.11 (J)				
	/2018									
	1/2018									
	2/2018									
	3/2018				<0.1					
	7/2018								<0.1	
	8/2018						<0.1	0.43		<0.1
	/2018		0.087 (J)							
	/2018						0.048 (J)	<0.1	0.11 (J)	<0.1
	9/2018									
	0/2018	<0.1		<0.1						
9/24	4/2018						<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)		(5)					
8/19/2019		<0.1							
8/20/2019									
8/21/2019	0.062 (J)					<0.1			<0.1
8/22/2019	0.002 (0)					-0.1	<0.1	<0.1	-0.1
9/24/2019					0.081 (J)		· · ·		
9/25/2019					0.001 (0)				
9/26/2019			0.09 (J)	0.094 (J)					
9/27/2019			0.00 (0)	0.004 (0)					
10/8/2019		0.052 (J)							
10/9/2019	<0.1	0.032 (3)				<0.1	<0.1	<0.1	<0.1
2/10/2020	40.1					30.1	40.1	-0.1	10.1
2/11/2020					0.075 (J)				
2/11/2020					0.073 (3)	<0.1			<0.1
3/17/2020		0.053 (J)				<b>~</b> 0.1			<b>10.1</b>
3/17/2020		0.055 (3)							
3/19/2020					0.003 (1)				
3/24/2020					0.093 (J)				<0.1
3/25/2020	0.073 (J)		<0.1	<0.1		<0.1	<0.1	<0.1	<b>10.1</b>
3/26/2020	0.073 (3)		<b>~0.1</b>	<b>~0.1</b>		<b>~0.1</b>	<0.1	<b>~0.1</b>	
8/26/2020		0.068 (J)							
		0.068 (J)							
8/27/2020		0.059 (1)							
9/22/2020		0.058 (J)			0.00 (1)				
9/23/2020			-0.4		0.08 (J)	-0.1			10.1
9/24/2020	-0.1		<0.1			<0.1	-0.4	-0.1	<0.1
9/25/2020	<0.1			.0.4			<0.1	<0.1	
10/7/2020				<0.1					
2/8/2021	0.058.48		-0.1				-0.1		
2/9/2021	0.058 (J)		<0.1	-0.4	0.00475	-0.1	<0.1	-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					

	GWA-2 (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
8/27/2008	6.53								
3/3/2009	6.35								
11/18/2009	6.47								
3/3/2010	6.53								
3/10/2011	5.83								
9/8/2011	5.69								
3/5/2012	6.27								
9/10/2012	6.23								
2/6/2013	7.56								
8/12/2013	6.68								
2/5/2014	6.32								
8/3/2015	6.13 (D)								
2/16/2016	5.64			- 40					
6/1/2016		6.33	7.72	7.46					
6/2/2016					5.46	7.67	6.36	5.75	7.84
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016		6.21	7.74					5.82	
7/26/2016				7.43	5.45	7.66	6.22		7.88
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016		6.16		7.44					
9/14/2016			7.65			7.6	6.23		
9/15/2016					5.45				7.74
9/16/2016									
9/19/2016								5.78 (D)	
9/20/2016								, ,	
11/1/2016			7.7	7.24				5.62	7.75
11/2/2016					5.41	7.35	6.08		
11/3/2016									
11/4/2016		6.29							
11/8/2016		0.20							
11/14/2016									
11/15/2016									
11/16/2016									
11/16/2016	6.23								
	0.23								
12/15/2016					E 27				
1/10/2017			7.52	7.2	5.37				7.66
1/11/2017			7.53	7.3		7.40			7.66
1/12/2017						7.49	0.40		
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-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
2/27/2017									
2/28/2017									
3/1/2017			7.42						
3/2/2017		6.28		7.23					7.68
3/3/2017									
3/6/2017							6.2		
3/7/2017						7.43	0.2		
3/8/2017					5.41	7.43			
					3.41				
3/9/2017			7.4		F 02			E EC	7.45
4/26/2017		0.00	7.4	0.00	5.02			5.56	7.45
4/27/2017		6.09		6.99					
4/28/2017						7.00	0.01		
5/1/2017						7.22	6.21		
5/2/2017									
5/8/2017	6.12								
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		6.21		6.87		7.32			
6/28/2017			7.5						7.65
6/29/2017							6.21		
6/30/2017					5.39			5.72	
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017	6.03								
9/22/2017									
9/29/2017									
10/3/2017		5.98		6.81		7.48			
10/4/2017			7.45					5.87	7.49
10/5/2017					5.49		6.16		
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017	6.12								
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
	6.12								
2/19/2018	6.13								
2/20/2018		0.05			5.47			5.00	
3/27/2018		6.25	7.74		5.47			5.83	7.04
3/28/2018			7.74						7.91
3/29/2018				7.38		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-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/6/2018		6.17				7.43			
6/7/2018							6.12		7.69
6/8/2018			7.64		5.45				
6/11/2018								5.69	
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018	6.01								
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									
9/25/2018									
9/26/2018						7.13	5.84		
9/27/2018									
10/1/2018		5.9	7.47	6.8	5.39				7.39
10/2/2018								5.39	
2/25/2019	6.51								
2/26/2019					5.46			5.77	
2/27/2019		5.8	7.54	6.84					7.55
3/4/2019						7.46	6.18		
3/5/2019									
3/6/2019									
3/26/2019									
3/27/2019									
3/28/2019		6.15		6.99					
3/29/2019					5.34				
4/1/2019			7.74					5.62	7.87
4/2/2019									
4/3/2019						7.11	6.43		
4/4/2019									
6/12/2019	6.3								
8/19/2019	6.23								
8/20/2019									
8/21/2019									
8/22/2019									
9/24/2019		6.23		7.07		6.93			
9/25/2019			7.47		5.19		6.2	5.69	7.64
9/26/2019									
9/27/2019									
10/8/2019	6.28								
10/9/2019									
2/10/2020		6.1		7.2					
2/11/2020			7.09						
2/12/2020					5.48	7.52	6.15	5.8	7.83
3/17/2020	6.14								
3/18/2020		6.19			5.38				
3/19/2020			7.31	7.03				6	7.65
3/24/2020						7.34			
3/25/2020							6.26		
3/26/2020									

	GWA-2 (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/6/2020	6.24								
8/26/2020	5.67								
8/27/2020									
9/22/2020	5.78					7.19 (D)	5.8 (D)		
9/23/2020		6.01	7.37	7.15					7.57
9/24/2020								5.67	
9/25/2020					5.44				
10/7/2020									
2/8/2021									
2/9/2021							6.06		
2/10/2021			7.58		5.35				7.81
2/11/2021								5.73	
2/12/2021		6.21		7.14					
3/1/2021								5.78	
3/2/2021	5.42				5.49	7.15			
3/3/2021		5.38	8.23	7.2			6.21		8.39
3/4/2021									
8/19/2021		6.38		6.32	7.32				5.34
8/20/2021	5.86								
8/25/2021									
8/26/2021						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		6.24	7.66	7.12					7.97
2/10/2022					4.5	6.99			
2/11/2022							5.95	5.59	

	YGWA-5I (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-23S	YGWC-24SA	YGWA-47 (bg)
8/27/2008									
3/3/2009									
11/18/2009									
3/3/2010									
3/10/2011									
9/8/2011									
3/5/2012									
9/10/2012									
2/6/2013									
8/12/2013									
2/5/2014									
8/3/2015									
2/16/2016									
6/1/2016									
6/2/2016	5.75								
6/6/2016		5.71	6.17						
6/7/2016				5.77	6.1	5.62	5.57		
6/8/2016								5.65	
7/25/2016								0.00	
7/26/2016	5.72								
7/27/2016	3.72	E 46	6 14	F 70		F F0			
		5.46	6.14	5.79	0.10	5.59	5.0		
7/28/2016					6.12		5.6		
8/1/2016								5.47	
8/30/2016									5.75
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016									
9/14/2016	5.74								
9/15/2016									
9/16/2016						5.58			
9/19/2016		5.59	6.04	5.73	6.12				
9/20/2016							5.53	5.61	
11/1/2016									
11/2/2016				5.67					
11/3/2016		5.39	5.97		6.07	5.59			
11/4/2016	5.61	0.00	0.07		0.07	0.00			
11/8/2016	0.01						5.53	5.55	
11/14/2016							5.55	5.55	5.59
									3.33
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017		5.48	6.05			5.59			
1/12/2017	5.71								
1/13/2017				5.79	6.41				
1/16/2017							5.59		
1/17/2017								5.53	
2/21/2017									
2/22/2017									
2/24/2017									5.49

	YGWA-5I (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-23S	YGWC-24SA	YGWA-47 (bg)
2/27/2017									
2/28/2017									
3/1/2017		5.41	5.94						
3/2/2017						5.54			
3/3/2017						0.04			
				F 60	0.04				
3/6/2017				5.63	6.34				
3/7/2017	5.66								
3/8/2017								5.62	
3/9/2017							5.56		
4/26/2017		5.4	5.99	5.66	6.32				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017	5.65					5.47	5.61	5.46	
5/8/2017									5.58
5/9/2017									0.00
5/10/2017									
5/26/2017									
6/27/2017	5.7								
6/28/2017		5.36	6						
6/29/2017				5.85	6.47	5.56			
6/30/2017									
7/7/2017								5.81	
7/10/2017							5.68		
7/11/2017									5.58
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
	5.70				0.50				
10/3/2017	5.79	5.00		5.00	6.56				
10/4/2017		5.32		5.83		5.57			
10/5/2017			6.11					5.45	
10/6/2017									
10/10/2017									5.49
10/11/2017							5.46		
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
3/27/2018		5.24	0.1			5.50			
3/28/2018		5.34	6.1			5.59			
3/29/2018	5.63			5.93	6.75				
3/30/2018							5.73	5.64	
4/2/2018									6.3 (O)
4/3/2018									
4/4/2018									
6/5/2018					6.09				

	YGWA-5I (bg)	YGWA-18S (bg)	YGWA-18I (bg)		YGWA-21I (bg)	YGWA-17S (bg)	YGWC-23S	YGWC-24SA	YGWA-47 (bg)
6/6/2018				5.86					
6/7/2018	5.63		5.98						
6/8/2018									
6/11/2018		5.28				5.58			
6/12/2018							5.63	5.64	
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									5.48
9/20/2018									
9/24/2018									
9/25/2018		4.86	5.81	5.84	6.67	5.59			
9/26/2018	5.63							5.61	
9/27/2018							5.47		
10/1/2018									
10/2/2018									
2/25/2019									
2/26/2019									
2/27/2019									
3/4/2019	5.75								
3/5/2019	5.75	5.26		6.07	7.22	5.48		5.72	
3/6/2019		3.20	5.99	0.07	7.22	0.40	5.84	5.72	
3/26/2019			3.33				3.04		
3/27/2019									5.83
3/28/2019									5.63
3/29/2019									
4/1/2019					0.04	F 74			
4/2/2019	5.00	F 47	0.00	F 74	6.94	5.74			
4/3/2019	5.63	5.47	6.29	5.71			5.04	5.00	
4/4/2019							5.64	5.66	
6/12/2019									
8/19/2019									5.50
8/20/2019									5.58
8/21/2019									
8/22/2019									
9/24/2019	5.6				6.87				
9/25/2019				5.86		5.49			
9/26/2019		5.2	6.04					5.52	
9/27/2019							5.77		
10/8/2019									5.59
10/9/2019									
2/10/2020									
2/11/2020		5.3	6.07			5.58			
2/12/2020	5.83			6	7.13				
3/17/2020									5.57
3/18/2020									
3/19/2020									
3/24/2020	5.81	5.33	5.98	5.86	6.35	5.57			
3/25/2020									
3/26/2020							5.69	5.51	

	YGWA-5I (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-23S	YGWC-24SA	YGWA-47 (bg)
5/6/2020									
8/26/2020									
8/27/2020									4.88
9/22/2020	5.99 (D)								5.46
9/23/2020		5.29 (D)	6.01 (D)			5.58 (D)		5.64	
9/24/2020				5.8 (D)	6.7 (D)		5.51		
9/25/2020									
10/7/2020									
2/8/2021	5.67								
2/9/2021		5.43	6.12	5.86	6.95		5.61	5.69	
2/10/2021									
2/11/2021									
2/12/2021									
3/1/2021									5.48
3/2/2021	5.63								
3/3/2021		5.31	5.89	5.89		5.52		5.7	
3/4/2021					6.8		5.44		
8/19/2021									5.5
8/20/2021									
8/25/2021							5.46		
8/26/2021	5.51	4.4							
8/27/2021			5.4	5.57		5.27			
9/1/2021					6.65			5.22	
9/3/2021									
9/27/2021									
2/8/2022									5.4
2/9/2022		5.28	5.98	5.91	6.84	5.53			
2/10/2022	5.14						5.51	4.66	
2/11/2022									

	YGWC-42	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWC-38	YGWA-40 (bg)
8/27/2008									
3/3/2009									
11/18/2009									
3/3/2010									
3/10/2011									
9/8/2011									
3/5/2012									
9/10/2012									
2/6/2013									
8/12/2013									
2/5/2014									
8/3/2015									
2/16/2016									
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016									
7/26/2016									
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016	5.64								
	3.04	7.07							
8/31/2016		7.27	F 70						
9/1/2016			5.78	5.04					
9/2/2016				5.84					
9/13/2016					7.41				
9/14/2016									
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016					7.12				
11/8/2016									
11/14/2016				6.28					
11/15/2016			5.81						
11/16/2016	6.21	6.79							
11/28/2016	-								
12/15/2016					7.24				
1/10/2017					,. <u></u> -T				
1/10/2017									
1/12/2017									
1/13/2017									
1/16/2017					7.24				
1/17/2017									
2/21/2017									
2/22/2017									
2/24/2017		6.39							

	VOWO 40	VOWO 42	VOIMO 40	VOMO 20A	VOMA 01 (1)	VOIMA 20 (b)	VOWO 44	VOWO 20	VOMA 40 (b =)
0/07/0047	YGWC-42	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWC-38	YGWA-40 (bg)
2/27/2017	6.09		5.68	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									
5/9/2017			6.18	6.3					
5/10/2017	5.79	6.5							
5/26/2017					7.13				
6/27/2017									
6/28/2017					7.06				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017	5.45	6.32							
7/13/2017			5.6	5.57					
7/17/2017									
9/22/2017				5.5					
9/29/2017				5.58					
10/3/2017					6.99				
10/4/2017									
10/5/2017									
10/6/2017				5.51					
10/10/2017									
10/11/2017			5.61	5.47		6.4			
10/12/2017	5.48	5.97					4.94	4.85	5.43
10/16/2017									
11/20/2017						6.33		4.87	5.1
11/21/2017						0.00	4.69		<b></b>
1/10/2018									4.97
1/11/2018						6.29	4.73		4.07
1/12/2018						0.23	4.75	4.78	
2/19/2018							4.96	4.70	5.6
2/20/2018						7.22	4.50	5.1	3.0
3/27/2018						7.22		5.1	
3/28/2018					7.3				
					7.3				
3/29/2018				E E1					
3/30/2018				5.51					
4/2/2018						6 97	E 21	4.76	E 94
4/3/2018	F 02	6.41	F 00			6.87	5.31	4.76	5.84
4/4/2018	5.93	6.41	5.98						
6/5/2018									

	YGWC-42	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWC-38	YGWA-40 (bg)
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	4.77	4.72	5.18
9/19/2018									
9/20/2018	5.63	5.69	5.67						
9/24/2018						5.81	4.78	4.67	5.14
9/25/2018									
9/26/2018				5.53					
9/27/2018									
10/1/2018					7.07				
10/2/2018									
2/25/2019									
2/26/2019									
2/27/2019					7.27				
3/4/2019									
3/5/2019									
3/6/2019				5.21					
3/26/2019									5.3
3/27/2019	5.57					5.84		4.79	
3/28/2019	0.07	5.96	5.86			0.01	5		
3/29/2019					7.06				
4/1/2019					7.00				
4/2/2019									
4/3/2019									
4/4/2019				5.74					
6/12/2019				0.7.					
8/19/2019									
8/20/2019									
8/21/2019		5.84				5.96			5.26
8/22/2019	5.61	0.0 .				0.00	4.89	4.81	0.20
9/24/2019	0.01				7.01				
9/25/2019									
9/26/2019			5.6	5.51					
9/27/2019			0.0	0.01					
10/8/2019									
10/9/2019	5.5	5.78				5.81	4.86	4.8	5.22
2/10/2020									
2/11/2020					7.38				
2/12/2020						5.97			5.3
3/17/2020						J.J.			=:=
3/17/2020									
3/19/2020					7.22				
3/24/2020					1.22				5.29
3/25/2020	5.53	5.79	5.69	5.49		5.78	4.87	4.89	0.20
3/26/2020	5.55	5.75	5.05	5.75		5.70	7.07	7.03	
5,20,2020									

	YGWC-42	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWC-38	YGWA-40 (bg)
5/6/2020									
8/26/2020									
8/27/2020									
9/22/2020									
9/23/2020					7.22				
9/24/2020	5.55		5.62			5.7 (D)			5.43 (D)
9/25/2020		5.75					4.95	4.9	
10/7/2020				5.86					
2/8/2021									
2/9/2021		5.86	5.79					5.04	
2/10/2021	5.65			6.31	7.29	5.8	4.98		5.19
2/11/2021									
2/12/2021									
3/1/2021									
3/2/2021									
3/3/2021					7.92				
3/4/2021	5.59	5.88	5.88	5.67		5.54	4.69	5.01	5.23
8/19/2021									
8/20/2021									
8/25/2021	6.73								
8/26/2021						6.91	6.77	4.54	
8/27/2021					7.14				
9/1/2021			5.15						
9/3/2021				5.06					4.75
9/27/2021		6.08							
2/8/2022		5.82 (D)	5.79 (D)			5.78	5.07 (D)		5.26
2/9/2022					5.89				
2/10/2022	5.57							4.85	
2/11/2022				5.58					

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-5I (bg)
6/1/2016	12	4.2	5						
6/2/2016				20	5.8	1.3	8	6.6	1.9
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	8.4	3.7				1.2			
7/26/2016			5.4	20	6.7		7.7	6.1	1.8
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016		5.2	2.9						
9/14/2016	8.6			19			7.5		1.8
9/15/2016					6			6.1	
9/16/2016									
9/19/2016						1.2			
9/20/2016									
11/1/2016	8.9		3.9		4.9	1.3			
11/2/2016				20			8.2	6.3	
11/3/2016									
11/4/2016		5							2
11/8/2016									
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017								5.9	
1/11/2017	8.6		3.7		4.5				
1/12/2017				19					1.9
1/13/2017							8.1		
1/16/2017		7.9				<1			
1/17/2017									
2/21/2017						1.4			
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017	9.3								
3/2/2017		7.4	4.6		4.4				
3/3/2017									
3/6/2017							8		
3/7/2017				20					2.1
3/8/2017								7	
3/9/2017									
4/26/2017	11				5.1	1.4		7	
4/27/2017		7.4	5.2						
4/28/2017									
5/1/2017				20			8.4		

		YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-5I (bg)
5/2	/2017									2
5/8	3/2017									
	/2017									
	0/2017									
	6/2017									
	7/2017		6.4	5.9	18					2.1
	8/2017	12	0.4	5.9	10	5.4				2.1
		12				5.4		0.0		
	9/2017							9.2	0.5	
	0/2017						<1		6.5	
	7/2017									
	0/2017									
	1/2017									
	3/2017									
	7/2017									
	2/2017									
	9/2017									
	/3/2017		5.9	6.6	16					2.3
10/	4/2017	12				6.2	1.4			
10/	/5/2017							9.6	7.9	
10/	6/2017									
10/	10/2017									
10/	11/2017									
10/	12/2017									
10/	16/2017									
11/	20/2017									
11/	21/2017									
1/1	0/2018									
1/1	1/2018									
	2/2018									
	9/2018									
	0/2018									
	2/2018									
	3/2018									
	/2018									
	5/2018			6.4						
	/2018		4.4		8.3					
	//2018					6.7		8.5		2
	3/2018	9.6							6.4	
	1/2018						1.1			
	2/2018									
	3/2018									
	7/2018									
	8/2018									
	5/2018									
	//2018									
	9/2018									
	20/2018									
	4/2018									
	25/2018				7.0			10.2		2.2
	26/2018				7.9			10.2		2.3
	7/2018	0.1	4	F.C.		7.1			6.9	
10/	/1/2018	9.1	4	5.6		7.1			6.8	

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-5I (bg)
10/2/2018						1			
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019		4.3	8						
3/29/2019								7.3	
4/1/2019	8.5				7.2	0.96 (J)			
4/2/2019									
4/3/2019				7			8.5		2.1
4/4/2019									
6/12/2019									
9/24/2019		4.3	5.3	5.5					2.4
9/25/2019	13.8				7	0.81 (J)	8.5	6.6	
9/26/2019									
9/27/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020		5.3						8.1	
3/19/2020	12.9		10		9	1.6			
3/24/2020				5.9					2.1
3/25/2020							8.8		
3/26/2020									
9/22/2020				5.5			8.2		2.1
9/23/2020	16.8	3.4	8.1		6.9				
9/24/2020						0.69 (J)			
9/25/2020								6.1	
10/7/2020									
3/1/2021						0.88 (J)			
3/2/2021				2.6				6	2.3
3/3/2021	9.6	4.4	9		7		7.8		
3/4/2021									
8/19/2021		4.9	8.9		7.5	1		6.7	
8/20/2021									
8/25/2021									
8/26/2021				6			8.5		2.4
8/27/2021	18.2								
9/1/2021									
9/3/2021									
9/27/2021									
2/8/2022									
2/9/2022	16	5.1	9.3		7.2				
2/10/2022				4.9				6.2	2.4
2/11/2022						2.8	7.7		

		YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SA	YGWA-47 (bg)	YGWC-42
	6/1/2016	, -,	,		, ,	, 5,			, ,	
	6/2/2016									
	6/6/2016	1.2	1.8							
	6/7/2016			4.4	<1	5.2	56			
	6/8/2016							<1		
	7/25/2016							•		
	7/26/2016									
	7/27/2016	1.7	1.9	4.7	0.08 (J)					
	7/28/2016	1.7	1.5	4.7	0.00 (0)	5.1	57			
	8/1/2016					5.1	37	1.1		
	8/30/2016							1.1	160	980
	8/31/2016								100	960
	9/1/2016									
	9/2/2016									
	9/13/2016									
	9/14/2016									
	9/15/2016									
	9/16/2016		1.7	4.8						
	9/19/2016	1.8			0.08 (J)	4.8				
	9/20/2016						68	0.38 (J)		
	11/1/2016									
	11/2/2016				0.1 (J)					
	11/3/2016	0.69 (J)	1.9	5.3		5				
	11/4/2016									
	11/8/2016						79	0.39 (J)		
	11/14/2016								150	
	11/15/2016									
	11/16/2016									940
	11/28/2016									
	12/15/2016									
	1/10/2017									
	1/11/2017	<1	1.7	5.2						
	1/12/2017									
	1/13/2017				<1	4.3				
	1/16/2017						72			
	1/17/2017							<1		
:	2/21/2017									
:	2/22/2017									
	2/24/2017								120	
:	2/27/2017									940
:	2/28/2017									
:	3/1/2017	1.8	<1							
:	3/2/2017			5						
:	3/3/2017									
;	3/6/2017				<1	4.5				
;	3/7/2017									
;	3/8/2017							0.29 (J)		
	3/9/2017						69			
	4/26/2017	1.6	1.9		<1	4.9				
	4/27/2017									
	4/28/2017									
	5/1/2017									

	YGWA-18I (bg)	YGWA-18S (bg)		YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SA	YGWA-47 (bg)	YGWC-42
5/2/2017			5			60	0.29 (J)		
5/8/2017								120	
5/9/2017									
5/10/2017									1200
5/26/2017									
6/27/2017									
6/28/2017	<1	<1							
6/29/2017			5.2	<1	5.5				
6/30/2017									
7/7/2017							0.37 (J)		
7/10/2017						57			
7/11/2017								110	1300
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017					5.8				
10/4/2017		1.7	5.3	<1					
10/5/2017	1.6						<1		
10/6/2017									
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	1.5	6.1	0.13 (J)	7				
9/26/2018		-		- \-/			0.28 (J)		
9/27/2018						39.6	(0)		
10/1/2018						55.5			
10/1/2010									

		YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SA	YGWA-47 (bg)	YGWC-42
10/2/20	18									
2/25/20	19									
3/26/20	19									
3/27/20									65.9	831
3/28/20										
3/29/20										
4/1/2019										
4/2/2019				5.1		3.8				
4/3/2019		0.82 (J)	1.3		0.12 (J)					
4/4/2019							27.9	0.29 (J)		
6/12/20										
9/24/20	19					1				
9/25/20				5.5	<1					
9/26/20	19	0.64 (J)	1					0.23 (J)		
9/27/20	19						30.3			
10/8/20									52.3	
10/9/20	19									725
3/17/202	20								71.6	
3/18/202	20									
3/19/202	20									
3/24/202	20	<1	0.99 (J)	5.4	<1	3				
3/25/202	20									642
3/26/202	20						36.5	<1		
9/22/202	20								51.5	
9/23/202	20	0.53 (J)	1.1	5.1				<1		
9/24/202	20				<1	3.6	52.5			579
9/25/202	20									
10/7/202	20									
3/1/202	1								51.6	
3/2/202	1									
3/3/202	1	<1	1	5.2	<1			<1		
3/4/202	1					4.5	61.7 (M1)			537
8/19/202	21								52.6	
8/20/202	21									
8/25/202	21						68			500
8/26/202	21		1.2							
8/27/202	21	0.59 (J)		5.3	<1					
9/1/202	1					5		<1		
9/3/202	1									
9/27/202	21									
2/8/2022	2								50.9	
2/9/2022	2	0.51 (J)	1.1	4.8	<1	3.9				
2/10/202	22						78.7	<1		485
2/11/202	22									

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41	
6/1/2016										
6/2/2016										
6/6/2016										
6/7/2016										
6/8/2016										
7/25/2016										
7/26/2016										
7/27/2016										
7/28/2016										
8/1/2016										
8/30/2016										
8/31/2016	34	29								
9/1/2016			95							
9/2/2016				72						
9/13/2016										
9/14/2016					9.4					
9/15/2016										
9/16/2016										
9/19/2016										
9/20/2016										
11/1/2016										
11/2/2016										
11/3/2016										
11/4/2016					13					
11/8/2016										
11/14/2016				110						
11/15/2016			94							
11/16/2016	240									
11/28/2016		36								
12/15/2016					1.8					
1/10/2017										
1/11/2017										
1/12/2017										
1/13/2017										
1/16/2017					11					
1/17/2017										
2/21/2017										
2/22/2017		43								
2/24/2017	89									
2/27/2017			84							
2/28/2017				110						
3/1/2017										
3/2/2017										
3/3/2017					8.8					
3/6/2017										
3/7/2017										
3/8/2017										
3/9/2017										
4/26/2017										
4/27/2017										
4/28/2017					10					
5/1/2017										

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
5/2/2017		2 = (-3)			(-9)	(-9)	(-9)		
5/8/2017		60							
5/9/2017			91	130					
5/10/2017	100								
5/26/2017					12				
6/27/2017									
6/28/2017					11				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017	110								
7/13/2017			88	140					
7/17/2017		63							
9/22/2017				160					
9/29/2017				160					
10/3/2017					7.9				
10/4/2017									
10/5/2017									
10/6/2017				160					
10/10/2017									
10/11/2017			86	150		20			
10/12/2017	120						17	940	400
10/16/2017		62							
11/20/2017						24	71	980	
11/21/2017									430
1/10/2018							66		
1/11/2018						23			390
1/12/2018								880	
2/19/2018		64.6					57.2		414
2/20/2018						20.6		905	
4/2/2018									
4/3/2018						24.5	49.4	872	406
4/4/2018	160		76.5						
6/5/2018									
6/6/2018									
6/7/2018					8.8				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				144					
6/27/2018									357
6/28/2018						22	43.8	869	
8/6/2018		42.1							
8/7/2018						20.7	40.5	879	346
9/19/2018									
9/20/2018	247		84.1						
9/24/2018						21.2	39.7	872	358
9/25/2018									
9/26/2018				160					
9/27/2018									
10/1/2018					9.1				

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
10/2/2018		(-3)			(-3)	(-3)	(13)		
2/25/2019		42.1							
3/26/2019							34.3		
3/27/2019						17.7		851	
3/28/2019	181		82.8						258
3/29/2019					9				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				119					
6/12/2019		83.4							
9/24/2019					9.1				
9/25/2019									
9/26/2019			80	84.8					
9/27/2019									
10/8/2019		128							
10/9/2019	279					15	27.9	708	263
3/17/2020		98.6							
3/18/2020									
3/19/2020					12.4				
3/24/2020							25.2		
3/25/2020	164		76.1	58.8		14.3		483	214
3/26/2020									
9/22/2020		145							
9/23/2020					11.8				
9/24/2020			77			11.7	22.9		
9/25/2020	281							414	175
10/7/2020				18.2					
3/1/2021									
3/2/2021		156							
3/3/2021					10.6				
3/4/2021	328		75.1	6.3		12	21.5	356	117
8/19/2021									
8/20/2021		121							
8/25/2021									
8/26/2021						19.2		328	117
8/27/2021					16.7				
9/1/2021			79.8						
9/3/2021	50.5			13.8			21.3		
9/27/2021	56.5								
2/8/2022	133	107	73.9		40	14.6	17.9		109
2/9/2022					18			202	
2/10/2022				10.4				290	
2/11/2022				16.4					

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-5I (bg)
6/1/2016	150	54	120						
6/2/2016				160	130	36	96	46	66
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	135	48				50			
7/26/2016			94	177	141		92	54	78
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016		67	105						
9/14/2016	127			187			102		73
9/15/2016					153			54	
9/16/2016									
9/19/2016						35			
9/20/2016									
11/1/2016	75		44		92	<25			
11/2/2016				181			115	71	
11/3/2016									
11/4/2016		60							75
11/8/2016									
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017								45	
1/11/2017	148		107		159				
1/12/2017				202					86
1/13/2017							67		
1/16/2017		65				47			
1/17/2017									
2/21/2017						<25			
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017	182								
3/2/2017		61	98		117				
3/3/2017									
3/6/2017							159		
3/7/2017				257					108
3/8/2017								178	
3/9/2017									
4/26/2017	92				181	55		52	
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-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-5I (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	.20				.00		79		
6/30/2017						42	, 0	45	
7/7/2017						42		45	
7/10/2017									
7/11/2017									
7/11/2017									
7/17/2017									
9/22/2017									
9/29/2017		50	440	470					00
10/3/2017		58	119	170					89
10/4/2017	147				141	31			
10/5/2017							95	40	
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018			127						
6/6/2018		96		151					
6/7/2018					95		90		142
6/8/2018	158							114	
6/11/2018						59			
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									
9/25/2018									
9/26/2018				144			116		86
9/27/2018									
10/1/2018	138	60	117		165			50	
	. 50								

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-5I (bg)
10/2/2018						57			
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019		87	87						
3/29/2019								63	
4/1/2019	19 (J)				149	54			
4/2/2019									
4/3/2019				142			111		83
4/4/2019									
6/12/2019									
9/24/2019		54	124	129					79
9/25/2019	159				157	51	117	64	
9/26/2019									
9/27/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020		35						57	
3/19/2020	148		116		146	47			
3/24/2020				139					68
3/25/2020							146		
3/26/2020									
9/22/2020				104			83		75
9/23/2020	155	15	108		157				
9/24/2020						51			
9/25/2020								54	
10/7/2020									
3/1/2021						23			
3/2/2021				52				67	67
3/3/2021	111	39	99		137		80		
3/4/2021									
8/19/2021		44	105		144	50		54	
8/20/2021									
8/25/2021									
8/26/2021				123			93		86
8/27/2021	155								
9/1/2021									
9/3/2021									
9/27/2021									
2/8/2022	445		105		454				
2/9/2022	145	57	105	107	154			50	77
2/10/2022				127		00	100	56	77
2/11/2022						66	102		

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SA	YGWA-47 (bg)	YGWC-42
6/1/2016									
6/2/2016									
6/6/2016	120	58							
6/7/2016			28	38	60	130			
6/8/2016							66		
7/25/2016									
7/26/2016									
7/27/2016	94	35	74	74					
7/28/2016					81	119			
8/1/2016							56		
8/30/2016								319	1650
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		35	67						
9/19/2016	92	00	0,	45	68				
9/20/2016	32			45	00	132	53		
11/1/2016						132	55		
11/2/2016				53					
11/3/2016	104	48	41	55	61				
11/4/2016	104	40	41		01				
11/8/2016						146	58		
						140	36	200	
11/14/2016 11/15/2016								280	
									1420
11/16/2016									1420
11/28/2016									
12/15/2016									
1/10/2017	122	0E	104						
1/11/2017	133	95	104						
1/12/2017				40	70				
1/13/2017				46	76	104			
1/16/2017						194	50		
1/17/2017							56		
2/21/2017									
2/22/2017								100	
2/24/2017								162	1010
2/27/2017									1640
2/28/2017	110	70							
3/1/2017	119	79							
3/2/2017			77						
3/3/2017									
3/6/2017				164	167				
3/7/2017									
3/8/2017							192		
3/9/2017	100	00		0.4	50	288			
4/26/2017	162	36		34	50				
4/27/2017									
4/28/2017									
5/1/2017									

E/2/2017	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SA	YGWA-47 (bg)	YGWC-42
5/2/2017			142			221	113	101	
5/8/2017								194	
5/9/2017									
5/10/2017									1630
5/26/2017									
6/27/2017									
6/28/2017	98	45							
6/29/2017			53	68	94				
6/30/2017									
7/7/2017							46		
7/10/2017						123			
7/11/2017								193	1800
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017					149				
10/4/2017		45	61	54	143				
	104	45	01	54			40		
10/5/2017	104						48		
10/6/2017									
10/10/2017								175	
10/11/2017						100			
10/12/2017									1600
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018								192	
4/3/2018									
4/4/2018									1520
6/5/2018					109				
6/6/2018				79					
6/7/2018	68								
6/8/2018									
6/11/2018		74	70						
6/12/2018						115	79		
6/13/2018							· •		
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018								100	
9/19/2018								186	1010
9/20/2018									1240
9/24/2018									
9/25/2018	109	63	86	73	122				
9/26/2018							59		
9/27/2018						105			
10/1/2018									

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWC-24SA	YGWA-47 (bg)	YGWC-42
10/2/2018									
2/25/2019									
3/26/2019									
3/27/2019								170	1100
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			72		134				
4/3/2019	89	63		57					
4/4/2019						85	63		
6/12/2019									
9/24/2019					157				
9/25/2019			81	75					
9/26/2019	126	72					81		
9/27/2019						96			
10/8/2019								172	
10/9/2019									1170
3/17/2020								165	
3/18/2020									
3/19/2020									
3/24/2020	91	59	71	76	117				
3/25/2020									1200
3/26/2020						110	67		
9/22/2020								141	
9/23/2020	103	81	99				87		
9/24/2020				69	113	129			1060
9/25/2020									
10/7/2020									
3/1/2021								145	
3/2/2021									
3/3/2021	95	37	57	53			70		
3/4/2021					110	96			501
8/19/2021								134	
8/20/2021									
8/25/2021						141			886
8/26/2021		31							
8/27/2021	112		93	67					
9/1/2021					137		96		
9/3/2021									
9/27/2021									
2/8/2022								151	
2/9/2022	103	60	81	72	131				
2/10/2022						180	78		882
2/11/2022									

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41	
6/1/2016										
6/2/2016										
6/6/2016										
6/7/2016										
6/8/2016										
7/25/2016										
7/26/2016										
7/27/2016										
7/28/2016										
8/1/2016										
8/30/2016										
8/31/2016	80	209								
9/1/2016			228							
9/2/2016				243						
9/13/2016										
9/14/2016					152					
9/15/2016										
9/16/2016										
9/19/2016										
9/20/2016										
11/1/2016										
11/2/2016										
11/3/2016										
11/4/2016					148					
11/8/2016										
11/14/2016				272						
11/15/2016			211	2,2						
11/16/2016	112									
11/28/2016	112	102								
12/15/2016		102			191					
1/10/2017					191					
1/11/2017										
1/12/2017										
1/13/2017					100					
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										

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
5/2/2017					, ,	,	, ,,		
5/8/2017		145							
5/9/2017			154	303					
5/10/2017	203								
5/26/2017					223				
6/27/2017									
6/28/2017					166				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017	238								
7/13/2017			192	282					
7/17/2017		185							
9/22/2017				309					
9/29/2017				273					
10/3/2017					153				
10/4/2017									
10/5/2017									
10/6/2017				287					
10/10/2017									
10/11/2017			177	264		68			
10/12/2017	287						74	1360	636
10/16/2017		218							
11/20/2017						139	179	1390	
11/21/2017									706
1/10/2018							140		
1/11/2018						153			701
1/12/2018								1400	
2/19/2018		173					119		630
2/20/2018						87		1300	
4/2/2018									
4/3/2018						85	106	1390	660
4/4/2018	292		174						
6/5/2018									
6/6/2018									
6/7/2018					146				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				292					
6/27/2018									575
6/28/2018						88	112	1310	
8/6/2018		158							
8/7/2018						89	103	1340	574
9/19/2018									
9/20/2018	434		186						
9/24/2018						82	107	1400	588
9/25/2018									
9/26/2018				277					
9/27/2018									
10/1/2018					155				

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
10/2/2018									
2/25/2019		92							
3/26/2019							90		
3/27/2019						75		1190	
3/28/2019	323		164						372
3/29/2019					150				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				240					
6/12/2019		226							
9/24/2019					146				
9/25/2019									
9/26/2019			192	198					
9/27/2019									
10/8/2019		276							
10/9/2019	501					119	98	1100	440
3/17/2020		185							
3/18/2020									
3/19/2020					148				
3/24/2020							84		
3/25/2020	352		130	164		158		883	428
3/26/2020									
9/22/2020		281							
9/23/2020					161				
9/24/2020			187			170	77		
9/25/2020	494							664	307
10/7/2020				137					
3/1/2021									
3/2/2021		296							
3/3/2021					138				
3/4/2021	592		145	69		168	57	600	224
8/19/2021									
8/20/2021		254							
8/25/2021									
8/26/2021						249		562	225
8/27/2021					150				
9/1/2021			163						
9/3/2021				89			88		
9/27/2021	158								
2/8/2022	294	283	164			248	93		226
2/9/2022					156				
2/10/2022								541	
2/11/2022				81					

# FIGURE E.

## Appendix III Trend Tests - Significant Results

	Plant Yates	Client: Southern Company	Data: Plant Y	ates AMA-	R6 Print	ed 3/28	3/2022,	5:51 PM	1			
Constituent	Well		Slope	Calc.	Critical	Sig.	N	%NDs	Normality	<u>Xform</u>	<u>Alpha</u>	Method
Boron (mg/L)	YGWA-40 (bg	1)	-0.01631	-64	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-38		-3.924	-83	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-41		-2.621	-68	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-42		-1.573	-62	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-43		0.6123	69	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (t	og)	0.1305	91	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (I	og)	-0.07569	-96	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-21I (b	g)	1.174	97	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (b	g)	-1.819	-87	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWC-38		-29.53	-91	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWC-42		-11.96	-71	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg	1)	-1.677	-83	-53	Yes	15	6.667	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)		3.816	78	58	Yes	16	6.25	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (b	g)	0.7001	77	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg	)	-0.0958	-81	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18I (b	g)	-0.1558	-69	-68	Yes	18	22.22	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg	1)	-2.833	-59	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg	1)	-9.797	-77	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (b	g)	-3.238	-119	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg	)	0.0955	100	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWC-38		-157.5	-94	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWC-42		-111.1	-76	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg	1)	-19.14	-92	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)		18.82	81	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (b	g)	0.9733	103	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (b	g)	0.4345	86	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3I (bg	)	1.183	74	68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-40 (bg	1)	-13.89	-55	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5D (b	g)	-15.08	-97	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-38		-210	-75	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-41		-119.1	-83	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-42		-162.2	-79	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-43		86.07	65	53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-47 (bg	1)	-13.78	-75	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	GWA-2 (bg)		24.56	61	58	Yes	16	0	n/a	n/a	0.01	NP

### Appendix III Trend Tests - All Results

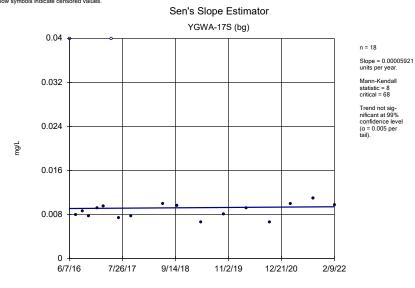
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 3/28/2022, 5:51 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	<u>N</u>	%NDs	Normality	<u>Xform</u>	<u>Alpha</u>	Method
Boron (mg/L)	YGWA-17S (bg)	0.00005921	8	68	No	18	11.11	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-26	-68	No	18	77.78	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	0.0001172	14	68	No	18	22.22	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-11	-68	No	18	88.89	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	0	-46	-68	No	18	61.11	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-39 (bg)	0.007949	41	53	No	15	6.667	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)	-0.01631	-64	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-4I (bg)	0	-5	-68	No	18	66.67	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0003037	26	68	No	18	11.11	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	0	-32	-68	No	18	61.11	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-23S	-0.03367	-16	-68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-38	-3.924	-83	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-41	-2.621	-68	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-42	-1.573	-62	-53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-43	0.6123	69	53	Yes	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-47 (bg)	-0.0007235	-42	-53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-2 (bg)	0	17	58	No	16	62.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-14S (bg)	-0.0004307	-27	-68	No	18	11.11	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0.0003452	22	68	No	18	33.33	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1I (bg)	0	-13	-68	No	18	72.22	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-2I (bg)	0	-10	-68	No	18	77.78	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-22	-68	No	18	83.33	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	-8	-68	No	18	55.56	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	-19	-68	No	18	88.89	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.1305	91	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18I (bg)	0.02072	10	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.07569	-96	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-20S (bg)	0.04138	51	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-21I (bg)	1.174	97	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-39 (bg)	0.9186	40	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-40 (bg)	-0.7684	-45	-53	No	15	6.667	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-4I (bg)	0.009311	4	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-1.819	-87	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5I (bg)	0.06854	66	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWC-38	-29.53	-91	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWC-42	-11.96	-71	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-1.677	-83	-53	Yes	15	6.667	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	3.816	78	58	Yes	16	6.25	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-14S (bg)	-0.00868	-30	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.7001	77	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.0958	-81	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-2I (bg)	0.08578	11	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-30I (bg)	0.006518	17	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3D (bg)	0.5552	59	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3I (bg)	0.6025	52	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-17S (bg)	0.07043	47	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18I (bg)	-0.1558	-69	-68	Yes	18	22.22		n/a	0.01	NP
Sulfate (mg/L)	YGWA-18S (bg)	-0.1518	-54	-68	No	18	11.11		n/a	0.01	NP
Sulfate (mg/L)	YGWA-20S (bg)	0	36	68	No	18	66.67		n/a	0.01	NP
Sulfate (mg/L)	YGWA-21I (bg)	-0.2086	-31	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-2.833	-59	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-9.797	-77	-53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-4I (bg)	0.0866	30	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-3.238	-119	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.0955	100	68	Yes	18	0	n/a	n/a	0.01	NP
Canaco (mg/L)	· OTA-01 (bg)	3.0333	.00	50	162		Ū	ı ır a	.ı/a	J.U I	.41

#### Appendix III Trend Tests - All Results

Data: Plant Yates AMA-R6 Printed 3/28/2022, 5:51 PM Constituent Calc. Critical Sig. N %NDs Normality Xform <u>Alpha</u> Method YGWC-38 -157.5 -94 -53 15 0 Sulfate (mg/L) Yes n/a 0.01 NP n/a Sulfate (mg/L) YGWC-42 -111.1 -76 -53 Yes 15 0 n/a n/a 0.01 NP YGWA-47 (bg) NP Sulfate (mg/L) -19.14 -92 -53 Yes 15 0 0.01 n/a n/a Sulfate (mg/L) GWA-2 (bg) 18.82 81 58 16 0 0.01 NP Sulfate (mg/L) YGWA-14S (bg) 0.04468 68 18 0 0.01 NP 14 No n/a n/a Sulfate (mg/L) YGWA-1D (bg) 0.9733 103 18 0 0.01 ΝP YGWA-1I (bg) NP Sulfate (mg/L) -0.1386-20 -68 No 18 0 n/a n/a 0.01 Sulfate (mg/L) YGWA-2I (bg) 0.7686 No 18 0 NP Sulfate (mg/L) YGWA-30I (bg) -0.03944 -14 -68 No 18 11.1 n/a n/a 0.01 NP Sulfate (mg/L) YGWA-3D (bg) 0.4345 86 Yes 18 0 n/a 0.01 ΝP NP Sulfate (mg/L) YGWA-3I (bg) 1.183 74 68 Yes 18 0 n/a n/a 0.01 Total Dissolved Solids (mg/L) YGWA-17S (bg) 4.594 38 18 0 0.01 NP No YGWA-18I (bg) Total Dissolved Solids (mg/L) -0.8196 18 0 0.01 NP -15 -68 No n/a n/a Total Dissolved Solids (mg/L) YGWA-18S (bg) 0.4481 12 No 0 n/a n/a 0.01 NP Total Dissolved Solids (mg/L) YGWA-20S (bg) 3 147 36 68 No 18 0 n/a n/a 0.01 NP Total Dissolved Solids (mg/L) YGWA-21I (bg) 12.83 63 18 0 0.01 NP No n/a n/a Total Dissolved Solids (mg/L) YGWA-39 (bg) 28.42 53 53 No 15 0 n/a n/a 0.01 NP Total Dissolved Solids (mg/L) YGWA-40 (bg) -13.89 -53 15 0 0.01 NP -55 Yes n/a n/a Total Dissolved Solids (mg/L) YGWA-4I (bg) 0.5267 6 68 No 18 0 n/a n/a 0.01 NP Total Dissolved Solids (mg/L) YGWA-5D (ba) -15.08 -97 -68 18 0 n/a n/a 0.01 NP Yes Total Dissolved Solids (mg/L) YGWA-5I (bg) 0 -4 -68 No 18 0 n/a n/a 0.01 NP YGWC-38 -210 -75 NP Total Dissolved Solids (mg/L) -53 Yes 15 0 n/a 0.01 n/a Total Dissolved Solids (mg/L) YGWC-41 -119.1 -83 -53 15 0 ΝP YGWC-42 0 NP Total Dissolved Solids (mg/L) -162.2 -79 -53 Yes 15 n/a n/a 0.01 Total Dissolved Solids (mg/L) YGWC-43 86.07 65 53 15 0 n/a 0.01 ΝP Total Dissolved Solids (mg/L) YGWA-47 (bg) -13.78 -75 -53 15 0 0.01 NP Yes n/a n/a Total Dissolved Solids (mg/L) 0 ΝP GWA-2 (bg) Yes 16 Total Dissolved Solids (mg/L) YGWA-14S (bg) 0.8555 0 NP 20 68 18 0.01 No n/a n/a Total Dissolved Solids (mg/L) YGWA-1D (bg) 0.2702 18 0 0.01 NP Total Dissolved Solids (mg/L) YGWA-1I (bg) -2.568 -31 -68 No 18 0 n/a n/a 0.01 NP NP Total Dissolved Solids (mg/L) YGWA-2I (bg) -2.032 -29 No 18 0 0.01 Total Dissolved Solids (mg/L) YGWA-30I (bg) 2 779 NP 37 68 No 18 11.11 n/a n/a 0.01 Total Dissolved Solids (mg/L) 0.01 NP YGWA-3D (bg) 1.473 15 68 No 18 0 n/a n/a Total Dissolved Solids (mg/L) YGWA-3I (bg) 1.513 13 68 18 0 0.01 NP No n/a n/a

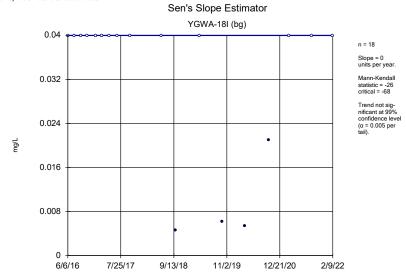




Constituent: Boron Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

#### Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG Hollow symbols indicate censored values Sen's Slope Estimator YGWA-18S (bg) 0.04 n = 18 Slope = 0.0001172 units per year. 0.032 Mann-Kendal statistic = 14 critical = 68 Trend not sig-nificant at 99% confidence level 0.024 $(\alpha = 0.005 per$ mg/L 0.016 0.008 6/6/16 7/25/17 9/13/18 11/2/19 12/21/20 2/9/22

Constituent: Boron Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

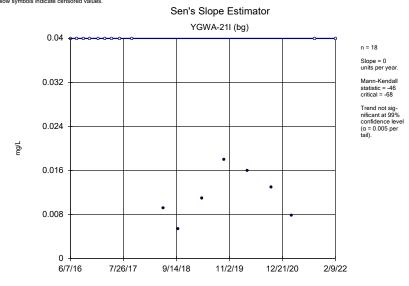


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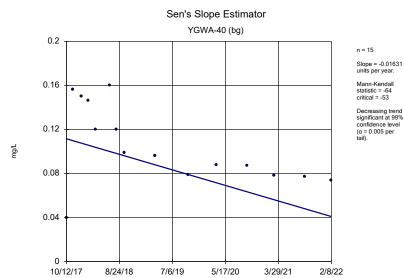


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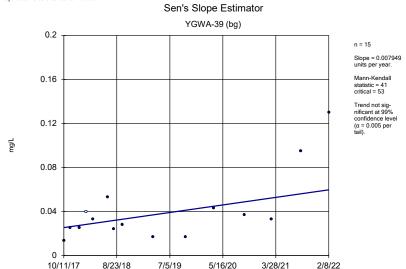
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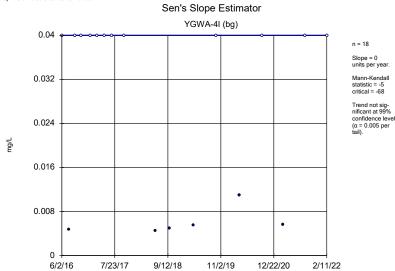


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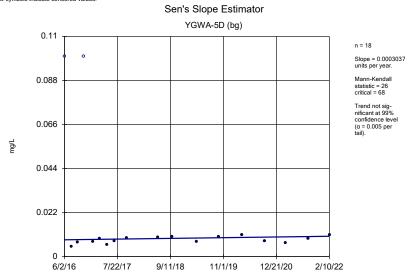
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6





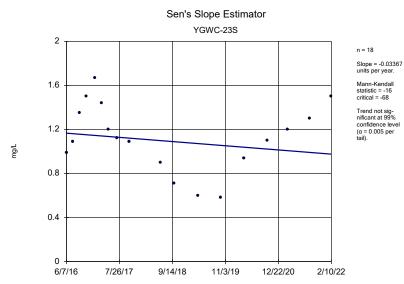
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



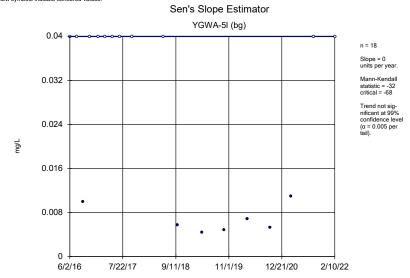
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

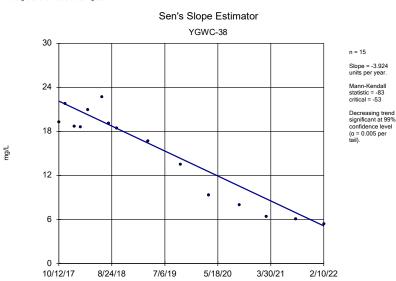


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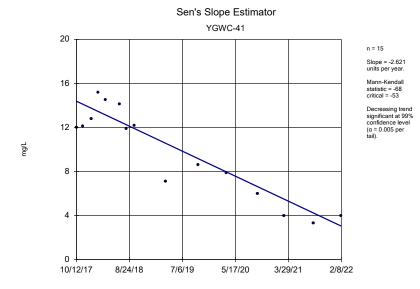
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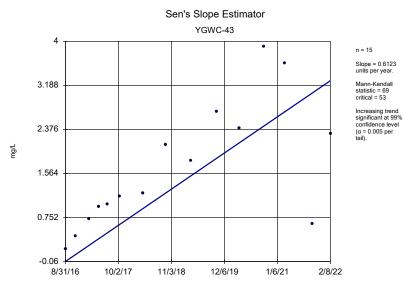
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



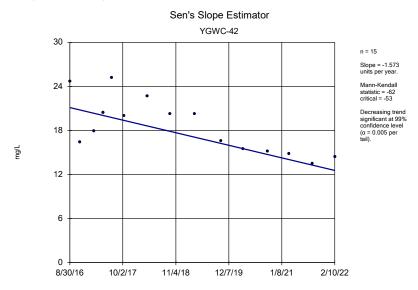
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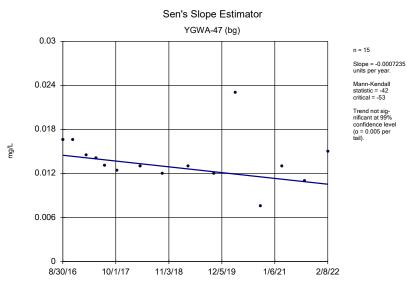
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

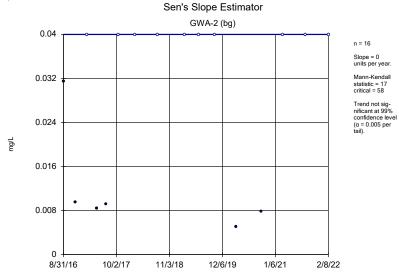


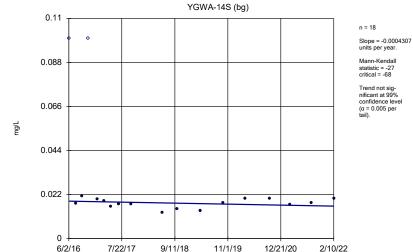
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



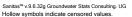


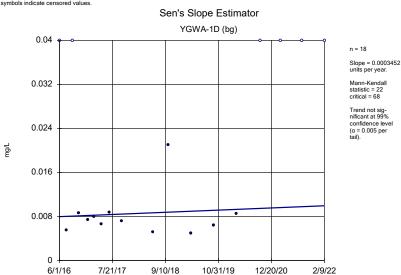


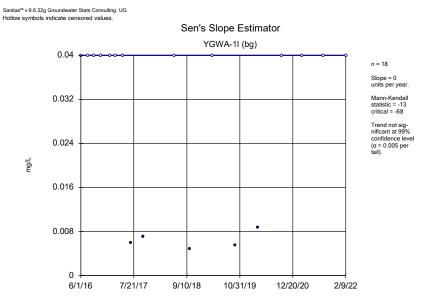
Sen's Slope Estimator

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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Constituent: Boron Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



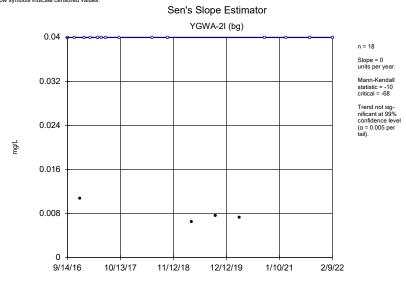




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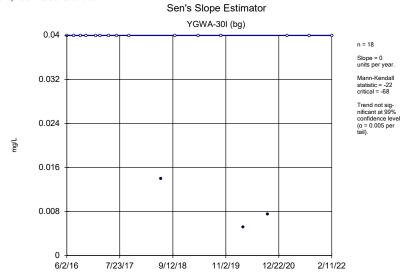




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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

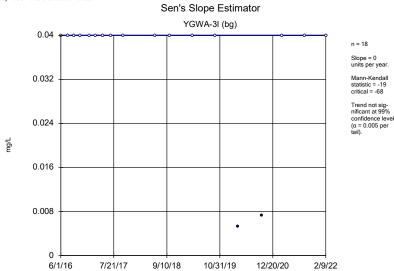
#### Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG Hollow symbols indicate censored values Sen's Slope Estimator YGWA-3D (bg) 0.04 n = 18 Slope = 0 units per year. 0.032 Mann-Kendall critical = -68 Trend not sig-nificant at 99% confidence level 0.024 $(\alpha = 0.005 per$ mg/L 0.016 0.008 6/2/16 7/22/17 9/11/18 10/31/19 12/20/20 2/9/22

Constituent: Boron Analysis Run 3/28/2022 5:49 PM View: Appendix III - Trend Tests
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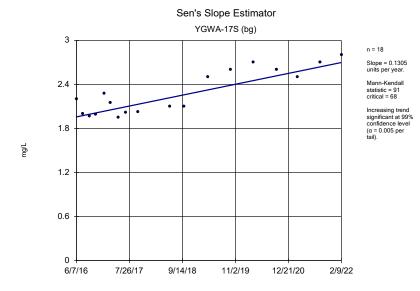


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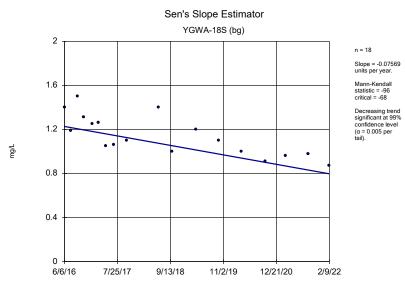




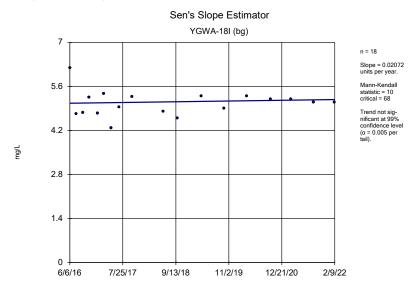
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



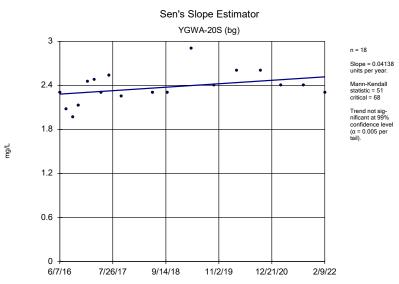
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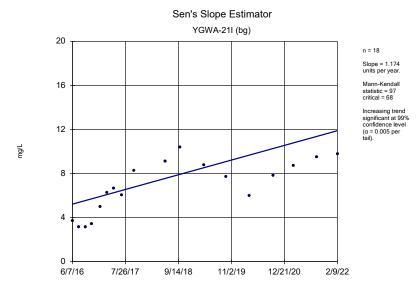
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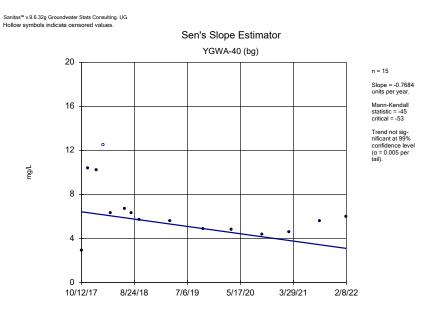
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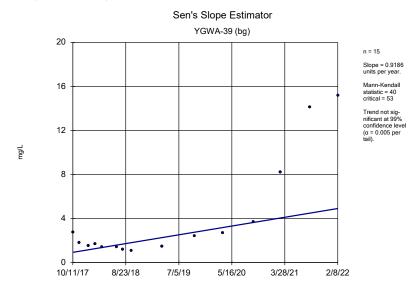
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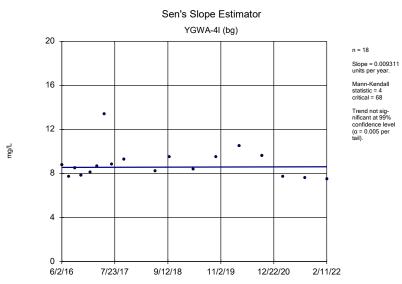
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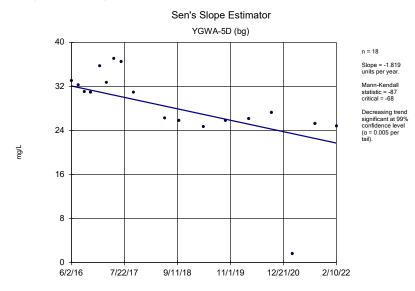
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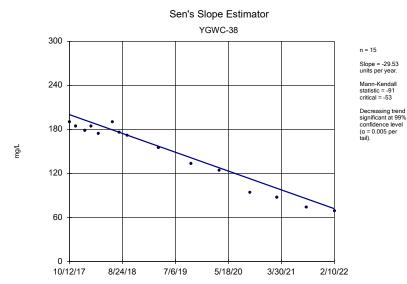


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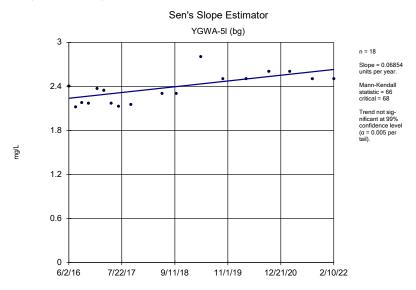


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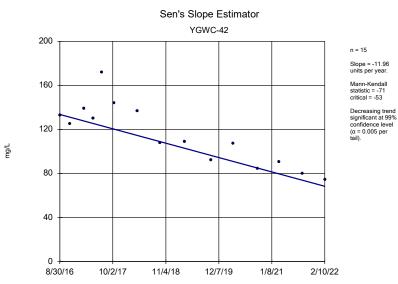




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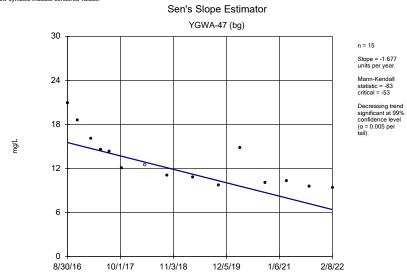


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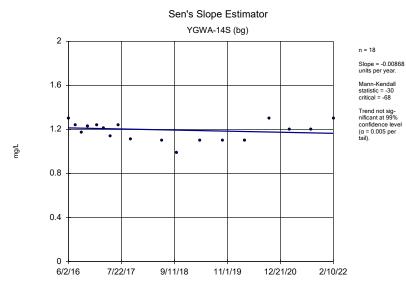
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Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



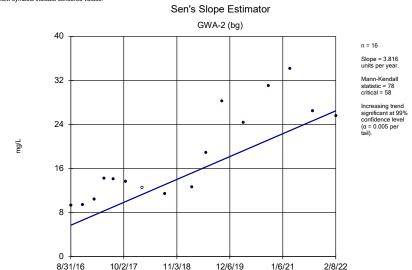
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Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG

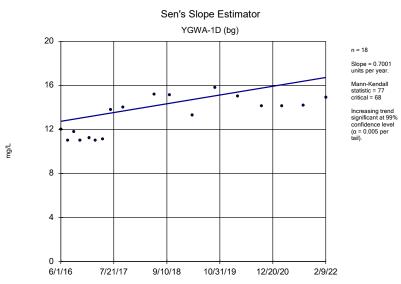


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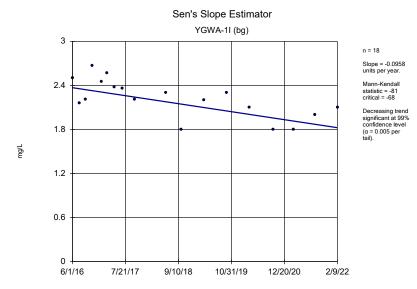
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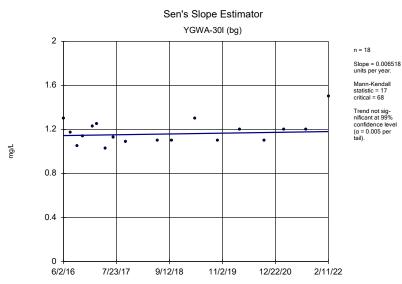
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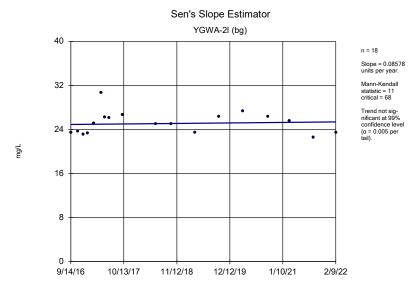
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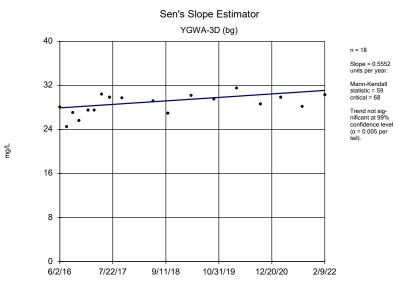
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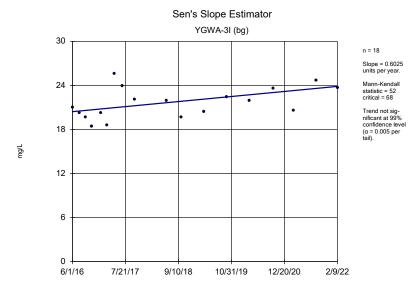
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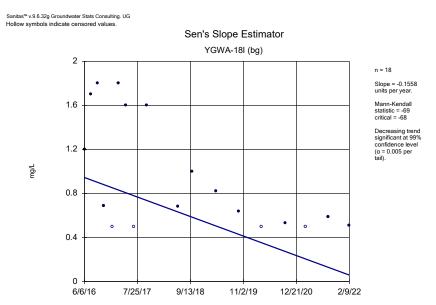
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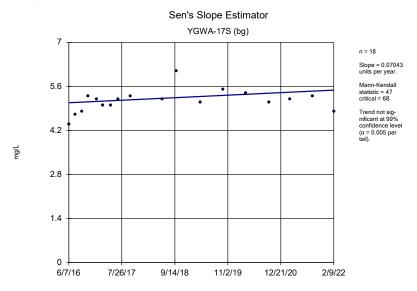
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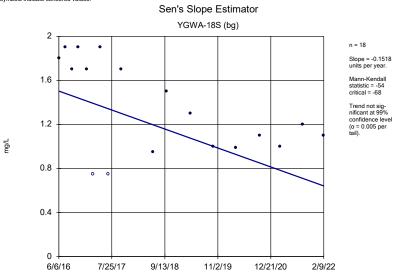


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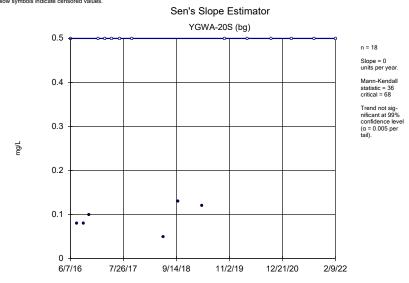
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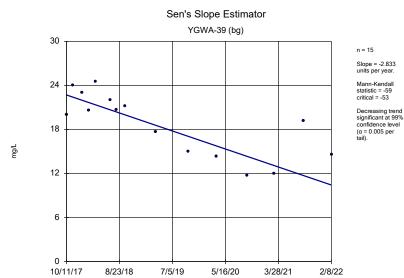


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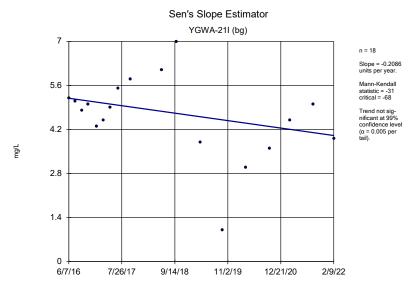
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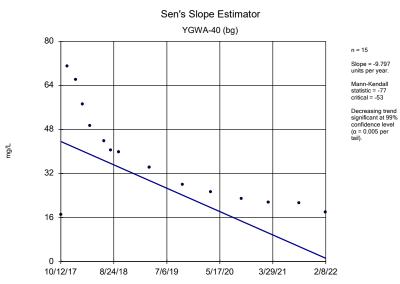
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



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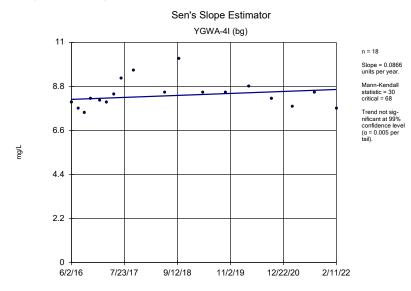


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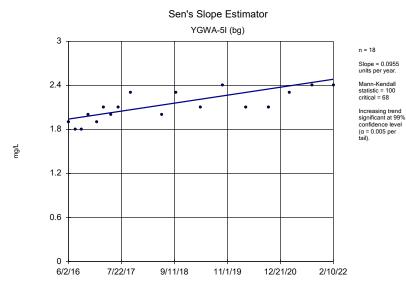


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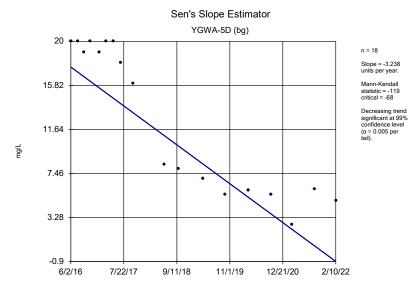
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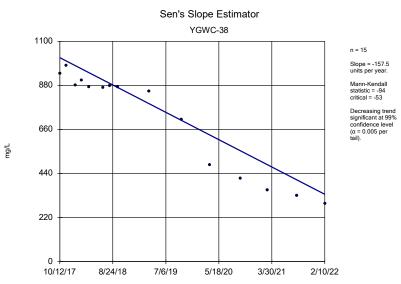
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



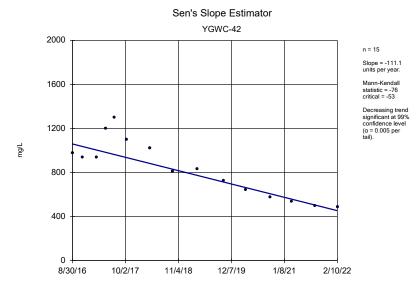
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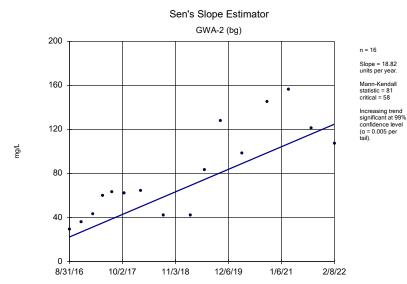
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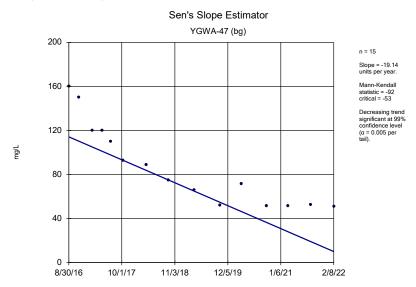
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



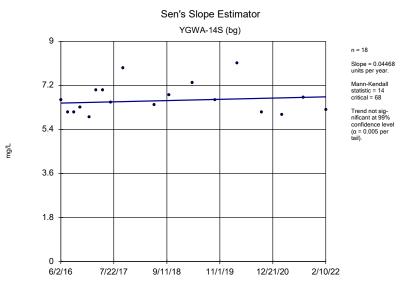
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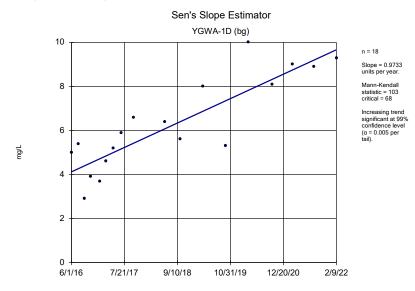
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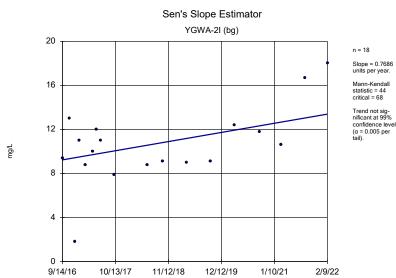
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



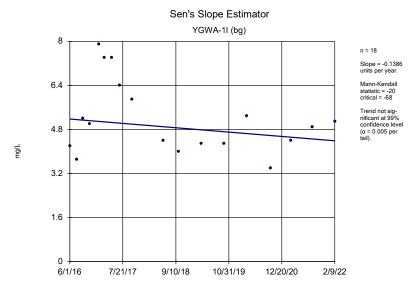
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



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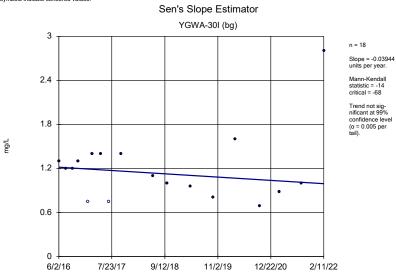


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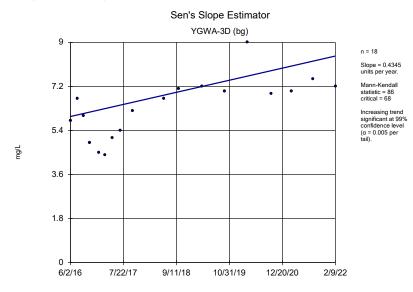


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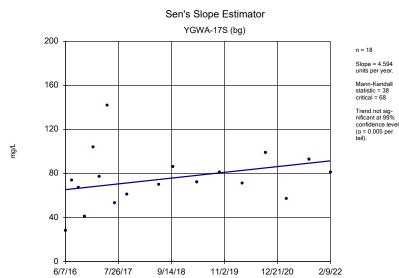
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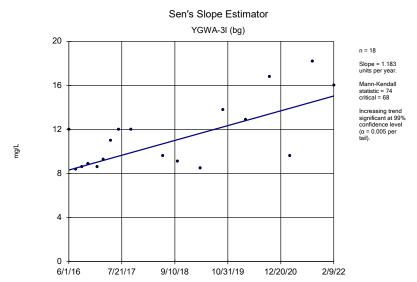
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



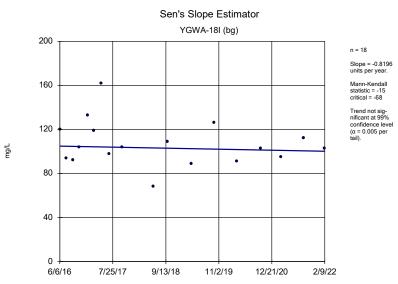
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



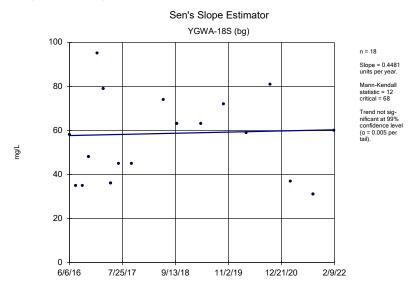
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



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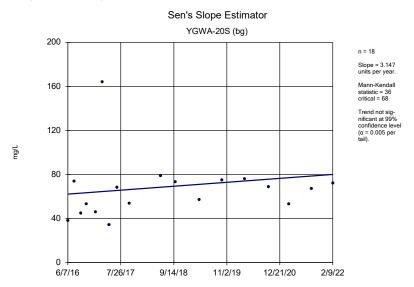
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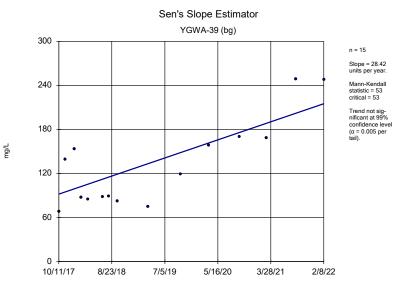
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

## Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG Sen's Slope Estimator YGWA-21I (bg) 200 n = 18 Slope = 12.83 units per year. Mann-Kendall 160 statistic = 63 critical = 68 Trend not sig-nificant at 99% confidence level 120 $(\alpha = 0.005 per$ mg/L 80 40 6/7/16 7/26/17 9/14/18 11/2/19 12/21/20 2/9/22

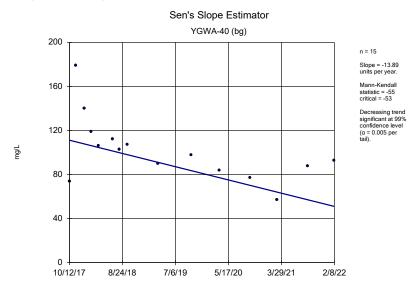
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



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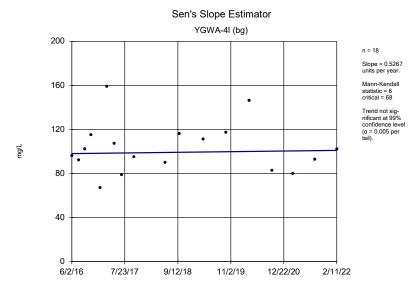
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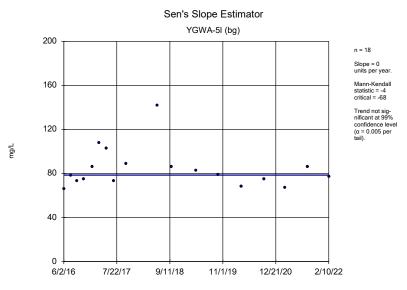
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

## Sen's Slope Estimator YGWA-5D (bg) 300 n = 18 Slope = -15.08 units per year. 240 Mann-Kendall statistic = -97 critical = -68 Decreasing trend significant at 99% confidence level 180 $(\alpha = 0.005 per$ mg/L 120 60 0 6/2/16 7/22/17 9/11/18 11/1/19 12/21/20 2/10/22

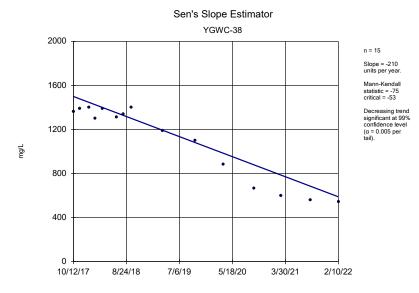
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



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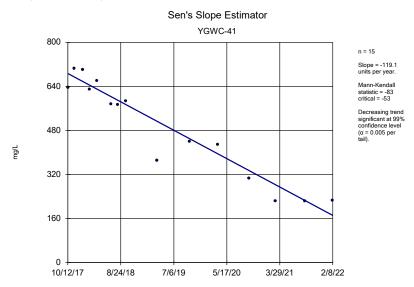
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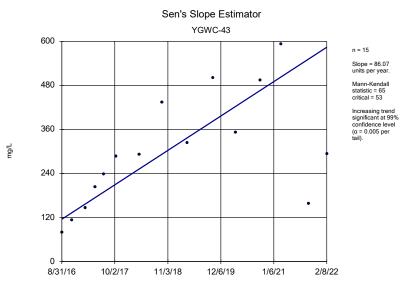
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

## Sen's Slope Estimator YGWC-42 2000 Slope = -162.2 units per year. 1600 Mann-Kendall critical = -53 Decreasing trend significant at 99% confidence level 1200 $(\alpha = 0.005 per$ mg/L 800 400 8/30/16 10/2/17 11/4/18 12/7/19 1/8/21 2/10/22

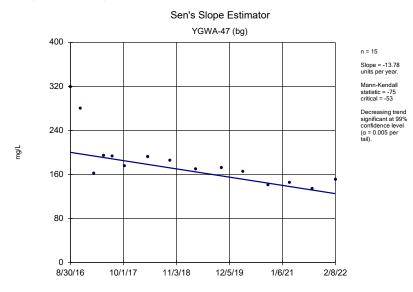
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Total Dissolved Solids Analysis Run 3/28/2022 5:50 PM View: Appendix III - Trend Tests
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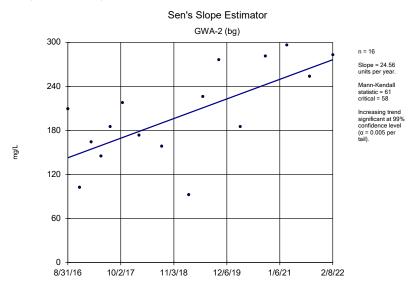


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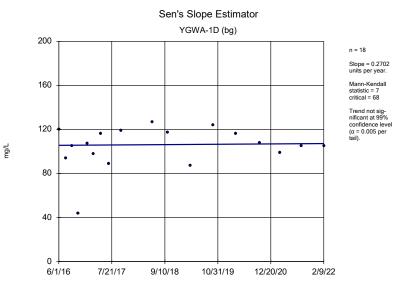
## Sanitas™ v.9.6.32g Groundwater Stats Consulting. UG Sen's Slope Estimator YGWA-14S (bg) 200 n = 18 Slope = 0.8555 units per year. Mann-Kendall 160 statistic = 20 critical = 68 Trend not sig-nificant at 99% confidence level 120 (α = 0.005 per tail). mg/L 80 40 6/2/16 7/22/17 9/11/18 11/1/19 12/21/20 2/10/22

Constituent: Total Dissolved Solids Analysis Run 3/28/2022 5:50 PM View: Appendix III - Trend Tests

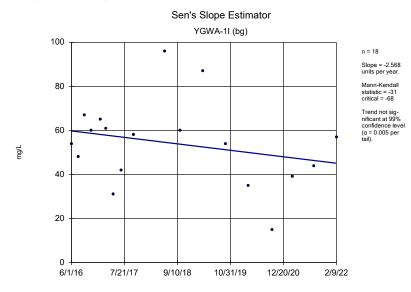
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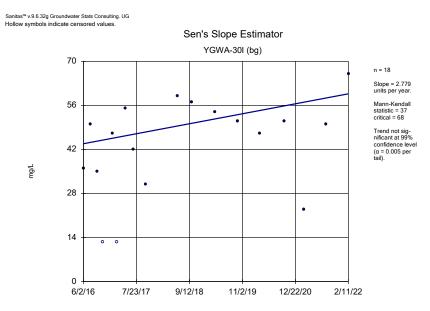
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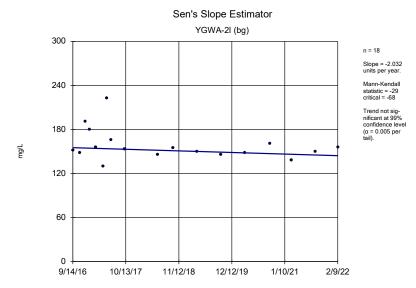
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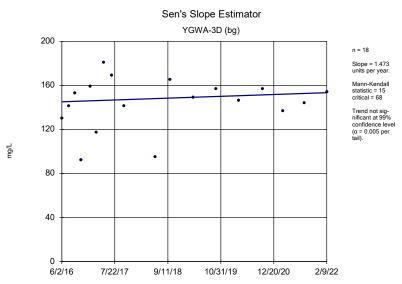
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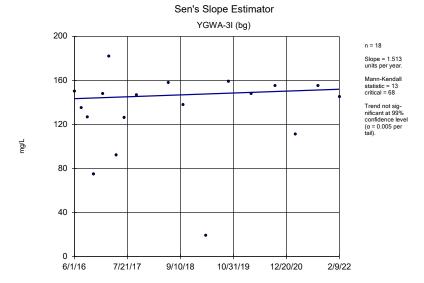
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6





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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Total Dissolved Solids Analysis Run 3/28/2022 5:50 PM 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 4/19/2022, 5:31 PM

Constituent	Well	Upper Lim	. Lower Lim.	<u>Date</u>	Observ	. <u>Sig. Bg N</u>	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	<u>Alpha</u>	Method
Antimony (mg/L)	n/a	0.0047	n/a	n/a	n/a	n/a 353	n/a	n/a	87.25	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a 401	n/a	n/a	75.06	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	n/a	0.071	n/a	n/a	n/a	n/a 401	n/a	n/a	2.743	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a 385	n/a	n/a	80.26	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.00063	n/a	n/a	n/a	n/a 385	n/a	n/a	95.58	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0093	n/a	n/a	n/a	n/a 353	n/a	n/a	79.6	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.035	n/a	n/a	n/a	n/a 396	n/a	n/a	69.19	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	6.92	n/a	n/a	n/a	n/a 380	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	n/a	0.68	n/a	n/a	n/a	n/a 400	n/a	n/a	67.5	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	n/a	0.0013	n/a	n/a	n/a	n/a 355	n/a	n/a	84.51	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	n/a	0.03	n/a	n/a	n/a	n/a 380	n/a	n/a	26.32	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	n/a 309	n/a	n/a	93.2	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.014	n/a	n/a	n/a	n/a 344	n/a	n/a	60.17	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a 383	n/a	n/a	91.91	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a 319	n/a	n/a	96.87	n/a	n/a	NaN	NP Inter(NDs)

# 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		0.071	2					
Beryllium, Total (mg/L)	0.004		0.0005	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		0.0002	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 4/19/2022, 5:39 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	<u>N</u>	<u>Mean</u>	Std. Dev.	%NDs	ND Adj.	Transform	<u>Alpha</u>	Method
Beryllium (mg/L)	YGWC-38	0.005381	0.004128	0.004	Yes	16	0.004494	0.001209	0	None	x^4	0.01	Param.
Selenium (mg/L)	YGWC-38	0.249	0.073	0.05	Yes	16	0.1613	0.07941	0	None	No	0.01	NP (normality)
Selenium (mg/L)	PZ-37	0.2916	0.2149	0.05	Yes	13	0.2532	0.05155	0	None	No	0.01	Param.

## Confidence Intervals - All Results

Client: Southern Company

Data: Plant Yates AMA-R6

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Std. Dev. Constituent Well Lower Lim. Compliance <u>N</u> %NDs ND Adj Transform Alpha Method YAMW-1 0.025 No 0.005681 0.008573 NP (NDs) Antimony (mg/L) 0.006 57.14 None No 0.008 Kaplan-Meier In(x) Antimony (mg/L) YAMW-4 0.001179 0.0004933 0.006 No 5 0.001674 0.001225 40 0.01 Param. YAMW-5 0.003 0.00033 0.006 80 NP (NDs) No 5 0.002466 0.001194 Kaplan-Meier No 0.031 Antimony (ma/L) Antimony (mg/L) YGWC-23S 0.003 0.00085 0.006 No 18 0.002592 0.0009432 83.33 Kaplan-Meier No 0.01 NP (NDs) Antimony (mg/L) YGWC-38 0.003 0.00063 0.006 No 15 0.002403 0.001051 73.33 Kaplan-Meier No 0.01 NP (NDs) Antimony (mg/L) YGWC-41 0.003 0.0014 0.006 No 15 0.002893 0.0004131 93.33 Kaplan-Meier 0.01 NP (NDs) YGWC-42 0.003 0.00053 0.006 0.002835 NP (NDs) Antimony (mg/L) No 15 0.0006378 93.33 None No 0.01 Antimony (mg/L) YGWC-43 0.003 0.00031 0.006 No 15 0.002821 0.0006946 93.33 0.01 NP (NDs) YGWC-49 0.003 Antimony (mg/L) 0.0011 0.006 No 15 0.002709 0.0007763 86.67 None No 0.01 NP (NDs) Antimony (mg/L) PZ-35 0.003 0.00039 0.006 No 0.002627 0.0009865 85.71 None 0.008 NP (NDs) PZ-37 0.003 0.0014 0.002673 NP (NDs) Antimony (mg/L) 0.006 No 13 0.0008263 84.62 None No 0.01 0.002883 YGWC-24SA 0.0009 Antimony (mg/L) 0.003 0.006 No 18 0.000495 94.44 0.01 NP (NDs) YGWC-36A 0.0041 NP (normality) 0.0014 0.006 18 0.006144 Antimony (mg/L) No 0.004 44.44 None No 0.01 Arsenic (mg/L) YAMW-1 0.005 0.0023 0.01 No 0.004662 0.0009546 87.5 No 0.004 NP (NDs) Arsenic (ma/L) YAMW-4 0.002818 0.0001089 0.01 Nο 5 0.002878 0.00206 40 Kanlan-Meier No 0.01 Param 0.002618 0.0006151 0.01 No 0.001924 40 Kaplan-Meier No 0.01 Arsenic (mg/L) Param. Arsenic (mg/L) YGWC-23S 0.005 0.0025 0.01 No 20 0.004685 0.0009922 90 Kaplan-Meier No 0.01 NP (NDs) Arsenic (mg/L) YGWC-38 0.002013 0.000835 0.01 No 0.001654 0.001397 12.5 None 0.01 Param. In(x) Arsenic (mg/L) YGWC-41 0.005 0.00062 0.01 No 16 0.002964 0.002135 50 None No 0.01 NP (normality) 0.01 Arsenic (mg/L) YGWC-42 0.002976 0.00149 0.01 No 16 0.002311 0.001241 12.5 None sgrt(x) Param. Arsenic (mg/L) YGWC-43 0.005 0.00099 0.01 No 16 0.004025 0.001777 75 No 0.01 NP (NDs) None YGWC-49 0.005 0.001 0.01 NP (NDs) No 15 0.004164 0.001732 80 0.01 Arsenic (mg/L) None No 0.003556 PZ-35 0.005 0.00069 0.01 No 0.002016 62.5 NP (NDs) Arsenic (mg/L) No 0.004 PZ-37 0.005 0.01 0.002357 NP (normality) Arsenic (mg/L) 0.0008 No 13 0.001857 30.77 None No 0.01 Arsenic (mg/L) YGWC-24SA 0.005 0.0024 0.01 No 20 0.004695 0.0009501 90 None No 0.01 NP (NDs) YGWC-36A 0.005 0.0014 0.01 No 20 0.003957 0.00186 75 0.01 NP (NDs) Arsenic (mg/L) None No YAMW-1 0.0704 0.0286 2 No 0.0495 0.01972 0 0.01 Barium (mg/L) No Param 0.009472 2 YAMW-2 0.006728 5 0.0008185 Barium (mg/L) No 0.0081 0 0.01 None No Param. YAMW-4 0.0286 0.0005986 2 No 0.01086 0.008882 0 Barium (mg/L) sqrt(x) 0.01 YAMW-5 0.05689 2 Barium (mg/L) 0.02631 No 5 0.0416 0.009127 0 None No 0.01 Param. Barium (mg/L) YGWC-23S 0.04635 0.03106 2 No 20 0.03871 0.01347 0 0.01 Param. YGWC-38 0.02311 0.01783 2 16 Barium (mg/L) Nο 0.02047 0.004062 n None Nο 0.01 Param Barium (mg/L) YGWC-41 0.02906 0.02034 2 No 0.0247 0.006706 0 None No 0.01 Param. YGWC-42 0.04468 0.03077 2 16 0.03773 0.01069 Barium (mg/L) No 0 None No 0.01 Param Barium (mg/L) YGWC-43 0.034 0.01762 2 No 0.01259 0 No 0.01 Param. None Barium (mg/L) YGWC-49 0.07861 0.0694 2 No 15 0.07401 0.0068 0 None No 0.01 Param. Barium (mg/L) PZ-35 0.074 0.032 2 No 8 0.04763 0.01732 0 None No 0.004 NP (normality) Barium (mg/L) P7-37 0.05511 0.03813 2 No 13 0.04662 0.01142 0 No 0.01 Param 0.025 2 0 Barium (mg/L) YGWC-24SA 0.019 No 20 0.02103 0.003574 No 0.01 NP (normality) None Barium (mg/L) YGWC-36A 0.04377 0.03278 2 No 20 0.03828 0.009683 0 No 0.01 Param. None YAMW-1 0.0005 0.000058 0.004 0.0003354 0.0001982 50 0.004 NP (normality) Beryllium (mg/L) No None No Beryllium (mg/L) YAMW-2 0.0005 0.000051 0.004 No 5 0.000238 0.0002393 40 No 0.031 NP (normality) Bervllium (ma/L) YAMW-5 0.00017 0.000092 0.004 No 6 0.000131 0.00002839 0 0.01 Param. No None Beryllium (mg/L) YGWC-23S 0.00023 0.000081 0.004 No 20 0.0002108 0.000176 25 No 0.01 NP (normality) None YGWC-38 Bervllium (ma/L) 0.005381 0.004128 0.004 16 0.004494 Yes 0.001209 0 x^4 0.01 Param. None YGWC-41 0.0037 0.0009737 Beryllium (mg/L) 0.0016 0.004 No 16 0.0028 0 0.01 NP (normality) YGWC-42 0.0005 0.000067 0.004 16 0.0003416 0.0002115 0.01 NP (NDs) Beryllium (mg/L) No 62.5 None No YGWC-43 0.00053 0.00029 0.004 No 16 0.0004075 0.0001423 37.5 NP (normality) Beryllium (mg/L) None No 0.01 Beryllium (mg/L) YGWC-49 0.00015 0.0001 0.004 No 15 0.00014 0.0001009 6.667 No 0.01 NP (normality) None PZ-35 Beryllium (mg/L) 0.000479 0.000269 0.004 No 0.0004122 0.000117 22.22 0.01 Param. PZ-37 0.0004733 0.0004062 0.0002152 Beryllium (mg/L) 0.0002084 0.004 No 13 15.38 Kaplan-Meier sart(x) 0.01 Param. Beryllium (mg/L) YGWC-24SA 0.00016 0.0001 0.004 No 20 0.000178 0.0001413 15 None No 0.01 NP (normality) Beryllium (mg/L) YGWC-36A 0.0003309 0.000206 0.004 No 20 0.0002685 0.0001099 5 None No 0.01 Param. YAMW-1 Cadmium (mg/L) 0.0005 0.005 No 0.0002938 0.0001734 37.5 No 0.004 NP (normality) YAMW-5 0.0002574 0.0001586 0.000208 0.0000295 Param Cadmium (mg/L) 0.005 Nο n None Nο 0.01

## Confidence Intervals - All Results

Data: Plant Yates AMA-R6 Client: Southern Company Printed 4/19/2022, 5:39 PM Std. Dev. Constituent Well Compliance %NDs ND Adj Transform Alpha Method Upper Lim. Lower Lim. N Cadmium (mg/L) YGWC-23S 0.0005 0.00007 0.005 20 0.0004785 0.00009615 95 NP (NDs) No None No 0.01 0.0007141 Cadmium (mg/L) YGWC-38 0.0029 0.0013 0.005 No 16 0.002194 0 None No 0.01 NP (normality) YGWC-41 0.0005 0.00015 0.005 0.0001516 Cadmium (mg/L) 16 0.0002913 31.25 0.01 NP (normality) No None No Cadmium (mg/L) YGWC-42 0.0005 0.0002 0.005 No 16 0.0003919 0.0001608 50 No 0.01 NP (normality) Cadmium (mg/L) YGWC-49 0.0005 0.00007 0.005 No 15 0.0004713 0.000111 93.33 0.01 NP (NDs) None No Cadmium (mg/L) PZ-35 0.0005 0.00016 0.005 No 8 0.0004575 0.0001202 NP (NDs) 87.5 None No 0.004 PZ-37 0.0007228 0.000308 Cadmium (mg/L) 0.005 No 13 0.0005438 0.0002744 15.38 Kaplan-Meier No 0.01 Param. Cadmium (mg/L) YGWC-36A 0.0005 0.00017 0.005 No 20 0.000269 0.0001585 30 NP (normality) YAMW-1 Chromium (mg/L) 0.005 0.00058 0.1 No 0.001563 0.001702 16.67 None No 0.0155 NP (normality) Chromium (mg/L) YAMW-2 0.002983 0.00002161 0.1 No 0.002202 0.001797 20 Kaplan-Meier No 0.01 Param. YAMW-4 0.005 0.004114 NP (NDs) Chromium (mg/L) 0.00057 0.1 No 5 0.001981 80 Kaplan-Meier No 0.031 YAMW-5 0.005 0.00432 80 NP (NDs) Chromium (mg/L) 0.0016 0.1 No 0.001521 Kaplan-Meier 0.031 YGWC-23S 0.005 Chromium (mg/L) 0.0008 16 0.003509 0.002005 Kaplan-Meier No NP (NDs) 0.1 No 62.5 0.01 Chromium (mg/L) YGWC-38 0.005 0.00065 0.1 No 0.004447 0.001512 87.5 Kaplan-Meier No 0.01 NP (NDs) Chromium (mg/L) YGWC-41 0.005 0.00039 0.1 Nο 16 0.004712 0.001152 93 75 None Nο 0.01 NP (NDs) Chromium (mg/L) YGWC-42 0.005 0.1 No 0.004208 81.25 0.01 NP (NDs) No YGWC-43 Chromium (mg/L) 0.005 0.00071 0.1 No 16 0.003911 0.001949 75 None No 0.01 NP (NDs) Chromium (mg/L) YGWC-49 0.0021 0.0014 0.1 No 0.001971 0.0009059 7.143 None No 0.01 NP (normality) Chromium (mg/L) PZ-35 0.005 0.0006 0.1 No 6 0.002185 0.002192 33.33 None No 0.0155 NP (normality) Chromium (mg/L) PZ-37 0.005 0.0017 0.1 No 13 0.0042 0.001532 76.92 None No 0.01 NP (NDs) Chromium (mg/L) YGWC-24SA 0.005 0.0011 0.1 No 16 0.004259 0.001594 81.25 None Nο 0.01 NP (NDs) YGWC-36A 0.005 NP (NDs) Chromium (mg/L) 0.0013 0.1 No 16 0.004155 0.001615 75 No 0.01 None 0.02551 YAMW-1 0.007375 0.035 No 9 0.01644 0.009964 Cobalt (mg/L) 22.22 Kaplan-Meier No 0.01 Param. YAMW-2 0.002488 0.035 Cobalt (mg/L) 0.0002417 No 5 0.001154 0.0007745 0 None sqrt(x) 0.01 Param. Cobalt (mg/L) YAMW-4 0.001001 0.0001991 0.035 No 5 0.0006 0.0002393 0 No 0.01 Param. Cobalt (mg/L) YAMW-5 0.005 0.00077 0.035 No 5 0.004154 0.001892 80 0.031 NP (NDs) None No Cobalt (mg/L) YGWC-41 0.005 0.00069 0.035 No 16 0.003899 0.001976 75 NP (NDs) No 0.01 0.0025 YGWC-42 0.0017 0.035 0.002119 0.000862 NP (normality) Cobalt (mg/L) 16 0.01 No 6.25 None No YGWC-43 0.005 0.0015 0.035 0.003184 0.001786 NP (normality) Cobalt (mg/L) No 16 43.75 0.01 Cobalt (mg/L) YGWC-49 0.005 0.0006 0.003833 NP (NDs) 0.035 No 15 0.002003 73.33 None No 0.01 Cobalt (mg/L) PZ-35 0.0059 0.005 0.035 No 0.005112 0.0003182 87.5 0.004 NP (NDs) P7-37 0.01174 0.004444 0.008092 Cobalt (mg/L) 0.035 Nο 13 0.004907 n None Nο 0.01 Param Cobalt (mg/L) YGWC-36A 0.005 0.00086 0.035 No 0.003885 0.001984 75 None No 0.01 NP (NDs) YAMW-1 0.7655 0.2653 0.2105 Combined Radium 226 + 228 (pCi/L) 6.92 No 0.5154 0 None No 0.01 Param Combined Radium 226 + 228 (pCi/L) YAMW-2 0.9255 -0.1666 6.92 No 0.3795 0.3259 0 No 0.01 Param. None Combined Radium 226 + 228 (pCi/L) YAMW-4 1.466 0.02573 6.92 No 5 0.746 0.4298 0 None No 0.01 Param. Combined Radium 226 + 228 (pCi/L) YAMW-5 1.602 0.4665 6.92 No 5 1.034 0.3389 0 None No 0.01 Param. Combined Radium 226 + 228 (pCi/L) YGWC-23S 0.7741 0.3606 6.92 No 20 0.5674 0.3641 0 Nο 0.01 Param. None Combined Radium 226 + 228 (pCi/L) YGWC-38 1.242 0.4977 0 0.5941 6.92 No 16 0.9179 0.01 No Param. None Combined Radium 226 + 228 (pCi/L) YGWC-41 1.234 0.589 6.92 No 16 0.9627 0.5633 0 x^(1/3) 0.01 Param. None Combined Radium 226 + 228 (pCi/L) YGWC-42 2.714 1.139 6.92 16 1.926 1.21 0 0.01 No None No Param. Combined Radium 226 + 228 (pCi/L) YGWC-43 3.591 1 399 6.92 No 16 2.649 1.818 0 0.01 Param. None sqrt(x) Combined Radium 226 + 228 (pCi/L) YGWC-49 1.09 0.4612 6.92 No 15 0.7755 0.4638 0 0.01 No Param. None Combined Radium 226 + 228 (pCi/L) P7-35 1.106 0.1853 6.92 No 0.6456 0.3875 0 No 0.01 None Param. Combined Radium 226 + 228 (pCi/L) PZ-37 1.995 1.306 6.92 13 0.4631 0 No 1.651 No 0.01 Param. None 0.7755 Combined Radium 226 + 228 (pCi/L) YGWC-24SA 0.4933 6.92 20 0.2484 No 0.6344 0 0.01 Combined Radium 226 + 228 (pCi/L) YGWC-36A 1.04 0.5384 6.92 No 20 0.7893 0.4419 0 None No 0.01 Param. Fluoride (mg/L) YAMW-4 0.14 No 5 0.116 0.02191 60 NP (NDs) 0.1 4 None No 0.031 Fluoride (ma/L) YGWC-23S 0.12 0.049 4 No 21 0.09519 0.01926 85.71 None 0.01 NP (NDs) Nο YGWC-38 Fluoride (mg/L) 0.21 0.034 4 No 17 0.1544 0.112 0.01 NP (NDs) YGWC-41 17 NP (NDs) Fluoride (mg/L) 0.11 0.1 4 No 0.1006 0.002425 88.24 None No 0.01 Fluoride (mg/L) YGWC-42 0.07 No 17 0.08771 0.02476 76.47 None 0.01 NP (NDs) Fluoride (mg/L) YGWC-43 0.1065 0.05855 4 No 17 0.1041 0.05169 23.53 Kaplan-Meier  $x^{(1/3)}$ 0.01 Param. YGWC-49 Fluoride (mg/L) 0.14 0.09 4 No 0.09938 0.02516 62.5 NP (NDs) P7-37 0.31 4 Nο 13 0 1654 0 1131 NP (NDs) Fluoride (ma/L) 0.1 69 23 None Nο 0.01

## Confidence Intervals - All Results

Client: Southern Company

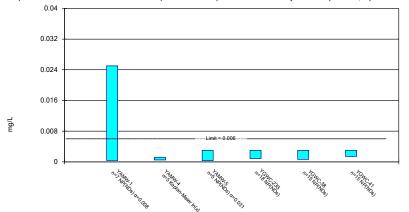
Data: Plant Yates AMA-R6

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Std. Dev. Constituent Well Lower Lim. Compliance <u>N</u> %NDs ND Adj Transform Alpha Method Upper Lim. Sig. Mean YGWC-24SA 0.1 No 21 0.09671 0.01461 90.48 0.01 NP (NDs) Fluoride (mg/L) None No Fluoride (mg/L) YGWC-36A 0.1 0.09 No 21 0.09314 0.03137 66.67 None No 0.01 NP (NDs) YAMW-1 0.001 0.00019 0.015 0.0008843 0.0003062 85.71 NP (NDs) Lead (mg/L) No 0.008 None No Lead (mg/L) YAMW-2 0.001 0.00008 0.015 No 0.000638 0.0004958 60 No 0.031 NP (NDs) Lead (mg/L) YAMW-4 0.0006106 1.2e-7 0.015 No 5 0.0005832 0.0004119 40 Kaplan-Meier No 0.01 Param. Lead (mg/L) YAMW-5 0.0001361 0.00003504 0.015 No 5 0.0004448 0.0005074 40 Kaplan-Meier In(x) 0.01 Param. YGWC-23S 0.001 0.00044 0.015 18 0.0008237 NP (NDs) Lead (mg/L) No 0.0003468 77.78 Kaplan-Meier No 0.01 Lead (mg/L) YGWC-38 0.001 0.0001 0.015 No 16 0.0008313 0.0003628 81.25 0.01 NP (NDs) 0.0011 Lead (mg/L) YGWC-41 0.00012 0.015 No 16 0.0007848 0.0004016 68.75 None No 0.01 NP (NDs) Lead (mg/L) YGWC-42 0.001 0.00009 0.015 No 0.0007744 0.0004047 75 None No 0.01 NP (NDs) NP (NDs) YGWC-43 0.001 0.00008 0.015 16 0.0008847 0.0003151 Lead (mg/L) No 87.5 None Nο 0.01 YGWC-49 0.000059 0.015 0.0009373 0.000243 Lead (mg/L) 0.001 No 15 93.33 0.01 NP (NDs) PZ-35 0.001 0.000087 0.0007481 0.015 0.0004305 NP (NDs) Lead (mg/L) No 71.43 None No 0.008 Lead (mg/L) PZ-37 0.001 0.000088 0.015 No 0.0006672 0.0004396 61.54 No 0.01 NP (NDs) Lead (mg/L) YGWC-24SA 0.001 0.00036 0.015 Nο 18 0.0009118 0.0002619 88 89 None Nο 0.01 NP (NDs) YGWC-36A 0.0004876 0.0001631 0.015 No 0.0004303 22.22 Kaplan-Meier 0.01 Param. Lead (mg/L) sart(x) 0.02035 Lithium (mg/L) YAMW-1 0.005228 0.04 No 0.01279 0.007132 12.5 None No 0.01 Param. Lithium (mg/L) YAMW-4 0.04078 0.01402 0.04 No 5 0.0274 0.007987 0 None No 0.01 Param. Lithium (mg/L) YAMW-5 0.01705 0.01295 0.04 No 5 0.015 0.001225 0 None Nο 0.01 Param Lithium (mg/L) YGWC-23S 0.0029 0.0018 0.04 No 20 0.002893 5 None No 0.01 NP (normality) Lithium (mg/L) YGWC-38 0.008794 0.007443 0.04 No 16 0.008119 0.001038 0 None Nο 0.01 Param. YGWC-41 0.0044 0.0023 0.04 NP (normality) Lithium (mg/L) No 16 0.00405 0.003054 6.25 No 0.01 None Lithium (mg/L) YGWC-42 0.04879 0.03226 0.04 No 16 0.04053 0.0127 0 0.01 Param. No YGWC-43 0.01839 0.01168 0 Lithium (mg/L) 0.04 No 16 0.01503 0.005157 None No 0.01 Param. Lithium (mg/L) YGWC-49 0.0038 0.0035 0.04 No 15 0.003693 0.0002314 0 None No 0.01 NP (normality) Lithium (mg/L) PZ-35 0.015 0.001 0.04 No 0.00435 0.005458 12.5 0.004 NP (normality) None Nο Lithium (mg/L) P7-37 0.02955 0.02194 0.04 No 0.02575 0.005122 7.692 0.01 Param. 13 No 0.006428 Lithium (mg/L) YGWC-36A 0.00297 20 0.005019 0.003162 0.04 No 5 0.01 Param. None sart(x) YGWC-23S 0.0002 0.00015 0.002 0.0001899 0.00002849 86.67 NP (NDs) Mercury (mg/L) No 15 No 0.01 YGWC-38 0.0002 0.00008 13 0.0001782 NP (NDs) Mercury (mg/L) 0.002 No 0.00005386 84.62 None No 0.01 Mercury (mg/L) YGWC-41 0.0002 0.00006 0.002 No 0.0001892 0.00003883 92.31 0.01 NP (NDs) YGWC-42 0.0002 0.000048 0.0001883 0.00004216 NP (NDs) Mercury (mg/L) 0.002 Nο 13 92 31 None Nο 0.01 Mercury (mg/L) YGWC-43 0.0002 0.00009 0.002 No 0.0001802 0.00004906 84.62 No 0.01 NP (NDs) None NP (NDs) YGWC-49 0.0002 0.00014 0.002 12 0.0001834 0.00004223 Mercury (mg/L) No 83.33 None Nο 0.01 Mercury (mg/L) 0.0002 0.00006 0.002 No 0.0001892 0.00003883 92.31 0.01 NP (NDs) Molybdenum (mg/L) YAMW-1 0.004175 0.0009024 0.1 No 0.003665 0.003321 16.67 Kaplan-Meier sqrt(x) 0.01 Param. Molybdenum (mg/L) YAMW-4 0.008881 0.004799 0.1 No 5 0.00684 0.001218 0 None Nο 0.01 Param. Molybdenum (mg/L) YGWC-42 0.01 0.00085 0.1 No 16 0.004692 0.004295 37.5 Nο 0.01 NP (normality) YGWC-43 Molybdenum (mg/L) 0.01 0.0012 0.1 No 16 0.005481 0.004286 0.01 NP (normality) 43.75 None No Molybdenum (mg/L) YGWC-49 0.01 0.0007 0.1 No 14 0.009336 0.002486 92.86 No 0.01 NP (NDs) Molybdenum (mg/L) PZ-35 0.01 0.0019 0.1 0.00865 0.003307 83.33 0.0155 NP (NDs) No None No Molybdenum (mg/L) P7-37 0.01 0.0015 0.1 No 13 0.004931 0.004184 38.46 No 0.01 NP (normality) Molvbdenum (ma/L) YGWC-36A 0.01 0.0025 0.1 No 16 0.007437 0.003629 62.5 0.01 NP (NDs) No None Selenium (mg/L) YAMW-1 0.005 0.0019 0.05 No 8 0.004125 0.001273 62.5 No 0.004 NP (NDs) None YAMW-4 0.0183 0.0002687 0.05 6 0.01097 0.007869 Param. Selenium (ma/L) No 33.33 Kaplan-Meier sart(x) 0.01 0.05067 YAMW-5 0.06572 0.03336 0.05 0.01337 0 Selenium (mg/L) No x^2 0.01 YGWC-23S 0.0392 0.02767 0.05 No 20 0.03344 0.01015 0 0.01 Selenium (mg/L) None No Param. YGWC-38 0.249 Selenium (ma/L) 0.073 0.05 Yes 16 0.1613 0.07941 0 No 0.01 NP (normality) Selenium (mg/L) YGWC-41 0.06255 0.04042 0.05 No 16 0.05149 0.01701 0 Nο 0.01 Param. None YGWC-42 0.05555 Selenium (mg/L) 0.04084 0.05 No 16 0.04819 0.0113 0 0.01 Param. YGWC-49 0.008701 0.006765 15 0.007733 Selenium (mg/L) 0.05 No 0.001429 6.667 None No 0.01 Param. Selenium (mg/L) PZ-35 0.005 0.0016 0.05 No 0.004325 0.001305 75 None No 0.004 NP (NDs) Selenium (mg/L) PZ-37 0.2916 0.2149 0.05 Yes 13 0.2532 0.05155 0 No 0.01 Param. Selenium (mg/L) YGWC-36A 0.002616 0.00179 0.05 No 20 0.00344 0.001421 40 Kaplan-Meie 0.01 Thallium (mg/L) YGWC-49 0.001 0.00009 0.002 Nο 0.00093 0.0002524 NP (NDs) 13 92 31 None Nο 0.01

## Parametric and Non-Parametric (NP) Confidence Interval



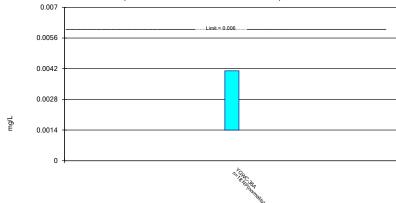


Constituent: Antimony Analysis Run 4/19/2022 5:36 PM View: Appendix IV 

## Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

## Non-Parametric Confidence Interval

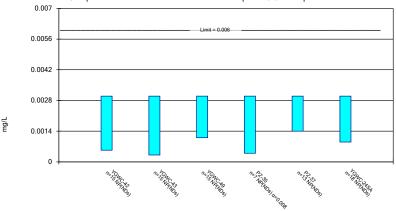
# Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 4/19/2022 5:36 PM View: Appendix IV 

## Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

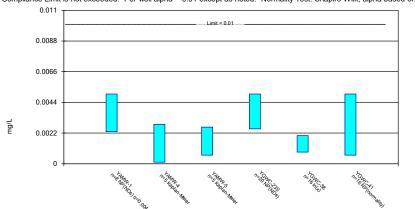


Constituent: Antimony Analysis Run 4/19/2022 5:36 PM View: Appendix IV 

## Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

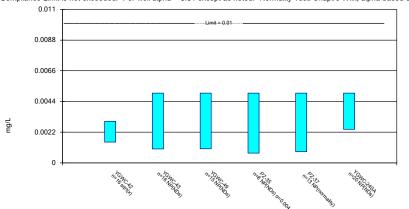
## Parametric and Non-Parametric (NP) Confidence Interval

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.



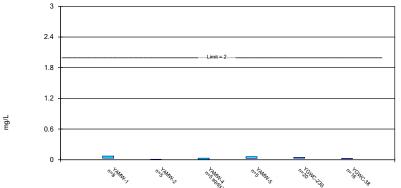
Constituent: Arsenic Analysis Run 4/19/2022 5:36 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

## Parametric Confidence Interval

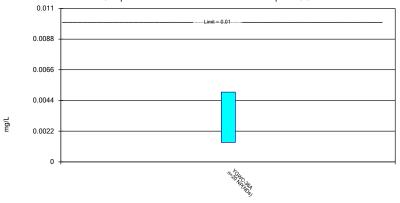
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 4/19/2022 5:36 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

## Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



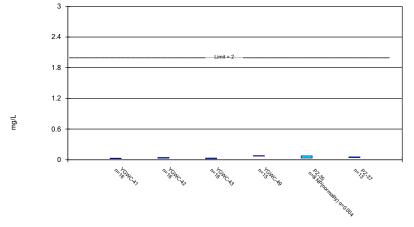
Constituent: Arsenic Analysis Run 4/19/2022 5:36 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

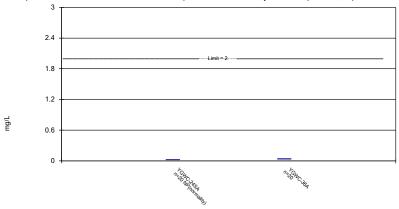
## Parametric and Non-Parametric (NP) Confidence Interval

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. Normality Test: Shapiro Wilk, alpha based on n.



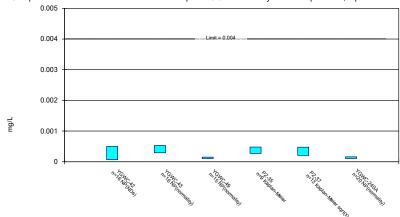
Constituent: Barium Analysis Run 4/19/2022 5:36 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

## Parametric and Non-Parametric (NP) Confidence Interval

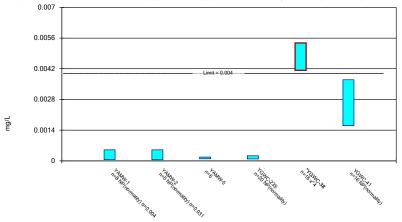
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 4/19/2022 5:36 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

## Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.\* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

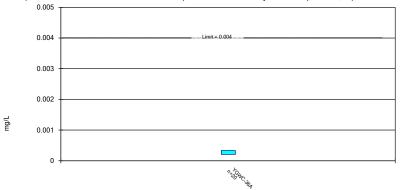


Constituent: Beryllium Analysis Run 4/19/2022 5:36 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

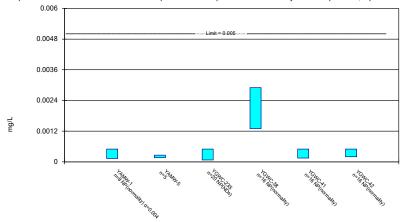
## Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



## Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

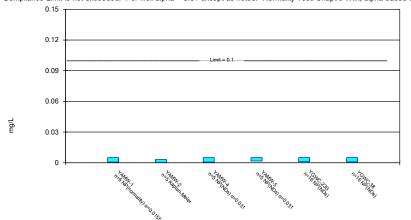


Constituent: Cadmium Analysis Run 4/19/2022 5:36 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

## Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

## Parametric and Non-Parametric (NP) Confidence Interval

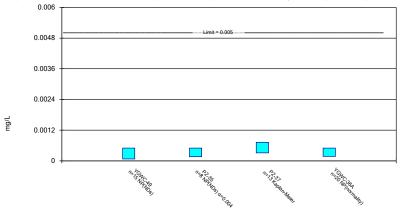
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 4/19/2022 5:36 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

## Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

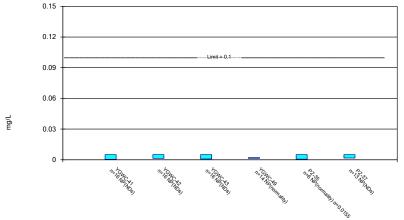


Constituent: Cadmium Analysis Run 4/19/2022 5:36 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

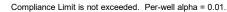
## Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

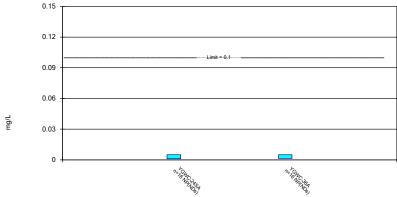
## Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



## Non-Parametric Confidence Interval



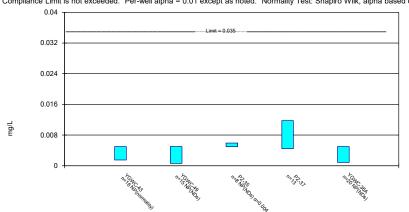


Constituent: Chromium Analysis Run 4/19/2022 5:36 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

## Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

## Parametric and Non-Parametric (NP) Confidence Interval

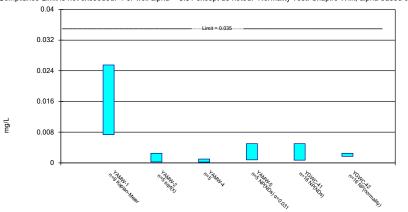
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



# Constituent: Cobalt Analysis Run 4/19/2022 5:36 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

## Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



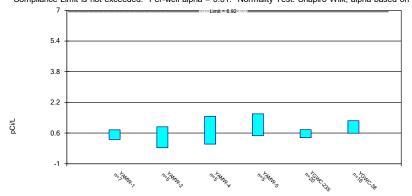
Constituent: Cobalt Analysis Run 4/19/2022 5:36 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

## Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

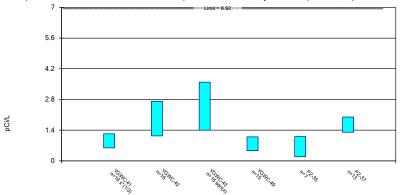
## Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



## Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



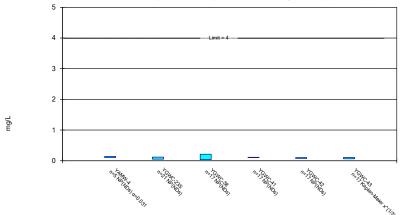
Constituent: Combined Radium 226 + 228 Analysis Run 4/19/2022 5:36 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j 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.

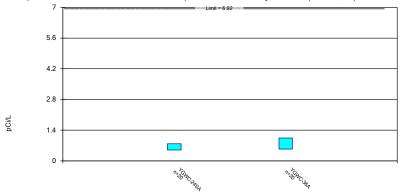


Constituent: Fluoride Analysis Run 4/19/2022 5:36 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

## Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



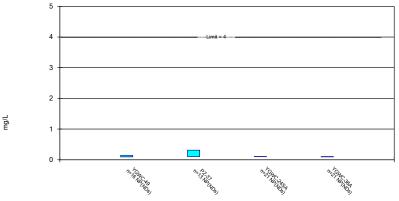
Constituent: Combined Radium 226 + 228 Analysis Run 4/19/2022 5:36 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

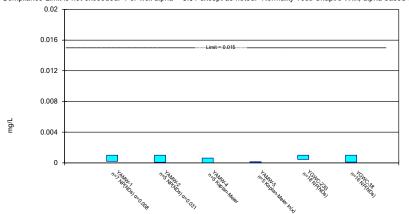
## Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



## Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

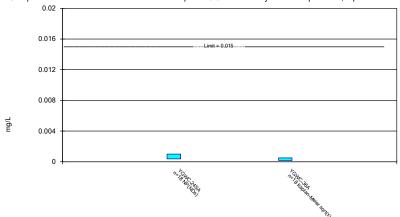


Constituent: Lead Analysis Run 4/19/2022 5:36 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

## Parametric and Non-Parametric (NP) Confidence Interval

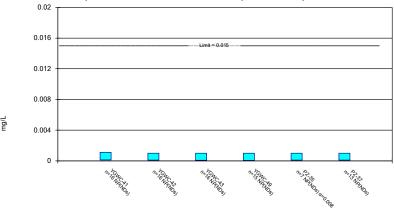
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 4/19/2022 5:36 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

## Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

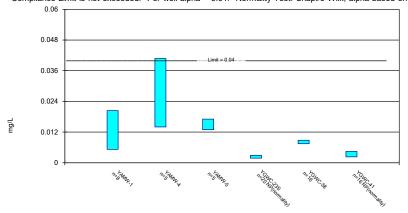


Constituent: Lead Analysis Run 4/19/2022 5:36 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

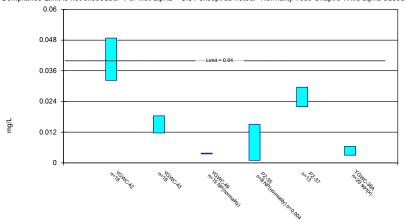
## Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



## Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



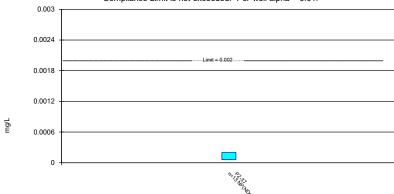
Constituent: Lithium Analysis Run 4/19/2022 5:37 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

#### Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

## Non-Parametric Confidence Interval

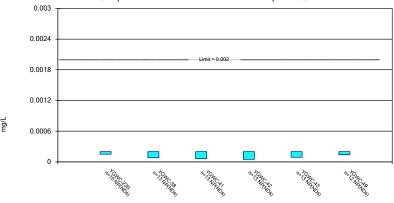
Compliance Limit is not exceeded. Per-well alpha = 0.01.



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## Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



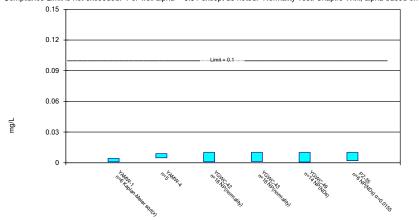
Constituent: Mercury Analysis Run 4/19/2022 5:37 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

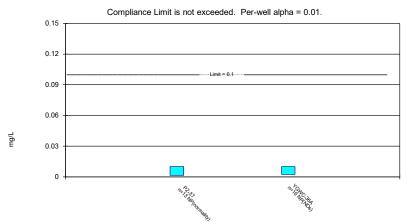
## Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

## 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.



## Non-Parametric Confidence Interval

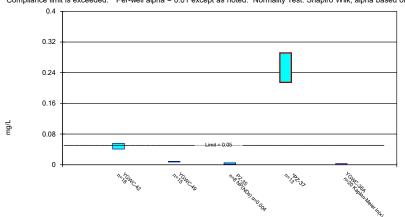


Constituent: Molybdenum Analysis Run 4/19/2022 5:37 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

## Parametric and Non-Parametric (NP) Confidence Interval

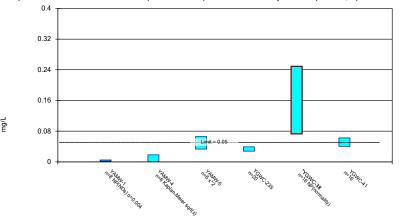
Compliance limit is exceeded.\* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 4/19/2022 5:37 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

## Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.\* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

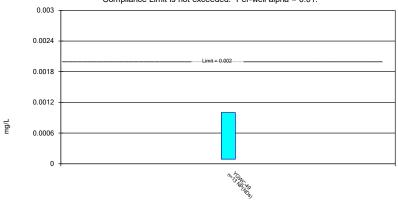


Constituent: Selenium Analysis Run 4/19/2022 5:37 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

## Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



	YAMW-1	YAMW-4	YAMW-5	YGWC-23S	YGWC-38	YGWC-41	
6/7/2016				<0.003			
7/28/2016				<0.003			
9/20/2016				< 0.003			
11/8/2016				< 0.003			
1/16/2017				<0.003			
3/9/2017				<0.003			
5/2/2017				<0.003			
7/10/2017				<0.003			
10/12/2017					<0.003	<0.003	
11/20/2017					<0.003	****	
11/21/2017						<0.003	
1/11/2018						<0.003	
1/12/2018					<0.003	4.000	
2/19/2018					-0.000	<0.003	
2/20/2018					<0.003		
3/30/2018				<0.003	-0.003		
4/3/2018				<b>\0.003</b>	<0.003	<0.003	
6/27/2018					<b>~0.003</b>	<0.003	
					<0.003	NO.003	
6/28/2018 8/7/2018						<0.003	
9/24/2018					0.0015 (J) <0.003	<0.003	
3/6/2019				<0.003	<b>~0.003</b>	NO.003	
4/4/2019				<0.003			
8/22/2019				<0.003	<0.003	<0.003	
	<0.003				<0.003	<b>\0.003</b>	
9/26/2019	<0.003			0.00020 (1)			
9/27/2019 3/25/2020	<0.003			0.00029 (J)	0.00063 (1)	<0.003	
	<0.003			<0.002	0.00063 (J)	<b>\0.003</b>	
3/26/2020		0.00065 (1)		<0.003			
9/23/2020	-0.000	0.00065 (J)	0.00000 (1)	0.00005 (1)			
9/24/2020	<0.003		0.00033 (J)	0.00085 (J)	0.00064 (1)	<0.003	
9/25/2020	0.0002771	0.0011 (1)	<0.002	0.00052 ( 1)	0.00061 (J)	<0.003	
2/9/2021	0.00037 (J)	0.0011 (J)	<0.003	0.00052 (J)	0.00031 (J)	0.0014 (1)	
2/10/2021	0.025	0.00000 (1)				0.0014 (J)	
3/3/2021	0.025	0.00062 (J)	<0.002	<0.002	<0.002	<0.003	
3/4/2021		<0.002	<0.003	<0.003	<0.003	<0.003	
8/25/2021		<0.003	<0.002	<0.003	<0.002	-0.002	
8/26/2021	0.002471		<0.003		<0.003	<0.003	
9/1/2021	0.0024 (J)					-0.002	
2/8/2022	<b>~0.00</b> 2	<0.002	<0.000	<b>-0.00</b> 2	<0.002	<0.003	
2/10/2022	<0.003	<0.003	<0.003	<0.003	<0.003	0.00000	
Mean	0.005681	0.001674	0.002466	0.002592	0.002403	0.002893	
Std. Dev.	0.008573	0.001225	0.001194	0.0009432	0.001051	0.0004131	
Upper Lim. Lower Lim.	0.025 0.00037	0.001179 0.0004933	0.003	0.003	0.003	0.003	
			0.00033	0.00085	0.00063	0.0014	

	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37	YGWC-24SA
6/8/2016						<0.003
8/1/2016						<0.003
8/30/2016	<0.003					
8/31/2016		<0.003				
9/1/2016			<0.003			
9/20/2016						0.0009 (J)
11/8/2016						<0.003
11/15/2016			<0.003			
11/16/2016	<0.003	<0.003				
1/17/2017						<0.003
2/24/2017		<0.003				
2/27/2017	<0.003		0.0011 (J)			
3/8/2017						<0.003
5/2/2017						<0.003
5/9/2017			<0.003			
5/10/2017	<0.003	<0.003				
7/7/2017						<0.003
7/11/2017	<0.003	<0.003				
7/13/2017			<0.003			
10/11/2017			<0.003			
10/12/2017	<0.003	<0.003			<0.003	
11/21/2017					<0.003	
1/11/2018					<0.003	
2/20/2018					<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	
3/5/2019						<0.003
4/4/2019						<0.003
8/21/2019		<0.003				
8/22/2019	<0.003					
9/26/2019			<0.003	<0.003		<0.003
3/25/2020	<0.003	0.00031 (J)	0.00053 (J)	<0.003		
3/26/2020						<0.003
9/23/2020						<0.003
9/24/2020	<0.003		<0.003	<0.003		
9/25/2020		<0.003	.0.000		0.0014 (J)	0.000
2/9/2021	0.00050 ( "	<0.003	<0.003	.0.000	0.00035 (J)	<0.003
2/10/2021	0.00053 (J)			<0.003		0.000
3/3/2021	-0.000	-0.000	-0.000	0.00000 ( "	-0.000	<0.003
3/4/2021	<0.003	<0.003	<0.003	0.00039 (J)	<0.003	
8/25/2021	<0.003		-0.000	-0.000	<0.003	-0.000
9/1/2021		.0.005	<0.003	<0.003		<0.003
9/27/2021		<0.003	-0.000			
2/8/2022	0.000	<0.003	<0.003	.0.000	.0.000	0.000
2/10/2022	<0.003	0.00000	0.000===	<0.003	<0.003	<0.003
Mean	0.002835	0.002821	0.002709	0.002627	0.002673	0.002883
Std. Dev.	0.0006378	0.0006946	0.0007763	0.0009865	0.0008263	0.000495

	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37	YGWC-24SA
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.00053	0.00031	0.0011	0.00039	0.0014	0.0009

	YGWC-36A
9/2/2016	<0.003
11/14/2016	0.0014 (J)
2/28/2017	0.0004 (J)
5/9/2017	<0.003
7/13/2017	<0.003
9/22/2017	<0.003
9/29/2017	<0.003
10/6/2017	<0.003
3/30/2018	<0.003
3/6/2019	0.0011 (J)
4/4/2019	0.0041
9/26/2019	0.0065
3/25/2020	0.0011 (J)
10/7/2020	<0.003
2/10/2021	0.028
3/4/2021	0.0015 (J)
9/3/2021	0.0016 (J)
2/11/2022	0.0023 (J)
Mean	0.004
Std. Dev.	0.006144
Upper Lim.	0.0041
Lower Lim.	0.0014

	YAMW-1	YAMW-4	YAMW-5	YGWC-23S	YGWC-38	YGWC-41
6/7/2016				<0.005		
7/28/2016				<0.005		
9/20/2016				<0.005		
11/8/2016				<0.005		
1/16/2017				<0.005		
3/9/2017				<0.005		
5/2/2017				<0.005		
7/10/2017				<0.005		
10/12/2017					0.0023 (J)	0.0011 (J)
11/20/2017					0.0008 (J)	,,
11/21/2017						<0.005
1/11/2018						<0.005
1/12/2018					0.001 (J)	
2/19/2018					( )	<0.005
2/20/2018					0.00096 (J)	
3/30/2018				<0.005	(-,	
4/3/2018					0.0015 (J)	0.00072 (J)
6/12/2018				<0.005	.,	( )
6/27/2018						0.00062 (J)
6/28/2018					0.0017 (J)	(-)
8/7/2018					0.00072 (J)	<0.005
9/24/2018					0.0017 (J)	0.001 (J)
9/27/2018				<0.005	(-)	
10/16/2018	<0.005					
3/6/2019				<0.005		
4/4/2019				<0.005		
8/22/2019					0.00055 (J)	0.00036 (J)
9/26/2019	<0.005					
9/27/2019				<0.005		
10/9/2019					0.00057 (J)	0.00052 (J)
3/25/2020	<0.005				0.00068 (J)	0.001 (J)
3/26/2020				0.0012 (J)		
9/23/2020		<0.005				
9/24/2020	<0.005		0.0015 (J)	<0.005		
9/25/2020					<0.005	<0.005
2/9/2021	<0.005	0.001 (J)	0.00095 (J)	<0.005	0.00098 (J)	
2/10/2021						<0.005
3/3/2021	<0.005	0.00079 (J)				
3/4/2021			<0.005	<0.005	<0.005	<0.005
8/25/2021		<0.005		<0.005		
8/26/2021			<0.005		0.0013 (J)	<0.005
9/1/2021	<0.005					
2/8/2022						0.0021 (J)
2/10/2022	0.0023 (J)	0.0026 (J)	0.0024 (J)	0.0025 (J)	0.0017 (J)	
Mean	0.004662	0.002878	0.00297	0.004685	0.001654	0.002964
Std. Dev.	0.0009546	0.00206	0.001924	0.0009922	0.001397	0.002135
Upper Lim.	0.005	0.002818	0.002618	0.005	0.002013	0.005
Lower Lim.	0.0023	0.0001089	0.0006151	0.0025	0.000835	0.00062

	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37	YGWC-24SA
6/8/2016						<0.005
8/1/2016						<0.005
8/30/2016	0.0023 (J)					
8/31/2016		<0.005				
9/1/2016			<0.005			
9/20/2016						<0.005
11/8/2016						<0.005
11/15/2016			<0.005			
11/16/2016	0.0017 (J)	<0.005				
1/17/2017						<0.005
2/24/2017		<0.005				
2/27/2017	0.002 (J)		<0.005			
3/8/2017	(-)					<0.005
5/2/2017						<0.005
5/9/2017			<0.005			
5/10/2017	0.0022 (J)	<0.005	2.000			
7/7/2017	0.0022 (0)	-0.000				<0.005
7/11/2017	0.003 (J)	<0.005				5.000
7/11/2017	0.003 (0)	-0.000	<0.005			
10/11/2017			0.0005 0.0006 (J)			
10/11/2017	0.003171	<0.005	0.0000 (3)		0.001471	
	0.0031 (J)	<u.uc< td=""><td></td><td></td><td>0.0014 (J)</td><td></td></u.uc<>			0.0014 (J)	
11/21/2017					0.0008 (J)	
1/11/2018					0.0006 (J)	
2/20/2018					<0.005	40.005
3/30/2018					0.0040 ( 1)	<0.005
4/3/2018	0.0000 ( 1)	-0.005	-0.005		0.0012 (J)	
4/4/2018	0.0023 (J)	<0.005	<0.005			0.005
6/12/2018					0.0044.00	<0.005
6/29/2018					0.0011 (J)	
8/6/2018	0.0045 ( ))	0.00000 (1)	0.004 ( "		<0.005	
9/20/2018	0.0018 (J)	0.00099 (J)	0.001 (J)			
9/24/2018					0.00094 (J)	
9/26/2018						<0.005
10/16/2018				0.00069 (J)		
3/5/2019						<0.005
4/4/2019						<0.005
8/21/2019		<0.005				
8/22/2019	0.00089 (J)					
9/26/2019			<0.005	<0.005		<0.005
10/9/2019	0.00078 (J)	0.00051 (J)				
3/25/2020	0.0013 (J)	0.0007 (J)	0.00086 (J)	<0.005		
3/26/2020						0.0015 (J)
9/23/2020						<0.005
9/24/2020	<0.005		<0.005	<0.005		
9/25/2020		<0.005			<0.005	
2/9/2021		<0.005	<0.005		0.0015 (J)	<0.005
2/10/2021	0.0016 (J)			0.00096 (J)		
3/3/2021						<0.005
	<0.005	<0.005	<0.005	<0.005	<0.005	
3/4/2021						
3/4/2021 8/25/2021	0.0014 (J)				0.0014 (J)	
	0.0014 (J)		<0.005	<0.005	0.0014 (J)	<0.005

	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37	YGWC-24SA
2/8/2022		0.0022 (J)	<0.005			
2/10/2022	0.0026 (J)			0.0018 (J)	0.0017 (J)	0.0024 (J)
Mean	0.002311	0.004025	0.004164	0.003556	0.002357	0.004695
Std. Dev.	0.001241	0.001777	0.001732	0.002016	0.001857	0.0009501
Upper Lim.	0.002976	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.00149	0.00099	0.001	0.00069	0.0008	0.0024

	YGWC-36A
9/2/2016	<0.005
11/14/2016	<0.005
2/28/2017	0.0006 (J)
5/9/2017	0.0006 (J)
7/13/2017	<0.005
9/22/2017	<0.005
9/29/2017	<0.005
10/6/2017	<0.005
3/30/2018	<0.005
6/13/2018	0.00066 (J)
9/26/2018	<0.005
3/6/2019	<0.005
4/4/2019	<0.005
9/26/2019	<0.005
3/25/2020	<0.005
10/7/2020	<0.005
2/10/2021	0.00088 (J)
3/4/2021	<0.005
9/3/2021	<0.005
2/11/2022	0.0014 (J)
Mean	0.003957
Std. Dev.	0.00186
Upper Lim.	0.005
Lower Lim.	0.0014

	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
Mean	0.0495	0.0081	0.01086	0.0416	0.03871	0.02047
Std. Dev.	0.01972	0.0008185	0.008882	0.009127	0.01347	0.004062
Upper Lim.	0.0704	0.009472	0.0286	0.05689	0.04635	0.02311
Lower Lim.	0.0286	0.006728	0.0005986	0.02631	0.03106	0.01783

	YGWC-41	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37
8/30/2016		0.0455				
8/31/2016			0.0065 (J)			
9/1/2016				0.077		
11/15/2016				0.0772		
11/16/2016		0.0541	0.0092 (J)			
2/24/2017			0.0144			
2/27/2017		0.0573		0.0888		
5/9/2017				0.0792		
5/10/2017		0.0517	0.0173			
7/11/2017		0.0451	0.0183			
7/13/2017				0.0839		
10/11/2017				0.078		
10/12/2017	0.0394	0.0429	0.0205			0.064
11/21/2017	0.032					0.0579
1/11/2018	0.03					0.0549
2/19/2018	0.0308					
2/20/2018						0.0593
4/3/2018	0.03					0.051
4/4/2018		0.041	0.024	0.074		
6/27/2018	0.028					
6/29/2018						0.054
8/6/2018						0.048
8/7/2018	0.027					
9/20/2018		0.038	0.035	0.074		
9/24/2018	0.026					0.047
10/16/2018					0.063	
8/21/2019			0.03			
8/22/2019	0.021	0.031				
9/26/2019				0.065	0.039	
10/9/2019	0.021	0.027	0.04			
3/25/2020	0.021	0.03	0.033	0.071	0.039	
9/24/2020		0.026		0.066	0.034	
9/25/2020	0.016		0.046			0.034
2/9/2021			0.041	0.071		0.036
2/10/2021	0.017	0.031			0.032	
3/4/2021	0.017	0.03	0.039	0.069	0.033	0.036
8/25/2021		0.027				0.035
8/26/2021	0.018					
9/1/2021				0.066	0.067	
9/27/2021			0.0097			
2/8/2022	0.021		0.029	0.07		
2/10/2022		0.026			0.074	0.029
Mean	0.0247	0.03773	0.02581	0.07401	0.04763	0.04662
Std. Dev.	0.006706	0.01069	0.01259	0.0068	0.01732	0.01142
Upper Lim.	0.02906	0.04468	0.034	0.07861	0.074	0.05511
Lower Lim.	0.02034	0.03077	0.01762	0.0694	0.032	0.03813

	YGWC-24SA	YGWC-36A
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	0.02	0.043
6/12/2018	0.018	
6/13/2018		0.046
9/26/2018	0.019	0.048
3/5/2019	0.019	
3/6/2019		0.041
4/4/2019	0.02	0.042
9/26/2019	0.017	0.025
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
Mean	0.02103	0.03828
Std. Dev.	0.003574	0.009683
Upper Lim.	0.025	0.04377
Lower Lim.	0.019	0.03278

	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				0.0001 (J)		
11/8/2016				<0.0005		
1/16/2017				0.0001 (J)		
3/9/2017				0.0001 (J)		
5/2/2017				9E-05 (J)		
7/10/2017				<0.0005		
10/12/2017					0.0057	0.0036
11/20/2017					0.0053	
11/21/2017						0.0036
1/11/2018						0.0037
1/12/2018					0.0053	
2/19/2018						0.0039
2/20/2018					0.0053	
3/30/2018				<0.0005		
4/3/2018					0.0056	0.0037
6/12/2018				8.1E-05 (J)		
6/27/2018						0.0038
6/28/2018					0.0059	
8/7/2018					0.0058	0.0037
9/24/2018					0.0051	0.0032
9/27/2018				9E-05 (J)		
10/16/2018	<0.0005					
3/6/2019				6.6E-05 (J)		
4/4/2019				7.2E-05 (J)		
8/22/2019					0.0049	0.0026 (J)
9/26/2019	<0.0005					
9/27/2019				7.7E-05 (J)		
10/9/2019					0.0046	0.0026 (J)
1/15/2020			0.00017 (J)			
3/25/2020	0.00037 (J)				0.0038	0.0026 (J)
3/26/2020				9E-05 (J)		
9/23/2020		<0.0005				
9/24/2020	5.8E-05 (J)		8.6E-05 (J)	0.00015 (J)		
9/25/2020					0.0033	0.002 (J)
2/9/2021	<0.0005	5.1E-05 (J)	0.00015 (J)	0.00015 (J)	0.0029 (J)	
2/10/2021						0.0015 (J)
3/3/2021	<0.0005	<0.0005				
3/4/2021			0.00013 (J)	0.00013 (J)	0.0029	0.0015
8/25/2021				0.00019 (J)		
8/26/2021			0.00012 (J)		0.0028	0.0012
9/1/2021	9.5E-05 (J)	6.5E-05 (J)				
2/8/2022						0.0016
2/10/2022	0.00016 (J)	7.4E-05 (J)	0.00013 (J)	0.00023 (J)	0.0027	
Mean	0.0003354	0.000238	0.000131	0.0002108	0.004494	0.0028
Std. Dev.	0.0001982	0.0002393	2.839E-05	0.000176	0.001209	0.0009737
Upper Lim.	0.0005	0.0005	0.00017	0.00023	0.005381	0.0037
Lower Lim.	5.8E-05	5.1E-05	9.2E-05	8.1E-05	0.004128	0.0016

	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37	YGWC-24SA
6/8/2016						<0.0005
8/1/2016						0.0001 (J)
8/30/2016	9E-05 (J)					
8/31/2016		<0.0005				
9/1/2016			0.0001 (J)			
9/20/2016						0.0001 (J)
11/8/2016						<0.0005
11/15/2016			0.0001 (J)			
11/16/2016	<0.0005	<0.0005				
1/17/2017						0.0001 (J)
2/24/2017		<0.0005				
2/27/2017	<0.0005		0.0001 (J)			
3/8/2017						0.0001 (J)
5/2/2017						0.0001 (J)
5/9/2017			0.0001 (J)			(7
5/10/2017	9E-05 (J)	<0.0005				
7/7/2017	(0)	2.2300				0.0001 (J)
7/11/2017	0.0001 (J)	<0.0005				0.000 (0)
7/11/2017	0.0001(0)	-0.0000	0.0001 (J)			
10/11/2017			0.0001 (J)			
10/11/2017	<0.0005	0.0001 (J)	0.0001 (0)		0.0004 (J)	
11/21/2017	<b>~0.0003</b>	0.0001 (3)				
1/11/2018					0.0004 (J) 0.0003 (J)	
2/20/2018						
					<0.0005	40,0005
3/30/2018					-0.0005	<0.0005
4/3/2018	<0.000E	<0.000E	<0.000E		<0.0005	
4/4/2018	<0.0005	<0.0005	<0.0005			0.00012 / IV
6/12/2018					0.00022 (1)	0.00012 (J)
6/29/2018					0.00033 (J)	
8/6/2018				0.00050 (1)	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						0.00014 (J)
10/16/2018				0.00036 (J)		
3/5/2019						0.00016 (J)
4/4/2019						0.00015 (J)
8/21/2019		0.0003 (J)				
8/22/2019	<0.0005					
9/26/2019			0.00013 (J)	<0.0005		0.00014 (J)
10/9/2019	<0.0005	0.00034 (J)				
3/25/2020	<0.0005	0.00034 (J)	0.00013 (J)	<0.0005		
3/26/2020						0.00016 (J)
9/23/2020						6.1E-05 (J)
9/24/2020	6.7E-05 (J)		0.00013 (J)	0.00033 (J)		
9/25/2020		0.00054 (J)			0.00031 (J)	
2/9/2021		0.00053 (J)	0.00013 (J)		0.00029 (J)	0.00013 (J)
2/10/2021	5.7E-05 (J)			0.00025 (J)		
3/3/2021						9.9E-05 (J)
3/4/2021	<0.0005	0.00056	0.0001 (J)	0.00025 (J)	0.00017 (J)	
8/25/2021	<0.0005				0.00059	
9/1/2021			0.00012 (J)	0.00045 (J)		0.00014 (J)

	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37	YGWC-24SA
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	0.00016 (J)
Mean	0.0003416	0.0004075	0.00014	0.0004122	0.0004062	0.000178
Std. Dev.	0.0002115	0.0001423	0.0001009	0.000117	0.0002152	0.0001413
Upper Lim.	0.0005	0.00053	0.00015	0.000479	0.0004733	0.00016
Lower Lim.	6.7E-05	0.00029	0.0001	0.000269	0.0002084	0.0001

	YGWC-36A
9/2/2016	0.0003 (J)
11/14/2016	9E-05 (J)
2/28/2017	0.0001 (J)
5/9/2017	0.0002 (J)
7/13/2017	0.0003 (J)
9/22/2017	0.0003 (J)
9/29/2017	0.0003 (J)
10/6/2017	0.0003 (J)
3/30/2018	<0.0005
6/13/2018	0.00035 (J)
9/26/2018	0.00032 (J)
3/6/2019	0.00029 (J)
4/4/2019	0.00033 (J)
9/26/2019	0.00029 (J)
3/25/2020	0.00022 (J)
10/7/2020	0.00014 (J)
2/10/2021	9.9E-05 (J)
3/4/2021	0.00016 (J)
9/3/2021	0.00035 (J)
2/11/2022	0.00043 (J)
Mean	0.0002685
Std. Dev.	0.0001099
Upper Lim.	0.0003309
Lower Lim.	0.000206

PAMW-1							
		YAMW-1	YAMW-5	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
\$0,00016   \$0,0005   \$0,	6/7/2016			<0.0005			
11/16/2016	7/28/2016			<0.0005			
118/2016	8/30/2016						<0.0005
1182016				<0.0005			
11/16/2016							
1/16/2017				(.,			<0.0005
				<0.0005			0.000
S49/2017				10.0003			<0.0005
				<0.000E			<0.0005
7/102017				<0.0005			0.0000 / "
7/11/2017				.0.00=			0.0002 (J)
1012/2017				<0.0005			0.000= (
11/20/2017							
11/12/12/12/13						0.0002 (J)	0.0006 (J)
1/11/2018					0.0027		
1/12/2018	11/21/2017					0.0003 (J)	
2/19/2018	1/11/2018					0.0002 (J)	
2/20/2018	1/12/2018				0.0029		
4/3/2018	2/19/2018					<0.0005	
4/3/2018	2/20/2018				0.0029		
4/4/2018	3/30/2018			<0.0005			
6/12/2018	4/3/2018				0.0027	<0.0005	
6/27/2018	4/4/2018						<0.0005
6/28/2018	6/12/2018			<0.0005			
6/28/2018						0.00025 (J)	
8/7/2018					0.0029	.,	
9/20/2018						0.00024 (J)	
9/24/2018						\-/	0.0002 (J)
9/27/2018					0.0027	0.00021 (.1)	0.0002 (0)
10/16/2018   0.00014 (J)				<0.0005	0.0027	0.00021(0)	
3/6/2019		0.0001471		<b>~</b> 0.0000			
4//2019       <0.0005		0.00014 (3)		<0.0005			
8/22/2019       <0.0005							
9/26/2019				<0.0005	0.0000 ( ))	0.00015 ( 1)	0.00017 ( ))
9/27/2019		.0.005=			0.0023 (J)	0.00015 (J)	U.UUU1/(J)
10/9/2019		<0.0005					
3/25/2020   <0.0005   0.0018 (J)   0.00018 (J)   0.00021 (J)				<0.0005			
3/26/2020							
9/24/2020       0.00017 (J)       0.00018 (J)       <0.0005		<0.0005			0.0018 (J)	0.00018 (J)	0.00021 (J)
9/25/2020       0.0015 (J)       0.00014 (J)         2/9/2021       0.00013 (J)       0.00025 (J)       <0.0005	3/26/2020						
2/9/2021       0.00013 (J)       0.00025 (J)       <0.0005	9/24/2020	0.00017 (J)	0.00018 (J)	<0.0005			0.00014 (J)
2/10/2021       <0.0005	9/25/2020				0.0015 (J)	0.00014 (J)	
3/3/2021 <0.0005 3/4/2021	2/9/2021	0.00013 (J)	0.00025 (J)	<0.0005	0.0014 (J)		
3/4/2021 0.00018 (J) <0.0005 0.0013 <0.0005 <0.0005 8/25/2021 <0.0005 <0.0005 8/26/2021 0.00021 (J) 0.0011 <0.0005 9/1/2021 0.00023 (J)	2/10/2021					<0.0005	<0.0005
3/4/2021 0.00018 (J) <0.0005 0.0013 <0.0005 <0.0005 8/25/2021 <0.0005 <0.0005 8/26/2021 0.00021 (J) 0.0011 <0.0005 9/1/2021 0.00023 (J)	3/3/2021	<0.0005					
8/25/2021       <0.0005			0.00018 (J)	<0.0005	0.0013	<0.0005	<0.0005
8/26/2021 0.00021 (J) 0.0011 <0.0005 9/1/2021 0.00023 (J) 2/8/2022 0.00018 (J) 0.00022 (J) <0.0005 0.0011 <0.00012 (J) 2/10/2022 0.00018 (J) 0.00022 (J) <0.0005 0.0011 <0.0005 Mean 0.0002938 0.000208 0.0004785 0.002194 0.0002913 0.0003919							
9/1/2021 0.00023 (J) 2/8/2022 0.00018 (J) 0.00022 (J) <0.0005 0.0011 <0.0005  Mean 0.0002938 0.000208 0.0004785 0.002194 0.0002913 0.0003919			0.00021 (1)		0.0011	<0.0005	
2/8/2022     0.00012 (J)       2/10/2022     0.00018 (J)     0.00022 (J)     <0.0005			0.00021(3)				
2/10/2022     0.00018 (J)     0.00022 (J)     <0.0005		0.00023 (J)	0.00021 (3)				
Mean 0.0002938 0.000208 0.0004785 0.002194 0.0002913 0.0003919		0.00023 (J)	0.00021 (3)			0.00012 (J)	
				<0.0005	0.0011	0.00012 (J)	<0.0005
Std Dev	2/10/2022	0.00018 (J)	0.00022 (J)				
Std. Dev.         0.0001734         2.95E-05         9.615E-05         0.0007141         0.0001516         0.0001608	2/10/2022 Mean	0.00018 (J) 0.0002938	0.00022 (J) 0.000208	0.0004785	0.002194	0.0002913	0.0003919

	YAMW-1	YAMW-5	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
Upper Lim.	0.0005	0.0002574	0.0005	0.0029	0.0005	0.0005
Lower Lim.	0.00013	0.0001586	7E-05	0.0013	0.00015	0.0002

				• ,
	YGWC-49	PZ-35	PZ-37	YGWC-36A
9/1/2016	<0.0005			
9/2/2016				<0.0005
11/14/2016				9E-05 (J)
11/15/2016	<0.0005			
2/27/2017	7E-05 (J)			
2/28/2017				0.0001 (J)
5/9/2017	<0.0005			0.0002 (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			0.0002 (J)	
11/21/2017			0.0002 (J)	
1/11/2018			0.0004 (J)	
2/20/2018			<0.0005	
3/30/2018				<0.0005
4/3/2018			<0.0005	
4/4/2018	<0.0005			
6/13/2018				0.00019 (J)
6/29/2018			0.00099 (J)	
8/6/2018			0.00063 (J)	
9/20/2018	<0.0005			
9/24/2018			0.00069 (J)	
9/26/2018				0.00018 (J)
10/16/2018		<0.0005		
3/6/2019				0.00015 (J)
4/4/2019				0.00019 (J)
9/26/2019	<0.0005	<0.0005		0.00017 (J)
3/25/2020	<0.0005	0.00016 (J)		0.00019 (J)
9/24/2020	<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
3/4/2021	<0.0005	<0.0005	0.00028 (J)	<0.0005
8/25/2021			0.00094	
9/1/2021	<0.0005	<0.0005		
9/3/2021				<0.0005
2/8/2022	<0.0005			
2/10/2022		<0.0005	0.00093	
2/11/2022	0.0004745	0.00045	0.0005465	<0.0005
Mean	0.0004713	0.0004575	0.0005438	0.000269
Std. Dev.	0.000111	0.0001202	0.0002744	0.0001585
Upper Lim.	0.0005	0.0005	0.0007228	0.0005
Lower Lim.	7E-05	0.00016	0.000308	0.00017

	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
Mean	0.001563	0.002202	0.004114	0.00432	0.003509	0.004447
Std. Dev.	0.001702	0.001797	0.001981	0.001521	0.002005	0.001512
Upper Lim.	0.005	0.002983	0.005	0.005	0.005	0.005
Lower Lim.	0.00058	2.161E-05	0.00057	0.0016	0.0008	0.00065

		YGWC-41	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37
8/30/	/2016		<0.005				
8/31/	/2016			<0.005			
9/1/2	2016				0.0013 (J)		
11/15	5/2016				0.0014 (J)		
11/16	6/2016		<0.005	<0.005			
2/24/	/2017			<0.005			
2/27/	/2017		<0.005		0.0016 (J)		
5/9/2	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)		
10/1	1/2017				0.0014 (J)		
10/12	2/2017	<0.005	<0.005	<0.005			0.0019 (J)
11/2	1/2017	<0.005					0.0017 (J)
1/11/	/2018	<0.005					0.001 (J)
2/19/	/2018	<0.005					
2/20/	/2018						<0.005
4/3/2	2018	<0.005					<0.005
4/4/2	2018		<0.005	<0.005	<0.005		
6/27/	/2018	<0.005					
6/29/	/2018						<0.005
8/6/2	2018						<0.005
8/7/2	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)	
	/2020	<0.005		0.00071 (J)			<0.005
2/9/2				<0.005	0.002 (J)		<0.005
	/2021	<0.005	<0.005			0.0006 (J)	
3/4/2		<0.005	<0.005	<0.005	0.0017 (J)	0.0007 (J)	<0.005
	/2021		<0.005				<0.005
	/2021	<0.005					
9/1/2					0.002 (J)	<0.005	
	/2021	.0.005		<0.005	0.0004 (1)		
2/8/2		<0.005	10.005	<0.005	0.0021 (J)	-0.005	10.005
	/2022	0.004740	<0.005	0.000011	0.001071	<0.005	<0.005
Mear		0.004712	0.004208	0.003911	0.001971	0.002185	0.0042
	Dev.	0.001152	0.001711	0.001949	0.0009059	0.002192	0.001532
	er Lim.	0.005	0.005	0.005	0.0021	0.005	0.005
LOWE	er Lim.	0.00039	0.0013	0.00071	0.0014	0.0006	0.0017

	YGWC-24SA	YGWC-36A
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
Mean	0.004259	0.004155
Std. Dev.	0.001594	0.001615
Upper Lim.	0.005	0.005
Lower Lim.	0.0011	0.0013

	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)
Mean	0.01644	0.001154	0.0006	0.004154	0.003899	0.002119
Std. Dev.	0.009964	0.0007745	0.0002393	0.001892	0.001976	0.000862
Upper Lim.	0.02551	0.002488	0.001001	0.005	0.005	0.0025
Lower Lim.	0.007375	0.0002417	0.0001991	0.00077	0.00069	0.0017

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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)			
10/12/2017	0.0006 (J)			0.0078 (J)	
11/21/2017				0.0097 (J)	
1/11/2018				0.0131	
2/20/2018				0.0162	
3/30/2018					<0.005
4/3/2018				0.015	
4/4/2018	<0.005	<0.005			
6/13/2018					<0.005
6/29/2018				0.013	
8/6/2018				0.0053 (J)	
9/20/2018	0.0034 (J)	<0.005			
9/24/2018				0.0071 (J)	0.005
9/26/2018			-0.005		<0.005
10/16/2018			<0.005		×0.00E
3/6/2019					<0.005
4/4/2019 8/21/2019	0.0026 (J)				<0.005
9/26/2019	0.0020 (3)	<0.005	<0.005		0.00048 (J)
10/9/2019	0.0023 (J)	<b>~</b> 0.003	<b>~0.003</b>		0.00040 (3)
3/25/2020	0.0025 (J) 0.0016 (J)	<0.005	0.0059		0.00038 (J)
9/24/2020	0.0010(0)	<0.005	<0.005		0.00000 (0)
9/25/2020	0.0018 (J)	-0.000	-0.000	0.0023 (J)	
10/7/2020	0.0010(0)			0.0020 (0)	0.00086 (J)
2/9/2021	0.0017 (J)	<0.005		0.0023 (J)	3.33333 (5)
2/10/2021	0.0017 (0)	0.000	<0.005	0.0020 (0)	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
Mean	0.003184	0.003833	0.005112	0.008092	0.003885
Std. Dev.	0.001786	0.002003	0.0003182	0.004907	0.001984

	YGWC-43	YGWC-49	PZ-35	PZ-37	YGWC-36A
Upper Lim.	0.005	0.005	0.0059	0.01174	0.005
Lower Lim.	0.0015	0.0006	0.005	0.004444	0.00086

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWC-23S	YGWC-38
6/7/2016					0.303 (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
11/20/2017						0.342 (U)
1/12/2018						1.04
2/20/2018						1.6 (U)
3/30/2018					0.659 (U)	
4/3/2018						0.726 (U)
6/12/2018					1.03 (U)	
6/28/2018						1.06 (U)
8/7/2018						1.21
9/24/2018						1.52
9/27/2018					1.06 (U)	
10/16/2018	0.384 (U)					
3/6/2019					0.736 (U)	
4/4/2019					0.474 (U)	
8/22/2019						1.97
9/27/2019					0.684 (U)	
10/8/2019						0.751 (U)
3/25/2020	0.525 (U)					0.321 (U)
3/26/2020					0.281 (U)	
9/23/2020		0.0813 (U)	1.2 (U)			
9/24/2020	0.547 (U)			0.668 (U)	0.788 (U)	
9/25/2020						0.246 (U)
2/9/2021	0.866 (U)	0.492 (U)	0.659 (U)	1.07 (U)	0.464 (U)	0.626 (U)
3/3/2021	0.377 (U)	0.563 (U)	1.07			
3/4/2021				1.46	0.771 (U)	0.816 (U)
8/25/2021			0.0991 (U)		0.624 (U)	
8/26/2021				0.724 (U)		0.427 (U)
9/1/2021	0.676 (U)	0.761 (U)				
2/10/2022	0.233 (U)	0 (U)	0.702 (U)	1.25 (U)	0.197 (U)	0.791 (U)
Mean	0.5154	0.3795	0.746	1.034	0.5674	0.9179
Std. Dev.	0.2105	0.3259	0.4298	0.3389	0.3641	0.4977
Upper Lim.	0.7655	0.9255	1.466	1.602	0.7741	1.242
Lower Lim.	0.2653	-0.1666	0.02573	0.4665	0.3606	0.5941

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-41	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37	
8/30/2016		2.99					
8/31/2016			0.926 (U)				
9/1/2016				1.2			
11/15/2016				0.645 (U)			
11/16/2016		4.01	0.773 (U)				
2/24/2017			0.661 (U)				
2/27/2017		2.5		0.244 (U)			
5/9/2017				0.519 (U)			
5/10/2017		2.55	1.27				
7/11/2017		3.94	1.02				
7/13/2017				0.5 (U)			
10/11/2017				1.41			
10/12/2017	0.641 (U)	3.57	1.58			1.83	
11/21/2017	2.01					1.33	
1/11/2018	0.919 (U)					1.53	
2/19/2018	1.82						
2/20/2018						2.75	
4/3/2018	0.911 (U)					1.47	
4/4/2018		1.9	1.71	0.442 (U)			
6/27/2018	0.429 (U)						
6/29/2018						1.69	
8/6/2018						1.69	
8/7/2018	0.579 (U)						
9/20/2018		1.94	2.8	1.14 (U)			
9/24/2018	1.39					2.26	
10/16/2018					0.363 (U)		
8/21/2019			3.16				
8/22/2019	2.03	1.59					
9/26/2019				1.16 (U)			
10/8/2019	0.609 (U)	0.995 (U)	3.65				
3/25/2020	0.568 (U)	1.17 (U)	3.04	1.2 (U)	0.197 (U)		
9/24/2020		0.751 (U)		1.57 (U)	1.07 (U)		
9/25/2020	0.769 (U)		4.75			1.68 (U)	
2/9/2021			6.38	0.137 (U)		1.52	
2/10/2021	0.548 (U)	0.612 (U)		. ,	0.546 (U)		
3/4/2021	1.23	1.02	6.02	0.579 (U)	0.397 (U)	1.49	
8/25/2021		0.978 (U)				1.41	
8/26/2021	0.356 (U)						
9/1/2021				0.686 (U)	0.696 (U)		
9/27/2021			1.54				
2/8/2022	0.594 (U)		3.11	0.201 (U)			
2/10/2022		0.307 (U)		. ,	1.25 (U)	0.81 (U)	
Mean	0.9627	1.926	2.649	0.7755	0.6456	1.651	
Std. Dev.	0.5633	1.21	1.818	0.4638	0.3875	0.4631	
Upper Lim.	1.234	2.714	3.591	1.09	1.106	1.995	
Lower Lim.	0.589	1.139	1.399	0.4612	0.1853	1.306	

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-24SA	YGWC-36A
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)
3/30/2018	0.409 (U)	0.721 (U)
6/12/2018	0.728 (U)	
6/13/2018		1.04 (U)
9/26/2018	0.981	0.604 (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	0.964 (U)	0.979 (U)
3/25/2020		1.22 (U)
3/26/2020	0.511 (U)	
9/23/2020	0.786 (U)	
10/7/2020		1.58
2/9/2021	0.678 (U)	
2/10/2021		0.466 (U)
3/3/2021	0.415 (U)	
3/4/2021		0.0671 (U)
9/1/2021	0.444 (U)	
9/3/2021		0.622 (U)
2/10/2022	0.846 (U)	
2/11/2022		0.395 (U)
Mean	0.6344	0.7893
Std. Dev.	0.2484	0.4419
Upper Lim.	0.7755	1.04
Lower Lim.	0.4933	0.5384

					,	
	YAMW-4	YGWC-23S	YGWC-38	YGWC-41	YGWC-42	YGWC-43
6/7/2016		<0.1				
7/28/2016		0.03 (J)				
8/30/2016					0.02 (J)	
8/31/2016						0.12 (J)
9/20/2016		<0.1				
11/8/2016		<0.1				
11/16/2016	5				0.07 (J)	0.2 (J)
1/16/2017		<0.1				
2/24/2017						0.21 (J)
2/27/2017					0.06 (J)	
3/9/2017		<0.1				
5/2/2017		<0.1				
5/10/2017					<0.1	0.04 (J)
7/10/2017		<0.1				- (-)
7/11/2017		<del>2</del>			<0.1	0.2 (J)
10/11/2017		<0.1			-V. I	J.Z (U)
10/11/2017		<b>~</b> 0.1	<0.1	<0.1	<0.1	0.1(1)
				<b>~</b> 0.1	<b>~</b> 0.1	0.1 (J)
11/20/2017			0.2 (J)	-0.1		
11/21/2017	,			<0.1		
1/11/2018			0.04 ( ))	<0.1		
1/12/2018			0.21 (J)			
2/19/2018				<0.1		
2/20/2018			<0.1			
3/30/2018		<0.1				
4/3/2018			0.41	<0.1		
4/4/2018					<0.1	<0.1
6/12/2018		<0.1				
6/27/2018				<0.1		
6/28/2018			0.43			
8/7/2018			<0.1	0.11 (J)		
9/20/2018					0.041 (J)	<0.1
9/24/2018			0.034 (J)	<0.1		
9/27/2018		<0.1				
3/6/2019		<0.1				
3/27/2019			0.24 (J)		<0.1	
3/28/2019			. ,	0.1 (J)		0.078 (J)
4/4/2019		0.049 (J)		\-'\		- (-)
8/21/2019		3 (0)				0.062 (J)
8/22/2019			<0.1	<0.1	<0.1	-:002 (0)
9/27/2019		0.12 (J)	-0.1	-0.1	-0.1	
10/9/2019		U. 12 (J)	<0.1	<0.1	<0.1	<0.1
			<0.1	<0.1	<0.1	<0.1
3/25/2020		-0.1	<0.1	<0.1	<0.1	0.073 (J)
3/26/2020		<0.1				
9/23/2020	<0.1					
9/24/2020		<0.1			<0.1	
9/25/2020			<0.1	<0.1		<0.1
2/9/2021	0.14	<0.1	<0.1			0.058 (J)
2/10/2021				<0.1	<0.1	
3/3/2021	0.14					
3/4/2021		<0.1	<0.1	<0.1	<0.1	0.063 (J)
8/25/2021	<0.1	<0.1			<0.1	
8/26/2021			<0.1	<0.1		

	YAMW-4	YGWC-23S	YGWC-38	YGWC-41	YGWC-42	YGWC-43
9/27/2021						0.1
2/8/2022				<0.1		0.066 (J)
2/10/2022	<0.1	<0.1	<0.1		<0.1	
Mean	0.116	0.09519	0.1544	0.1006	0.08771	0.1041
Std. Dev.	0.02191	0.01926	0.112	0.002425	0.02476	0.05169
Upper Lim.	0.14	0.12	0.21	0.11	0.1	0.1065
Lower Lim.	0.1	0.049	0.034	0.1	0.07	0.05855

·	YGWC-49	PZ-37	YGWC-24SA	YGWC-36A
6/8/2016			<0.1	
8/1/2016			<0.1	
9/1/2016	0.09 (J)			
9/2/2016	` '			0.05 (J)
9/20/2016			<0.1	- \-/
11/8/2016			<0.1	
11/14/2016			· · ·	0.18 (J)
11/15/2016	0.16 (J)			0.10 (0)
1/17/2017	0.10 (0)		<0.1	
2/27/2017	0.06 (J)		<b>~0.1</b>	
2/28/2017	0.00 (0)			0.09 (J)
			<0.1	0.09 (3)
3/8/2017				
5/2/2017	0.05 (1)		<0.1	0.000 (1)
5/9/2017	0.05 (J)			0.009 (J)
7/7/2017			<0.1	
7/13/2017	<0.1			<0.1
9/22/2017				0.09 (J)
9/29/2017				<0.1
10/5/2017			<0.1	
10/6/2017				<0.1
10/11/2017	0.14 (J)			<0.1
10/12/2017		<0.1		
11/21/2017		0.26 (J)		
1/11/2018		<0.1		
2/20/2018		0.45		
3/30/2018			<0.1	<0.1
4/3/2018		0.31		
4/4/2018	<0.1			
6/12/2018			<0.1	
6/13/2018				<0.1
6/29/2018		<0.1		
8/6/2018				
	-0.1	0.23 (J)		
9/20/2018	<0.1	-0.4		
9/24/2018		<0.1	-0.1	-0.4
9/26/2018			<0.1	<0.1
3/5/2019			<0.1	
3/6/2019				<0.1
3/28/2019	<0.1			
4/4/2019			0.033 (J)	0.043 (J)
9/26/2019	0.09 (J)		0.098 (J)	0.094 (J)
3/25/2020	<0.1			<0.1
3/26/2020			<0.1	
9/23/2020			<0.1	
9/24/2020	<0.1			
9/25/2020		<0.1		
10/7/2020				<0.1
2/9/2021	<0.1	<0.1	<0.1	
2/10/2021	-	-	-	<0.1
3/3/2021			<0.1	
3/4/2021	<0.1	<0.1	J. 1	<0.1
	<b>~</b> 0.1			<b>~</b> 0.1
8/25/2021	-0.1	<0.1	-0.1	
9/1/2021	<0.1		<0.1	

	YGWC-49	PZ-37	YGWC-24SA	YGWC-36A
9/3/2021				<0.1
2/8/2022	<0.1			
2/10/2022		<0.1	<0.1	
2/11/2022				<0.1
Mean	0.09938	0.1654	0.09671	0.09314
Std. Dev.	0.02516	0.1131	0.01461	0.03137
Upper Lim.	0.14	0.31	0.1	0.1
Lower Lim.	0.09	0.1	0.098	0.09

	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	7					0.0001 (J)	
11/20/2017	7					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	
Mean	0.0008843	0.000638	0.0005832	0.0004448	0.0008237	0.0008313	
Std. Dev.	0.0003062	0.0004958	0.0004119	0.0005074	0.0003468	0.0003628	
Upper Lim.	. 0.001	0.001	0.0006106	0.0001361	0.001	0.001	
Lower Lim.	. 0.00019	8E-05	1.2E-07	3.504E-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	0.75.05.40	0.004	<0.001			
8/22/2019	6.7E-05 (J)	<0.001		-0.001	-0.001	
9/26/2019	0.00010 (1)	-0.001	-0.001	<0.001	<0.001	
10/9/2019	0.00012 (J)	<0.001	<0.001	E OE OE ( I)	-0.001	
3/25/2020 9/24/2020	<0.001	4.7E-05 (J) <0.001	7.5E-05 (J)	5.9E-05 (J) <0.001	<0.001 <0.001	
9/25/2020	<0.001	<b>~0.001</b>	<0.001	<b>\0.001</b>	<b>~0.001</b>	8.5E-05 (J)
2/9/2021	<b>10.001</b>		<0.001	<0.001		8.8E-05 (J)
2/10/2021	0.0002 (J)	5.4E-05 (J)	10.001	-0.001	8.7E-05 (J)	0.02 00 (0)
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
Mean	0.0007848	0.0007744	0.0008847	0.0009373	0.0007481	0.0006672
Std. Dev.	0.0004016	0.0004047	0.0003151	0.000243	0.0004305	0.0004396
Upper Lim.	0.0011	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.00012	9E-05	8E-05	5.9E-05	8.7E-05	8.8E-05

	YGWC-24SA	YGWC-36A
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	<0.001	0.00037 (J)
9/26/2019	<0.001	0.00023 (J)
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
Mean	0.0009118	0.0005517
Std. Dev.	0.0002619	0.0004303
Upper Lim.	0.001	0.0004876
Lower Lim.	0.00036	0.0001631

				rates Chem. Coun	iem company De		
	YAMW-1	YAMW-4	YAMW-5	YGWC-23S	YGWC-38	YGWC-41	
6/7/2016				<0.03			
7/28/2016				0.0019 (J)			
9/20/2016				0.0021 (J)			
11/8/2016				0.0024 (J)			
1/16/2017				0.0022 (J)			
3/9/2017				0.0025 (J)			
5/2/2017				0.0019 (J)			
7/10/2017				0.0018 (J)			
10/12/2017					0.0095 (J)	0.004 (J)	
11/20/2017					0.0083 (J)		
11/21/2017						0.0043 (J)	
1/11/2018						0.0044 (J)	
1/12/2018					0.0089 (J)	( )	
2/19/2018					. ,	<0.03	
2/20/2018					0.0082 (J)		
3/30/2018				0.0039 (J)	(-)		
4/3/2018				2.2.20 (0)	0.0097 (J)	0.0047 (J)	
6/12/2018				0.0017 (J)	(0)		
6/27/2018				0.0017 (0)		0.0042 (J)	
6/28/2018					0.0093 (J)		
8/7/2018					0.0092 (J)	0.0038 (J)	
9/24/2018					0.0032 (J)	0.0037 (J)	
9/27/2018				0.0017 (J)	0.0003 (0)	0.0007 (0)	
10/16/2018	0.0052 (J)			0.0017 (0)			
3/6/2019	0.0002 (0)			0.0025 (J)			
4/4/2019				0.0023 (J)			
8/22/2019				0.0018 (3)	0.0082 (J)	0.0035 (J)	
9/26/2019	<0.03				0.0082 (3)	0.0033 (3)	
9/27/2019	<b>~</b> 0.03			0.0017 (J)			
10/9/2019				0.0017 (3)	0.0081 / 1)	0.0022 (1)	
3/25/2020	0.0011 (1)				0.0081 (J)	0.0032 (J)	
	0.0011 (J)			0.0021 / 1)	0.0081 (J)	0.0029 (J)	
3/26/2020		0.03 ( !)		0.0021 (J)			
9/23/2020	0.011 (1)	0.03 (J)	0.012 (1)	0.0025 ( !)			
9/24/2020 9/25/2020	0.011 (J)		0.013 (J)	0.0035 (J)	0.0069 (J)	0.0025 (J)	
	0.021 / 1)	0.019 / 1)	0.016 / 1\	0.0036 ( 1)		0.0023 (J)	
2/9/2021	0.021 (J)	0.018 (J)	0.016 (J)	0.0026 (J)	0.0067 (J)	0.0021 ( 1)	
2/10/2021	0.02271	0.03 ( 1)				0.0021 (J)	
3/3/2021	0.022 (J)	0.02 (J)	0.016 ( 1)	0.0036 ( !)	0.0067 (1)	0.002171)	
3/4/2021		0.022	0.016 (J)	0.0026 (J)	0.0067 (J)	0.0021 (J)	
8/25/2021		0.033	0.015 (1)	0.0026 (J)	0.007 (1)	0.002171)	
8/26/2021	0.012 (1)		0.015 (J)		0.007 (J)	0.0021 (J)	
9/1/2021	0.013 (J)					0.0000 (1)	
2/8/2022	0.0447.	0.000	0.045 (**)	0.0000 ( "	0.0000 ( "	0.0023 (J)	
2/10/2022	0.014 (J)	0.036	0.015 (J)	0.0029 (J)	0.0068 (J)	0.00405	
Mean	0.01279	0.0274	0.015	0.00297	0.008119	0.00405	
Std. Dev.	0.007132	0.007987	0.001225	0.002893	0.001038	0.003054	
Upper Lim.	0.02035	0.04078	0.01705	0.0029	0.008794	0.0044	
Lower Lim.	0.005228	0.01402	0.01295	0.0018	0.007443	0.0023	

						_
	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37	YGWC-36A
8/30/2016	0.0257 (J)					
8/31/2016		0.006 (J)				
9/1/2016			0.0034 (J)			
9/2/2016						0.0029 (J)
11/14/2016						0.0044 (J)
11/15/2016			0.0044 (J)			` '
11/16/2016	0.0221 (J)	0.0095 (J)	(,,			
2/24/2017	0.0221(0)	0.0003 (J) 0.0104 (J)				
	0 0200 ( 1)	0.0104 (0)	0.0036 (1)			
2/27/2017	0.0208 (J)		0.0036 (J)			0.0028 ( !)
2/28/2017			0.0000 ( "			0.0038 (J)
5/9/2017			0.0038 (J)			0.0057 (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)			0.007 (J)
9/22/2017						0.0067 (J)
9/29/2017						0.0064 (J)
10/6/2017						0.0065 (J)
10/11/2017			0.0036 (J)			
10/12/2017	0.0331 (J)	0.013 (J)	` '		0.0271 (J)	
11/21/2017	(0)	(0)			0.0255 (J)	
1/11/2018					0.0233 (J)	
2/20/2018					<0.03	0.0004 ( ))
3/30/2018					0.007 ( )	0.0061 (J)
4/3/2018					0.027 (J)	
4/4/2018	0.037 (J)	0.016 (J)	0.0039 (J)			
6/13/2018						0.0065 (J)
6/29/2018					0.032 (J)	
8/6/2018					0.033 (J)	
9/20/2018	0.049 (J)	0.019 (J)	0.0036 (J)			
9/24/2018					0.028 (J)	
9/26/2018						0.0063 (J)
10/16/2018				0.0011 (J)		
3/6/2019				\-/		0.0057 (J)
4/4/2019						0.0057 (J)
8/21/2019		0.015 (J)				0.0000 (0)
	0.047	0.013 (3)				
8/22/2019	0.047		0.0000 ( 1)	10.00		0.0044 ( ))
9/26/2019	0.00-	0.040 ( ))	0.0036 (J)	<0.03		0.0041 (J)
10/9/2019	0.037	0.018 (J)				
3/25/2020	0.045	0.016 (J)	0.0037 (J)	0.011 (J)		0.0032 (J)
9/24/2020	0.05		0.0037 (J)	0.001 (J)		
9/25/2020		0.018 (J)			0.028 (J)	
10/7/2020						0.0014 (J)
2/9/2021		0.024 (J)	0.0038 (J)		0.024 (J)	
2/10/2021	0.058			0.0012 (J)		0.0011 (J)
3/4/2021	0.059	0.025 (J)	0.0035 (J)	0.0015 (J)	0.028 (J)	<0.03
8/25/2021	0.053	` '	` '	` '	0.023 (J)	
9/1/2021			0.0036 (J)	0.0019 (J)	(0)	
9/3/2021			3.0000 (0)	0.0013 (0)		0.00086 (J)
		0.0002 (1)				0.00000 (J)
9/27/2021		0.0092 (J)	0.0000 ( "			
2/8/2022		0.016 (J)	0.0036 (J)			
2/10/2022	0.052			0.0021 (J)	0.017 (J)	
2/11/2022						0.00093 (J)

	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37	YGWC-36A
Mean	0.04053	0.01503	0.003693	0.00435	0.02575	0.005019
Std. Dev.	0.0127	0.005157	0.0002314	0.005458	0.005122	0.003162
Upper Lim.	0.04879	0.01839	0.0038	0.015	0.02955	0.006428
Lower Lim.	0.03226	0.01168	0.0035	0.001	0.02194	0.00297

	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					0.0002
11/8/2016	<0.0002					
11/15/2016	V0.0002					<0.0002
				<0.0000	<0.0002	<0.000 <u>2</u>
11/16/2016	<0.0003			<0.0002	<0.0002	
1/16/2017	<0.0002				-0.0000	
2/24/2017				.0.0000	<0.0002	.0.0000
2/27/2017				<0.0002		<0.0002
3/9/2017	<0.0002					
5/2/2017	<0.0002					
5/9/2017						<0.0002
5/10/2017				<0.0002	<0.0002	
7/10/2017	<0.0002					
7/11/2017				<0.0002	<0.0002	
7/13/2017						<0.0002
10/11/2017						<0.0002
10/12/2017		<0.0002	<0.0002	<0.0002	<0.0002	
11/20/2017		8E-05 (J)				
11/21/2017			6E-05 (J)			
1/11/2018			<0.0002			
1/12/2018		<0.0002				
2/19/2018		-	<0.0002			
2/20/2018		<0.0002				
3/30/2018	<0.0002	0.0002				
4/3/2018	-0.0002	<0.0002	<0.0002			
		<b>~</b> 0.000∠	<b>~</b> 0.000∠	<0.0000	<0.0002	<0.0000
4/4/2018			-0.0000	<0.0002	<0.0002	<0.0002
6/27/2018		0.75.05.00	<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	-0.0002			<0.0002
9/1/2021					9E-05 (JB)	-0.0002
			<0.0000			<0.0000
2/8/2022	-0.0000	-0.0000	<0.0002	10.0000	<0.0002	<0.0002
2/10/2022	<0.0002	<0.0002	0.0001000	<0.0002	0.0001000	0.000:00:
Mean	0.0001899	0.0001782	0.0001892	0.0001883	0.0001802	0.0001834
Std. Dev.	2.849E-05	5.386E-05	3.883E-05	4.216E-05	4.906E-05	4.223E-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
Mean	0.0001892
Std. Dev.	3.883E-05
Upper Lim.	0.0002
Lower Lim.	6E-05

	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
Mean	0.003665	0.00684	0.004692	0.005481	0.009336	0.00865
Std. Dev.	0.003321	0.001218	0.004295	0.004286	0.002486	0.003307
Upper Lim.	0.004175	0.008881	0.01	0.01	0.01	0.01
Lower Lim.	0.0009024	0.004799	0.00085	0.0012	0.0007	0.0019

Constituent: Molybdenum (mg/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-37	YGWC-36A
9/2/2016		0.0027 (J)
11/14/2016		0.0071 (J)
2/28/2017		0.0038 (J)
5/9/2017		0.0025 (J)
7/13/2017		0.0014 (J)
9/22/2017		<0.01
9/29/2017		<0.01
10/6/2017		<0.01
10/12/2017	0.0022 (J)	
11/21/2017	0.0016 (J)	
1/11/2018	0.0015 (J)	
2/20/2018	<0.01	
3/30/2018		<0.01
4/3/2018	<0.01	
6/29/2018	0.0021 (J)	
8/6/2018	<0.01	
9/24/2018	<0.01	
3/6/2019		<0.01
3/25/2020		<0.01
9/25/2020	0.0016 (J)	
10/7/2020		0.0015 (J)
2/9/2021	0.0016 (J)	
2/10/2021		<0.01
3/4/2021	0.0024 (J)	<0.01
8/25/2021	0.0011 (J)	
9/3/2021		<0.01
2/10/2022	<0.01	
2/11/2022		<0.01
Mean	0.004931	0.007437
Std. Dev.	0.004184	0.003629
Upper Lim.	0.01	0.01
Lower Lim.	0.0015	0.0025

Constituent: Selenium (mg/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-4	YAMW-5	YGWC-23S	YGWC-38	YGWC-41	
6/7/2016				0.037			
7/28/2016				0.0385			
9/20/2016				0.0464			
11/8/2016				0.0521			
1/16/2017				0.0469			
3/9/2017				0.0437			
5/2/2017				0.0395			
7/10/2017				0.0386			
10/12/2017					0.265	0.0191	
11/20/2017					0.246		
11/21/2017						0.0687	
1/11/2018						0.069	
1/12/2018					0.249		
2/19/2018						0.071	
2/20/2018					0.253		
3/30/2018				0.028			
4/3/2018					0.23	0.067	
6/12/2018				0.026			
6/27/2018						0.066	
6/28/2018					0.23		
8/7/2018					0.2	0.061	
9/24/2018					0.2	0.061	
9/27/2018				0.023			
10/16/2018	0.0019 (J)						
3/6/2019				0.019			
4/4/2019				0.017			
8/22/2019					0.14	0.058	
9/26/2019	<0.005						
9/27/2019				0.018			
10/9/2019					0.12	0.052	
1/15/2020			0.045				
1/16/2020		0.0018 (J)					
3/25/2020	<0.005	. ,			0.099	0.057	
3/26/2020				0.024			
9/23/2020		0.016					
9/24/2020	<0.005	<del>-</del>	0.026	0.031			
9/25/2020					0.076	0.046	
2/9/2021	<0.005	<0.005	0.06	0.032	0.073		
2/10/2021		2.200				0.033	
3/3/2021	<0.005	<0.005					
3/4/2021	0.000	5.550	0.061	0.037	0.076	0.037	
8/25/2021		0.019	0.001	0.037	5.575		
8/26/2021		5.5.5	0.055	0.002	0.06	0.027	
9/1/2021	0.0027 (J)		0.000		0.00		
2/8/2022	0.0027 (0)					0.031	
2/10/2022	0.0034 (J)	0.019	0.057	0.039	0.064	5.55	
Mean	0.0034 (3)	0.019	0.057	0.039	0.1613	0.05149	
Std. Dev.	0.004123	0.007869	0.03007	0.03344	0.07941	0.01701	
Upper Lim.	0.001273	0.007869	0.01337	0.01015	0.07941	0.06255	
Lower Lim.	0.003	0.0002687	0.00372	0.0392	0.249	0.04042	
LOWEI LIIII.	0.0019	0.0002007	0.03330	0.02/0/	0.073	U.UTU4Z	

Constituent: Selenium (mg/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-49	PZ-35	PZ-37	YGWC-36A
8/30/2016	0.0711				
9/1/2016		0.0086 (J)			
9/2/2016					0.0012 (J)
11/14/2016					<0.005
11/15/2016		0.0056 (J)			
11/16/2016	0.0313	0.0000 (0)			
2/27/2017	0.0316	0.0098 (J)			
2/28/2017	0.0310	0.0030 (0)			0.0017 (J)
		0.0076 (1)			
5/9/2017	0.053	0.0076 (J)			0.0018 (J)
5/10/2017	0.053				
7/11/2017	0.0697				
7/13/2017		0.0093 (J)			0.0031 (J)
9/22/2017					0.0024 (J)
9/29/2017					0.002 (J)
10/6/2017					<0.005
10/11/2017		0.0089 (J)			
10/12/2017	0.0594			0.234	
11/21/2017				0.225	
1/11/2018				0.168	
2/20/2018				0.315	
3/30/2018					<0.005
4/3/2018				0.28	
4/4/2018	0.055	<0.005			
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				2.00	0.0037 (J)
			<0.005		0.0037 (3)
10/16/2018			<0.005		0 0033 ( 1)
3/6/2019					0.0033 (J)
4/4/2019	0.047				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
Mean	0.04819	0.007733	0.004325	0.2532	0.00344
Std. Dev.	0.0113	0.001429	0.004325	0.05155	0.00344
		0.001429		0.05155	
Upper Lim.	0.05555		0.005		0.002616
Lower Lim.	0.04084	0.006765	0.0016	0.2149	0.00179

Constituent: Thallium (mg/L) Analysis Run 4/19/2022 5:39 PM View: Appendix IV Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49
9/1/2016	<0.001
11/15/2016	<0.001
2/27/2017	9E-05 (J)
5/9/2017	<0.001
7/13/2017	<0.001
10/11/2017	<0.001
4/4/2018	<0.001
9/20/2018	<0.001
9/26/2019	<0.001
3/25/2020	<0.001
9/24/2020	<0.001
2/9/2021	<0.001
2/8/2022	<0.001
Mean	0.00093
Std. Dev.	0.0002524
Upper Lim.	0.001
Lower Lim.	9E-05

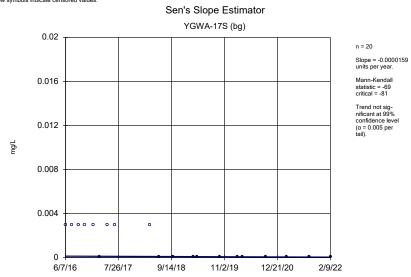
# FIGURE I.

# Appendix IV Trend Tests - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/19/2022, 5:44 PM Constituent Well Calc. Critical Sig. N %NDs Normality Xform <u>Alpha</u> Method Slope Beryllium (mg/L) YGWA-20S (bg) -0.0005346 -112 -87 Yes 21 47.62 n/a n/a 0.01 YGWC-38 -0.0007575 -90 -58 Beryllium (mg/L) Yes 16 0 n/a n/a 0.01 NP Selenium (mg/L) YGWA-17S (bg) 0.0004358 94 81 Yes 20 70 n/a n/a 0.01 NP -0.055 -107 -58 Yes 16 0 n/a n/a YGWC-38 Selenium (mg/L) 0.01 NP

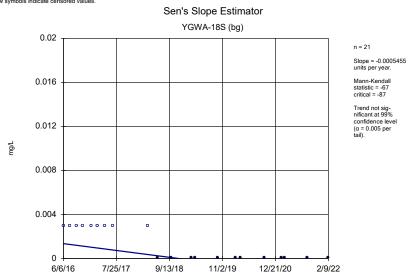
### Appendix IV Trend Tests - All Results

Data: Plant Yates AMA-R6 Constituent Calc. Critical Sig. N <u>%NDs</u> <u>Normality</u> <u>Xform</u> <u>Alpha</u> Method Beryllium (mg/L) YGWA-17S (bg) -0.0000159 -69 -81 No 20 40 0.01 NP n/a n/a 0 Beryllium (mg/L) YGWA-18I (bg) 0 87 No 21 100 n/a n/a 0.01 NP -0.0005455 0.01 NP Beryllium (mg/L) YGWA-18S (ba) -67 -87 No 21 42.86 n/a n/a Beryllium (mg/L) YGWA-20S (bg) -0.0005346 -112 -87 Yes 21 47.62 0.01 ΝP Beryllium (mg/L) YGWA-21I (bg) 0 0 87 21 100 0.01 NP No n/a n/a Beryllium (mg/L) YGWA-39 (bg) 0 -10 -63 No 17 94.12 n/a n/a 0.01 NP -0.00001094 NP Beryllium (mg/L) YGWA-40 (bg) -24 -63 No 17 11.76 n/a n/a 0.01 Beryllium (mg/L) YGWA-4I (bg) 0 0 87 No 21 100 0.01 NP Beryllium (mg/L) 0 NP YGWA-5D (bg) 0 87 No 21 100 n/a n/a 0.01 Beryllium (mg/L) YGWA-5I (bg) 0 0 No 21 100 n/a n/a 0.01 NP Beryllium (mg/L) YGWC-38 0 NP -0.0007575 -90 -58 Yes 16 n/a n/a 0.01 YGWA-47 (bg) Beryllium (mg/L) 0 -25 -48 14 64.29 0.01 NP No 0 NP Beryllium (mg/L) GWA-2 (bg) 0 37 0.01 199 No 100 n/a n/a Beryllium (mg/L) YGWA-14S (bg) 0 -19 -74 No 19 10.53 n/a n/a 0.01 NP YGWA-1D (bg) Beryllium (mg/L) 0 0 74 No 19 100 n/a n/a 0.01 NP Beryllium (mg/L) YGWA-1I (bg) 0 0 74 No 19 100 0.01 NP n/a n/a 0 Beryllium (mg/L) YGWA-2I (bg) Ω 74 No 19 100 n/a n/a 0.01 NP 0 NP Beryllium (mg/L) YGWA-30I (bg) -13 No 19 89.47 n/a n/a 0.01 0 Beryllium (mg/L) YGWA-3D (bg) 0 74 No 19 100 n/a n/a 0.01 NP Beryllium (mg/L) YGWA-3I (bg) 0 -10 -74 No 19 94.74 n/a n/a 0.01 NΡ Selenium (mg/L) YGWA-17S (bg) 0.0004358 94 81 Yes 20 70 n/a n/a 0.01 NP YGWA-18I (bg) 0 0 87 NP Selenium (mg/L) No 21 100 n/a 0.01 n/a Selenium (mg/L) YGWA-18S (bg) 0 0 87 No 21 100 0.01 NΡ 0 YGWA-20S (bg) 0 NP Selenium (mg/L) 87 No 21 100 n/a n/a 0.01 Selenium (mg/L) YGWA-21I (bg) 0 37 87 No 21 90.48 n/a 0.01 NP Selenium (mg/L) YGWA-39 (bg) 0 2 63 No 17 94.12 0.01 NP n/a n/a Selenium (mg/L) YGWA-40 (bg) -0.000656 -47 -63 No 17 35.29 0.01 NP NP YGWA-4I (bg) 0 21 0.01 Selenium (mg/L) 3 87 90.48 No n/a n/a Selenium (mg/L) YGWA-5D (bg) 0 0 87 No 21 100 0.01 NP YGWA-5I (bg) 0 NP Selenium (mg/L) 18 87 No 21 95.24 n/a n/a 0.01 Selenium (mg/L) YGWC-38 -0.055 -107 Yes 16 0 n/a n/a 0.01 NP YGWA-47 (bg) 0 83 33 NP Selenium (mg/L) 17 38 Nο 12 n/a n/a 0.01 0 0 NP Selenium (mg/L) GWA-2 (bg) 199 No 37 100 n/a n/a 0.01 YGWA-14S (bg) 0 74 0.01 NP Selenium (mg/L) 42 No 19 68.42 n/a n/a 0 NP Selenium (mg/L) YGWA-1D (bg) 0 No 19 100 n/a n/a 0.01 Selenium (mg/L) YGWA-1I (bg) 0 0 74 No 19 100 n/a n/a 0.01 NP Selenium (mg/L) YGWA-2I (bg) 0 0 74 No 19 100 n/a n/a 0.01 NP Selenium (mg/L) YGWA-30I (bg) 0 0 74 No 19 100 n/a n/a 0.01 NP YGWA-3D (bg) 0 0 74 100 0.01 NP Selenium (mg/L) No 19 n/a n/a Selenium (mg/L) YGWA-3I (bg) 0 0 74 No 19 100 n/a n/a 0.01 NP NP Selenium (mg/L) PZ-37 -0.003058 -43 No 13 0 0.01 n/a n/a



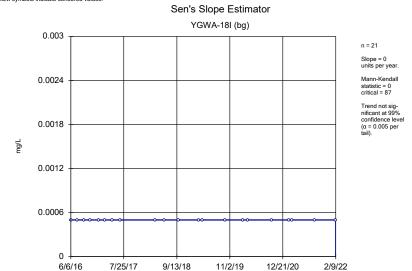
Constituent: Beryllium Analysis Run 4/19/2022 5:42 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

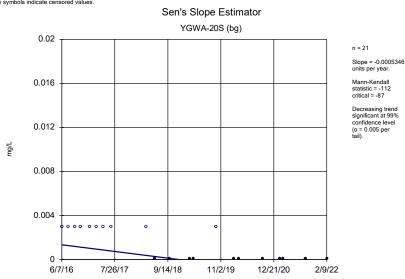


Constituent: Beryllium Analysis Run 4/19/2022 5:42 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

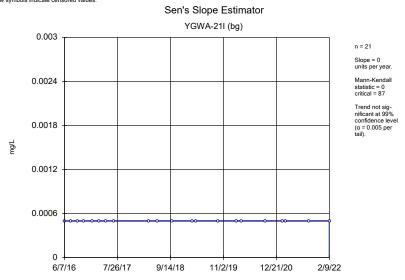
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

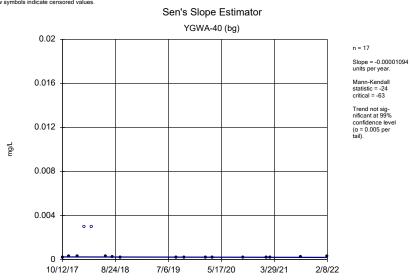


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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



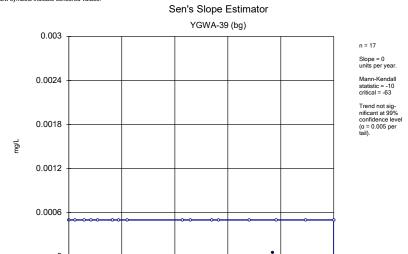
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6





Constituent: Beryllium Analysis Run 4/19/2022 5:42 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Constituent: Beryllium Analysis Run 4/19/2022 5:42 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

5/16/20

3/28/21

7/5/19

2/8/22

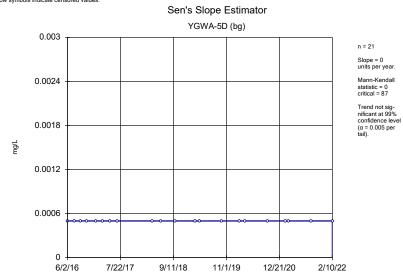
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10/11/17

8/23/18

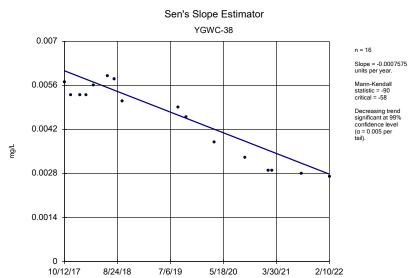


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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



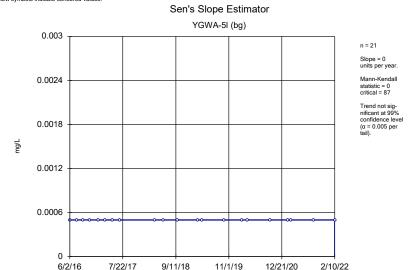
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG



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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

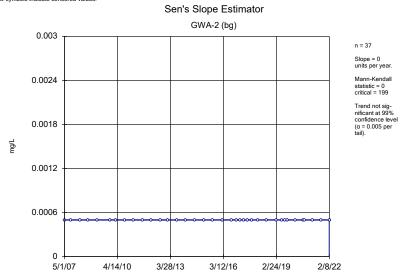
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

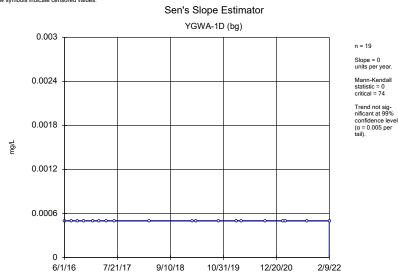


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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



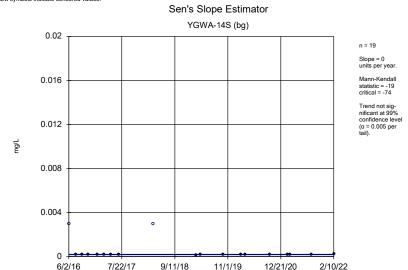
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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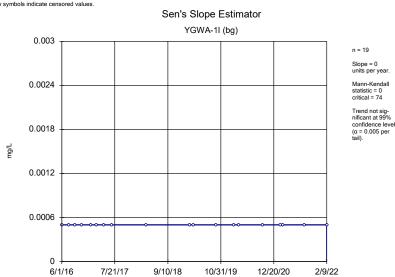


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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

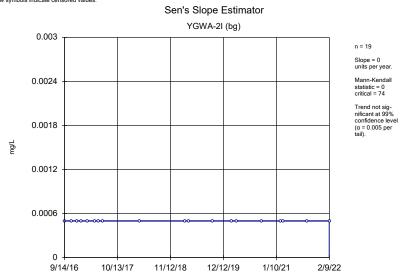
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

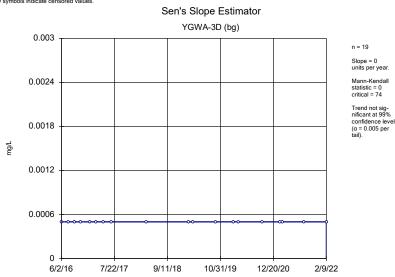


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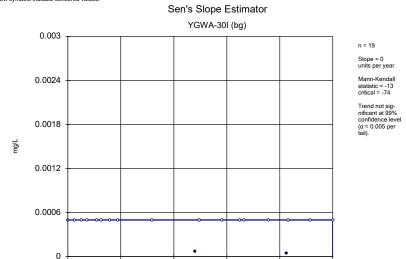
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6





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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Constituent: Beryllium Analysis Run 4/19/2022 5:42 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

11/2/19

12/22/20

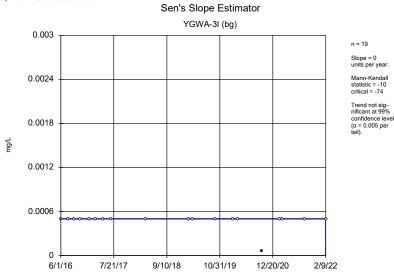
2/11/22

9/12/18

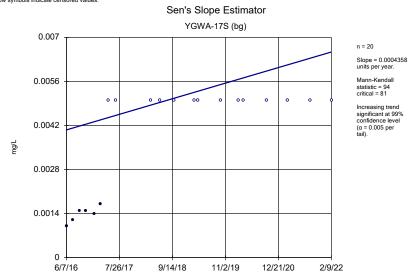
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6/2/16

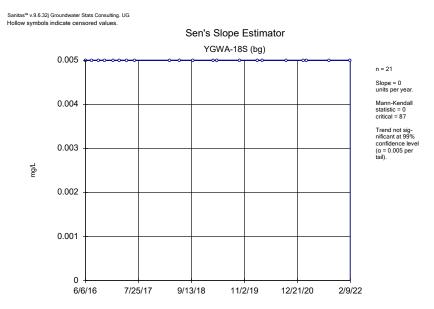
7/23/17



Constituent: Beryllium Analysis Run 4/19/2022 5:42 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Selenium Analysis Run 4/19/2022 5:42 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Selenium Analysis Run 4/19/2022 5:43 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

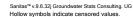


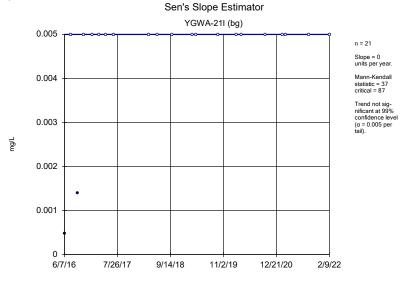
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6





Constituent: Selenium Analysis Run 4/19/2022 5:43 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

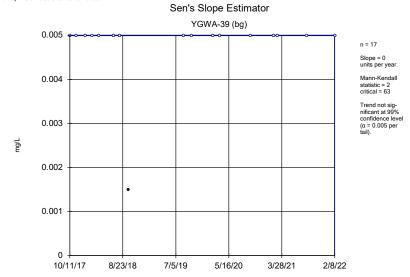




Constituent: Selenium Analysis Run 4/19/2022 5:43 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

#### Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG Hollow symbols indicate censored values Sen's Slope Estimator YGWA-40 (bg) 0.005 n = 17 Slope = -0.000656 units per year. 0.004 Mann-Kendall statistic = -47 critical = -63 Trend not sig-nificant at 99% confidence level 0.003 (α = 0.005 per tail). mg/L 0.002 0.001 10/12/17 8/24/18 7/6/19 5/17/20 3/29/21 2/8/22

Constituent: Selenium Analysis Run 4/19/2022 5:43 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Selenium Analysis Run 4/19/2022 5:43 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



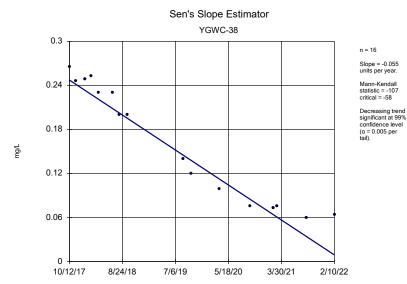


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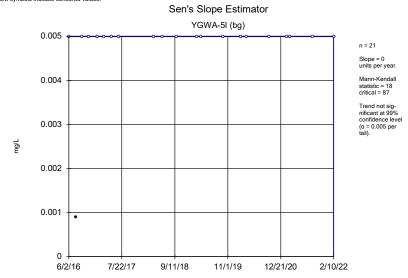


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Sanitas™ v.9.6.32j Groundwater Stats Consulting. UG

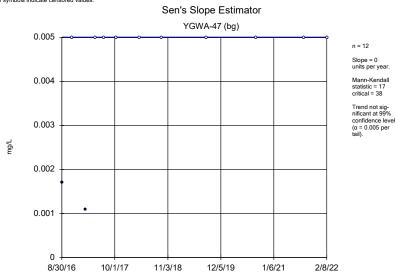


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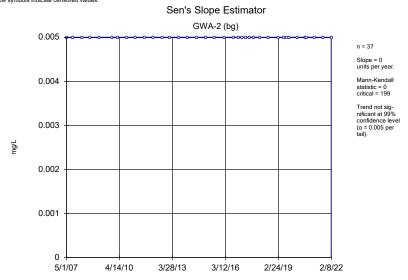


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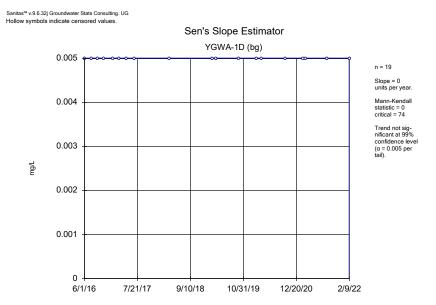




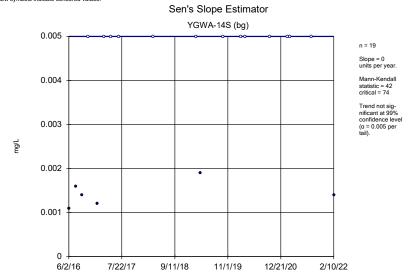
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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Selenium Analysis Run 4/19/2022 5:43 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

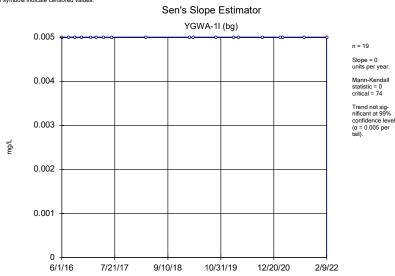


Constituent: Selenium Analysis Run 4/19/2022 5:43 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Selenium Analysis Run 4/19/2022 5:43 PM View: Appendix IV Trend Tests
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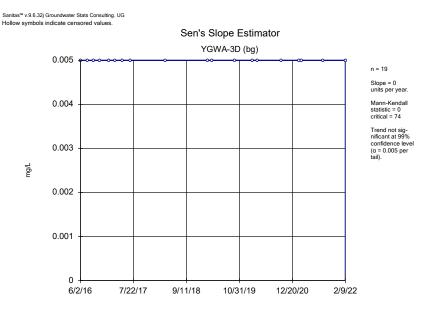




Constituent: Selenium Analysis Run 4/19/2022 5:43 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6



Constituent: Selenium Analysis Run 4/19/2022 5:43 PM View: Appendix IV Trend Tests
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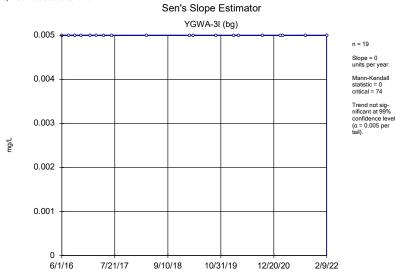


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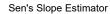


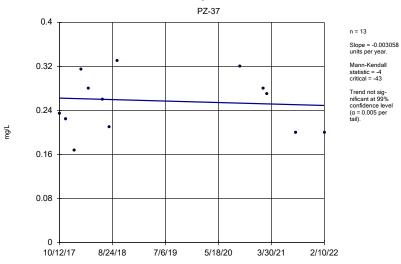
Constituent: Selenium Analysis Run 4/19/2022 5:43 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6





Constituent: Selenium Analysis Run 4/19/2022 5:43 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6





Constituent: Selenium Analysis Run 4/19/2022 5:43 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

# FIGURE J.

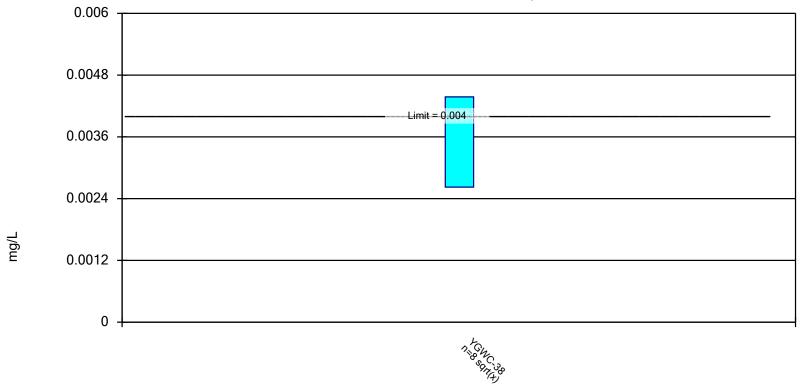
# Confidence Interval - Beryllium YGWC-38

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/28/2022, 1:35 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	<u>N</u>	Mean	Std. Dev.	%NDs	ND Adj.	Transform	n <u>Alpha</u>	Method
Beryllium (mg/L)	YGWC-38	0.004376	0.002624	0.004	No	8	0.003488	0.0008576	0	None	sqrt(x)	0.01	Param.

#### Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 4/28/2022 1:34 PM View: Appendix IV - Beryllium

Constituent: Beryllium (mg/L) Analysis Run 4/28/2022 1:35 PM View: Appendix IV - Beryllium Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-38
8/22/2019	0.0049
10/9/2019	0.0046
3/25/2020	0.0038
9/25/2020	0.0033
2/9/2021	0.0029 (J)
3/4/2021	0.0029
8/26/2021	0.0028
2/10/2022	0.0027
Mean	0.003488
Std. Dev.	0.0008576
Upper Lim.	0.004376
Lower Lim.	0.002624

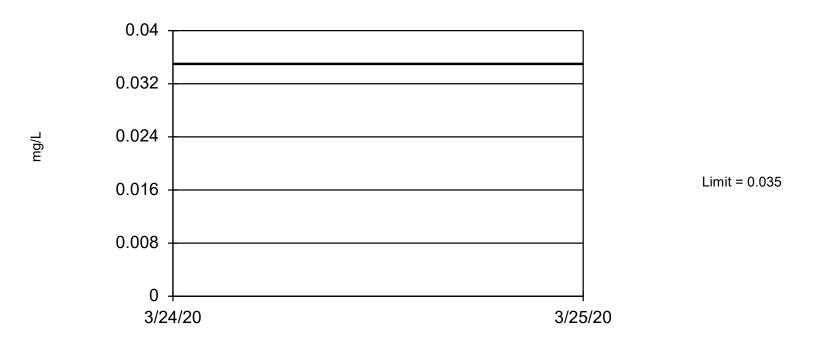
# FIGURE K.

# Upper Tolerance Limit Summary Table - Cobalt

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/28/2022, 1:18 PM

Constituent	Well	Upper Lii	m. Lower Lir	m. Date	Obse	rv. Sig. Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	<u>Alpha</u>	Method
Cobalt (mg/L)	n/a	0.035	n/a	n/a	n/a	n/a 307	n/a	n/a	69.71	n/a	n/a	NaN	NP Inter(NDs)

Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 307 background values. 69.71% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Cobalt Analysis Run 4/28/2022 1:18 PM View: Appendix IV - UTLs Cobalt

# FIGURE L.

YATES AMA-R6 GWPS - JUNE 2020								
		CCR-Rule	Background					
Constituent Name	MCL	Specified	Limit	GWPS				
Cobalt, Total (mg/L)		0.006	0.035	0.035				

<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 M.

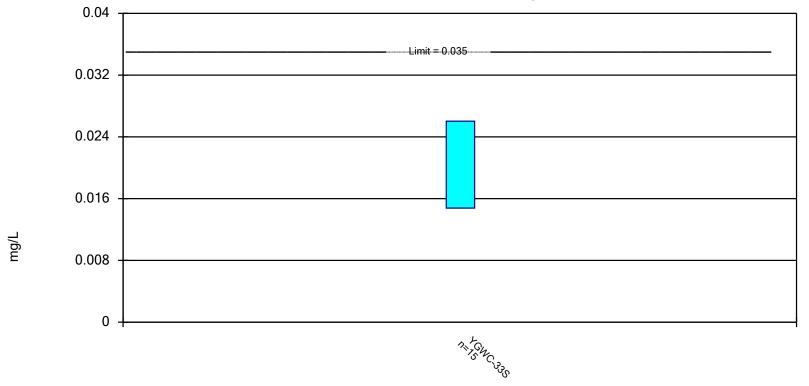
## Confidence Interval - Cobalt YGWC-33S

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/28/2022, 1:23 PM

<u>Constituent</u>	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	<u>N</u>	<u>Mean</u>	Std. Dev.	%NDs	ND Adj.	Transform	n <u>Alpha</u>	Method
Cobalt (mg/L)	YGWC-33S	0.02603	0.01477	0.035	No	15	0.0204	0.008309	0	None	No	0.01	Param.

#### Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 4/28/2022 1:22 PM View: Appendix IV - Cobalt

Constituent: Cobalt (mg/L) Analysis Run 4/28/2022 1:23 PM View: Appendix IV - Cobalt Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-33S
6/8/2016	0.037
8/1/2016	0.0297
9/21/2016	0.0237
11/14/2016	0.0144
1/17/2017	0.0095 (J)
3/1/2017	0.0125
5/3/2017	0.0151
7/10/2017	0.0121
3/30/2018	0.013
6/12/2018	0.014
9/26/2018	0.023
3/6/2019	0.028
4/4/2019	0.031
9/26/2019	0.023
3/25/2020	0.02
Mean	0.0204
Std. Dev.	0.008309
Upper Lim.	0.02603
Lower Lim.	0.01477

#### Appendix III Statistically Significant Increase Summary (February 2022)

Appendix III Parameter	Monitoring Wells
Boron	YGWC-23S, YGWC-38, YGWC-41, YGWC-42, YGWC-43
Calcium	YGWC-38, YGWC-42
Sulfate	YGWC-38, YGWC-42
Total Dissolved Solids	YGWC-38, YGWC-41, YGW-42, YGWC-43

Arcadis U.S., Inc. 2839 Paces Ferry Road, Suite 900 Atlanta Georgia 30339 Phone: 770 431 8666

Fax: 770 435 2666 www.arcadis.com