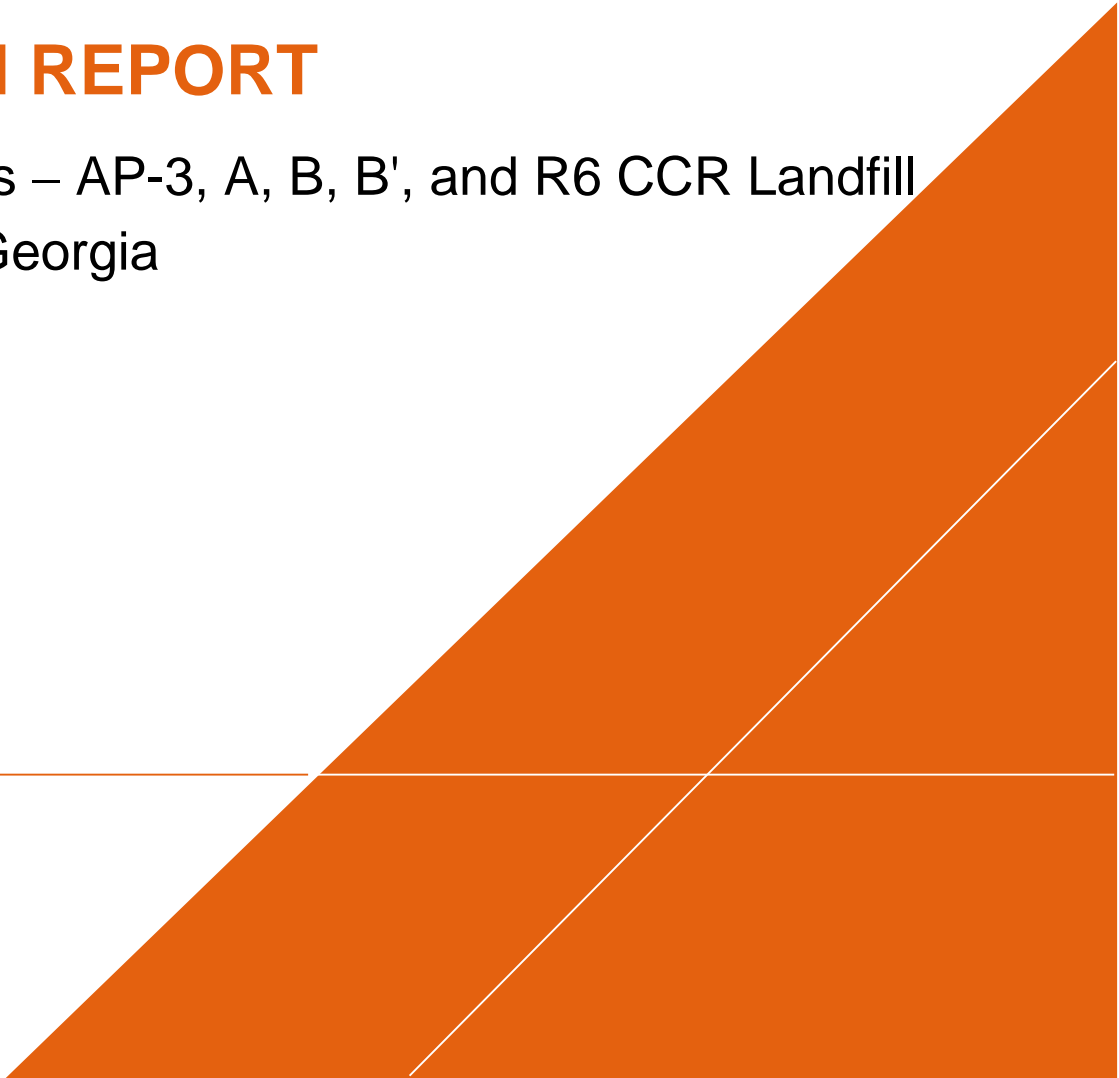




2021 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

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

August 31, 2021

A large, solid orange triangle is positioned in the bottom right corner of the page, pointing towards the top right. A thin white diagonal line runs from the bottom left corner of the triangle towards the top right corner. A thin white horizontal line is located near the bottom of the page, extending from the left edge to the right edge of the orange triangle.

2021 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

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



Alexandra Simpson
Staff Geologist

Prepared for:

Georgia Power Company
Newnan, Georgia
Coweta County

Prepared by:

Arcadis U.S., Inc.
2839 Paces Ferry Road
Suite 900
Atlanta
Georgia 30339
Tel 770 431 8666
Fax 770 435 2666



Geoffrey Gay, P.E.
Technical Expert (Eng) / Project Manager

Date:

August 31, 2021

2021 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT PLANT YATES – AP-3, A, B, B', and R6 CCR Landfill

SUMMARY

This summary of the 2021 Semiannual Monitoring and Corrective Action Report provides the status of the groundwater monitoring and corrective action program January through June 2021 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 monitoring system comprising 19 upgradient and 8 downgradient wells. Routine sampling and reporting began in 2017 after the completion of eight background sampling events. Based on groundwater conditions at the Site, an assessment monitoring program was established on January 14, 2018 at AP-3, B, and B'; in September 2019 for AP-A; and on November 13, 2019 for the R6 Landfill. An assessment of corrective measures (ACM) was initiated on February 12, 2019 for the AP-3, B, and B' units. AP-A was added to the ACM on June 12, 2019, and the R6 CCR Landfill was incorporated on January 31, 2020. During the 2021 first semiannual reporting period, the Site remained in assessment monitoring.

During the first half of the 2021 reporting period, Arcadis conducted two groundwater sampling events: an initial assessment event in February and a semiannual event in March. Groundwater samples were submitted to Pace Analytical Services, LLC, for analysis. Per the CCR Rule, groundwater results for March 2021 data were evaluated in accordance with the certified statistical methods. That evaluation showed statistically significant values of Appendix III² and Appendix IV³ parameters⁴ in the wells identified in the following table.



Plant Yates and the Site

¹ 80 Federal Register (FR) 21468, Apr. 17, 2015, as amended at 81 FR 51807, Aug. 5, 2016; 83 FR 36452, July 30, 2018; and 85 FR 53561, Aug. 28, 2020

² Boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids (TDS)

³ Antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, selenium, thallium, and radium 226 + 228

⁴ A state statistically significant level SSL-related constituent is determined by comparing the confidence intervals developed to either the constituent's MCL, if available, or the calculated background interwell prediction limit. A federal 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.

2021 SEMI-ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
 PLANT YATES – AP-3, A, B, B', and R6 CCR Landfill

Appendix III Parameter	March 2021
Boron	YGWC-23S, YGWC-38, YGWC-41, YGWC-42, YGWC-43
Calcium	YGWC-38, YGWC-42
Chloride	YGWC-24SA
pH	YGWC-41
Sulfate	YGWC-38, YGWC-42, YGWC-43
Total Dissolved Solids	YGWC-38, YGWC-41, YGWC-42, YGWC-43
Appendix IV Parameter ⁴	March 2021
Beryllium	<i>Federal and State: YGWC-38</i>
Selenium	<i>Federal and State: YGWC-38, PZ-37</i>

The beryllium SSL at well YGWC-38 is horizontally delineated by downgradient wells PZ-37 and YGWC-23S. Beryllium SSL at well YGWC-38 is vertically delineated by well YAMW-5. The selenium SSL at well YGWC-38 is horizontally delineated by downgradient wells YGWC-23S and YGWC-36A and vertically by the newly installed PZ-37D. Based on review of the Appendix III and Appendix IV statistical results for the groundwater monitoring and corrective action program from January through June 2021, the Site will continue in assessment monitoring. 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.

⁴ A state statistically significant level SSL-related constituent is determined by comparing the confidence intervals developed to either the constituent's MCL, if available, or the calculated background interwell prediction limit. A federal SSL-related constituent is determined by comparing the confidence intervals developed to either the constituent's MCL, if available, the USEPA RSL, if no MCL is available, or the calculated background interwell prediction limit.

CONTENTS

Acronyms and Abbreviations	iii
Professional Certification	
1 Introduction.....	1
1.1 Background.....	1
1.2 Regional Geology and Hydrogeologic Setting.....	2
1.3 Groundwater Monitoring Well Network and CCR Unit Description	2
2 Groundwater Monitoring.....	3
2.1 Monitoring Well Installation and Maintenance	3
2.2 Assessment Monitoring	3
2.3 Other Groundwater Sampling.....	4
2.4 Assessment of Corrective Measures.....	4
3 Sampling Methodology and Analysis	4
3.1 Groundwater Flow Direction, Gradient, and Velocity	4
3.2 Groundwater Sampling	5
3.3 Laboratory Analyses	5
3.4 Data Quality Assurance/Quality Control and Validation	6
4 Statistical Analysis	6
4.1 Statistical Methods.....	7
4.1.1 Appendix III Statistical Methods	7
4.1.2 Assessment Monitoring Statistical Methods	7
4.2 Statistical Analysis Results.....	8
4.2.1 Appendix III Monitoring Constituents	8
4.2.2 Appendix IV Assessment Monitoring Constituents	9
5 Monitoring Program Status	9
6 Conclusions and Recommendations	9
7 References	10

TABLES

Table 1A. Monitoring Well Network Summary

Table 1B. Non-Network Well Summary

Table 2. Groundwater Sampling Plan

Table 3. Summary of Groundwater Elevations

Table 4. Groundwater Flow Velocity Calculations – March 2021

Table 5. Summary of Groundwater Monitoring Parameters

Table 6. Groundwater Analytical Data – February and March 2021

Table 7. Background Levels and Groundwater Protection Standards

FIGURES

Figure 1. Site Location Map

Figure 2. Plant Yates CCR Removal Areas

Figure 3. Well Location Map

Figure 4. Groundwater Elevation Map – February 2021

Figure 5. Groundwater Elevation Map – March 2021

APPENDICES

A Semiannual Remedy Selection and Design Progress Report

B Field Sampling Forms (February and March 2021)

C Well Installation Report

D Analytical Laboratory Data and Validation Reports (February and March 2021)

E Statistical Analysis

ACRONYMS AND ABBREVIATIONS

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

PROFESSIONAL CERTIFICATION

This 2021 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.

Arcadis U.S., Inc.



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

8-31-21
Date

1 INTRODUCTION

This 2021 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 and March 2021. 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 2021 annual monitoring for Appendix IV parameters of 40 CFR 257, a semiannual monitoring event conducted in March 2021, and activities completed through June 2021 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. The current semiannual remedy selection progress report for the combined groundwater monitoring unit at AP-3, A, B, B', and the R6 Landfill addresses beryllium and selenium SSLs and is included in **Appendix A**.

This 2021 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^{-3} to 10^{-4} centimeters per second, based on multiple rising-head and falling-head slug tests (ACC 2019). This indicates a fairly uniform medium across the saprolite and weathered rock horizon. The hydraulic conductivity values from the field tests fall within a range consistent with that of Piedmont overburden (Newell et al. 1990).

1.3 Groundwater Monitoring Well Network and CCR Unit Description

Pursuant to 40 CFR § 257.91, a multi-unit groundwater monitoring system was installed within the uppermost aquifer at the site. The multi-unit monitoring system is designed to monitor groundwater passing the waste boundary of the CCR units within the uppermost aquifer. Wells are located to monitor upgradient and downgradient conditions based on groundwater flow direction. The 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 2021 and presents the status of the monitoring program. Groundwater sampling was performed in accordance with 40 CFR § 257.93. Samples were collected from each well in the certified monitoring system shown on **Figure 3**.

Groundwater sampling events conducted by Arcadis U.S., Inc. (Arcadis) in February and March 2021 at AP-3, A, B, B', and the R6 CCR Landfill are summarized in **Table 2**. Field sampling logs are provided in **Appendix B**.

2.1 Monitoring Well Installation and Maintenance

Deep bedrock piezometer PZ-37D was installed in April 2021 to delineate selenium and monitor the portion of the bedrock aquifer below PZ-37. A Well Installation Report was submitted to GAEPD under a separate cover on June 30, 2021. The PZ-37D analytical data are included in **Appendix D** and discussed in the Semiannual Remedy Selection and Design Progress Report (**Appendix A**). A copy of the Well Installation Report is included in **Appendix C**. Other monitoring well-related activities were limited to visually inspecting well conditions prior to sampling, recording site conditions, and performing exterior maintenance to provide safe access for sampling.

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.

Monitoring wells at AP-3, A, B, B' and the R6 CCR Landfill were sampled for Appendix IV parameters in February 2021 pursuant to 40 CFR § 257.95(b). In accordance with 40 CFR § 257.95(d), a semiannual assessment monitoring event occurred in March 2021 in which samples were collected and analyzed for Appendix III parameters and Appendix IV parameters detected at concentrations exceeding the laboratory method detection limit (MDL) during the February 2021 event. 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, additional samples were collected from wells YAMW-1 through YAMW-5, PZ-35, and PZ-37 in February and March 2021. To further delineate selenium concentrations vertically near PZ-37, a sample was collected following installation of newly installed well PZ-37D. 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** and discussed in the Semiannual Remedy Selection and Design Progress Report included in **Appendix A**.

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 Semiannual Remedy Selection and Design Progress Report was submitted on December 12, 2019 and updated on January 31, 2020. January 31, 2020 is also the date that the R6 CCR Landfill was incorporated into the ACM. **Appendix A** contains the Semiannual Remedy Selection and Design Progress Report.

3 SAMPLING METHODOLOGY AND ANALYSIS

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

3.1 Groundwater Flow Direction, Gradient, and Velocity

Before the February and March 2021 assessment sampling events, static water levels were recorded from piezometers and wells in the well network at AP-3, A, B, B' and the R6 CCR Landfill. Water levels were collected from the monitoring wells and piezometers as noted in **Table 3**.

Saprolite, transition zone, and shallow bedrock groundwater elevation data were used to prepare potentiometric surface elevation contour maps for February and March 2021 (**Figures 4** and **5**, respectively). Groundwater elevations ranged from 732.56 feet (PZ-35) to 801.53 feet (YGWA-39). 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. Deeper bedrock groundwater elevations vary across the site, ranging from 728.60 feet (YGWC-43) to 793.34 feet (YGWC-40). It is interpreted that these variations are attributed to bedrock geologic structural controls, and therefore do not reflect the surficial aquifer potentiometric surface. Based on this interpretation, the deep bedrock potentiometric surface was not used for contouring.

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

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

where:

v = groundwater seepage velocity

k = hydraulic conductivity

dh/dl = hydraulic gradient

n_e = effective porosity

Groundwater flow velocities were calculated for the Site based on hydraulic gradients, average hydraulic conductivity based on previous slug test data, and an estimated effective porosity of 0.20 (based on a review of several sources including Driscoll 1986, USEPA 1989, and Freeze and Cherry 1979). Calculated groundwater flow velocities for February and March 2021 are presented in **Table 4**. The calculated average linear flow velocity for this reporting period is 26 feet per year.

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.

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

During the February 2021 sampling event, the AP-3, A, B, B', and R6 CCR Landfill wells were sampled for analysis of Appendix IV parameters according to 40 CFR § 257.95(b). Sampling locations per field event are summarized in **Table 2**. **Table 5** provides a summary of the constituents monitored during the events. Groundwater samples collected during the semiannual event in March 2021 were analyzed for Appendix III parameters as well as those Appendix IV parameters detected above the laboratory MDL during the February 2021 event, in accordance with 40 CFR § 257.95(d). Thallium was not detected

above the laboratory MDL during the February 2021 annual assessment event. Therefore, it was not sampled for in March 2021. The methods used for groundwater sample analyses are listed in the analytical laboratory reports included in **Appendix D**.

Analytical data collected during the 2021 sampling events are 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 D**.

3.4 Data Quality Assurance/Quality Control and Validation

During each sampling event, quality assurance/quality control (QA/QC) samples were collected at a rate of one 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 D** 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 D**.

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 assessment monitoring event (March 2021) 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 March 2021 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:

2021 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
PLANT YATES – AP-3, A, B, B', and R6 CCR Landfill

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

USEPA revised the federal CCR Rule on July 30, 2018, providing GWPSs for cobalt, lead, lithium, and molybdenum as described above in 40 CFR 257.95(h)(2). Those updated GWPSs have not yet been incorporated into the current GAEPD Rules for Solid Waste Management 391-3-4-.10(6)(a); therefore, background concentrations are considered when determining the GWPS for constituents for which an MCL has not been established (or where the background level is higher than the MCL). Under the existing GAEPD rules, the GWPS is:

- The MCL; or
- The background concentration when an MCL is not established or when the background concentration is higher than the MCL.

In accordance with the above federal and state rules, 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 March 2021 sampling event as well as the GWPSs established under federal and state rules.

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 first 2021 semiannual assessment monitoring events for the combined AP-3, A, B, B', and R6 CCR Landfill were statistically analyzed in accordance with the Statistical Analysis Plan (Groundwater Stats Consulting 2019).

4.2.1 Appendix III Monitoring Constituents

Based on review of the Appendix III statistical analysis from the March 2021 sampling event presented in **Appendix E**, Appendix III constituents have not returned to background levels; therefore, assessment monitoring should continue pursuant to 40 CFR § 257.95(f). **Appendix E** includes a table summarizing site monitoring wells for which analytical sampling results have identified constituents with SSIs.

4.2.2 Appendix IV Assessment Monitoring Constituents

Statistical analysis of the March 2021 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:

- Beryllium: YGWC-38; and
- Selenium: YGWC-38 and PZ-37.

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 F**.

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 beryllium and selenium.

Horizontal and vertical delineation of current and historical SSLs of beryllium, cobalt, and selenium is complete. The ACM efforts completed during the reporting period are summarized in the Semiannual Remedy Selection and Design Progress Report in **Appendix A**. Georgia Power will continue to include future semiannual progress reports with each groundwater monitoring and corrective action report.

6 CONCLUSIONS AND RECOMMENDATIONS

This 2021 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 beryllium in well YGWC-38 and selenium in well YGWC-38 and delineation well PZ-37. Delineation data for the site indicate that constituents showing SSLs are spatially and vertically delineated onsite to concentrations below the GWPSs.

Assessment monitoring at AP-3, A, B, B', and the R6 CCR Landfill will continue pursuant to 40 CFR § 257.95. In addition, ACM efforts of the multi-unit site will continue as required by 40 CFR § 257.96. In accordance with GAEPD Rule 391-3-4-.10(6)(c), the next semiannual monitoring event is scheduled for August 2021.

7 REFERENCES

- ACC. 2019. Plant Yates, Ash Ponds 3, A, B and B' – 2019 Assessment of Corrective Measures Report. Prepared for Georgia Environmental Protection Division. July.
- ACC. 2020. Plant Yates, Ash Ponds 3, A, B, and B'/R6 CCR Landfill – 2019 Annual Groundwater Monitoring and Corrective Action Report. Prepared for Georgia Environmental Protection Division. January.
- Driscoll, F.G. 1986. Groundwater and Wells, Johnson Screens, Saint Paul, Minnesota, 1089 pp.
- Freeze, R.A. and J.A. Cherry. 1979. Groundwater, Prentice-Hall, Englewood Cliffs, New Jersey, 604 pp.
- Groundwater Stats Consulting. 2019. Statistical Analysis Plan – Plant Yates Ash Pond 3 and B/B'. Prepared for Georgia Environmental Protection Division.
- Harned, D.A., and Daniel D.D., III, 1992. The transition zone between bedrock and saprolite – Conduit for contamination? Ground water in the Piedmont – Proceedings of a conference on ground water in the Piedmont of the eastern United States: Clemson, S.C. p. 336-348.
- Newell, C.J., L.P. Hopkins, and P.B. Bedient. 1990. A Hydrogeologic Database for Ground-Water Modeling. *Ground Water*. 28(5):703-714.
- USEPA. 1989. RCRA Facility Investigation (RFI) Guidance, Interim Final, Vol I. [EPA 530/SW-89-031], OWSER Directive 9502.00-6DUSEPA. 1989. Risk Assessment Guidance for Superfund (RAGS), Vol. I: Human Health Evaluation Manual (Part A) (540-1-89-002).
- USEPA. 2009. Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance. Office of Resource Conservation and Recovery – Program Implementation and Information Division. March.
- USEPA. 2011. Data Validation Standard Operating Procedures. Science and Ecosystem Support Division. Region IV. Athens, GA. September.
- USEPA. 2017. National Functional Guidelines for Inorganic Superfund Methods Data Review. Office of Superfund Remediation and Technology Innovation. OLEM 9355.0-135 [EPA-540-R-2017-001]. Washington, DC. January.

TABLES

2021 Semiannual Groundwater and Corrective Action Report
Plant Yates AP-3, A, B, B' and R6 CCR Landfill
Newnan, GA




Table 1A - Monitoring Well Network Summary
2021 Semiannual Groundwater Monitoring and Corrective Action Report
Plant Yates - AP-3, A, B, B' and R6 CCR Landfill



Well ID	Installation Date	Top of Casing Elevation (ft)	Depth to Bottom (ft bTOC)	Bottom Elevation (ft)	Depth to Top of Screen (ft bTOC)	Top of Screen Elevation (ft)	Hydraulic Location
Upgradient Wells							
YGWA-4I	5/21/2014	784.21	48.81	735.40	38.51	745.70	Upgradient
YGWA-5I	5/21/2014	784.54	58.94	725.60	48.64	735.90	Upgradient
YGWA-5D	5/21/2014	784.53	129.13	655.40	78.83	706.00	Upgradient
YGWA-17S	9/10/2015	783.05	39.85	743.20	29.55	753.20	Upgradient
YGWA-18S	9/8/2015	790.57	39.97	750.60	29.97	760.90	Upgradient
YGWA-18I	9/8/2015	790.57	79.97	710.60	69.67	720.90	Upgradient
YGWA-20S	9/29/2015	767.12	29.52	737.60	19.22	747.90	Upgradient
YGWA-21I	9/28/2015	783.70	79.90	703.80	69.60	714.10	Upgradient
YGWA-39	7/7/2016	818.19	68.59	749.60	58.09	760.10	Upgradient
YGWA-40	7/7/2016	815.73	48.23	767.50	37.73	778.00	Upgradient
YGWA-1I	5/20/2014	836.60	53.60	783.00	43.30	793.30	Upgradient
YGWA-1D	5/20/2014	837.25	128.85	708.40	78.05	759.20	Upgradient
YGWA-2I	5/20/2014	866.25	63.75	802.50	53.45	812.80	Upgradient
YGWA-3I	5/20/2014	796.55	59.05	737.50	48.85	747.70	Upgradient
YGWA-3D	5/20/2014	796.78	134.18	662.60	83.88	712.90	Upgradient
YGWA-14S	5/20/2014	748.76	34.96	713.80	24.66	724.10	Upgradient
YGWA-30I	9/23/2015	762.58	59.48	703.10	49.18	713.40	Upgradient
YGWA-47	7/11/2016	758.22	59.19	696.41	48.62	709.60	Upgradient
GWA-2	4/12/2007	805.62	52.02	753.60	41.82	763.80	Upgradient
AP-3, A, B and B'							
YGWC-23S	9/21/2015	764.91	38.91	726.00	28.61	736.30	Downgradient
YGWC-24SA	6/4/2020	765.00	57.00	708.00	47.00	718.00	Downgradient
YGWC-36A	9/22/2020	740.88	51.20	689.68	41.18	699.70	Downgradient
YGWC-49	7/13/2016	782.73	78.53	704.20	67.63	715.10	Downgradient
R6 CCR Landfill							
YGWC-38	7/23/2016	799.69	49.59	749.10	39.59	760.10	Downgradient
YGWC-41	7/8/2016	803.92	66.82	736.60	56.82	747.10	Downgradient
YGWC-42	7/8/2016	797.86	59.76	738.10	49.36	748.50	Downgradient
YGWC-43	7/9/2016	744.96	79.66	665.30	69.16	675.80	Downgradient

Notes:

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

Acronyms and Abbreviations:

bTOC = below top of casing

ft = feet

Table 1B - Non- Network Well Summary
2021 Semiannual Monitoring and Corrective Action Report
Plant Yates - AP-3, A, B, B' and R6 CCR Landfill



Well ID	Installation Date	Top of Casing Elevation (ft)	Depth to Bottom (ft bTOC)	Bottom Elevation (ft)	Depth to Top of Screen (ft bTOC)	Top of Screen Elevation (ft)	Purpose
AP-3, A, B and B'							
YGWA-6S	5/19/2014	782.47	39.87	742.60	29.57	752.90	Piezometer
YGWA-6I	5/19/2014	782.73	69.03	713.70	58.73	724.00	Piezometer
YAMW-1	9/19/2018	743.83	69.93	673.90	59.93	683.90	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
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

Notes:

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

Acronyms and Abbreviations:

bTOC = below top of casing

ft = feet

**Table 2 - Groundwater Sampling Plan
2021 Semiannual Groundwater Monitoring and Corrective Action Report
Plant Yates - AP-3, A, B, B' and R6 CCR Landfill**



Well ID	Hydraulic Location	Assessment ¹ Monitoring	2020 First Semiannual Sampling ²
		February 8-10, 2021	March 2-4, 2021
AP-3, A, B and B'			
YGWA-4I	Upgradient	X	X
YGWA-5I	Upgradient	X	X
YGWA-5D	Upgradient	X	X
YGWA-17S	Upgradient	X	X
YGWA-18S	Upgradient	X	X
YGWA-18I	Upgradient	X	X
YGWA-20S	Upgradient	X	X
YGWA-21I	Upgradient	X	X
YGWC-23S	Downgradient	X	X
YGWC-24SA	Downgradient	X	X
YGWC-36A	Downgradient	X	X
YGWC-49	Downgradient	X	X
R6 CCR Landfill			
YGWA-39	Upgradient	X	X
YGWA-40	Upgradient	X	X
YGWC-38	Downgradient	X	X
YGWC-41	Downgradient	X	X
YGWC-42	Downgradient	X	X
YGWC-43	Downgradient	X	X

Notes:

1. All wells analyzed per Appendix IV.

2. Appendix III and detected Appendix IV.

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

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

USEPA = United States Environmental Protection Agency

CCR = Coal Combustion Residuals

Table 3 - Summary of Groundwater Elevations
2021 Semiannual Groundwater Monitoring and Corrective Action Report
Plant Yates - AP-3, A, B, B' and R6 CCR Landfill



Well ID	Date	TOC Elevation (ft)	Depth to Water (ft bTOC)	Groundwater Elevation (ft)
February 2021				
YGWA-4I	2/8/2021	784.21	22.62	761.59
YGWA-5I	2/8/2021	784.54	18.75	765.79
YGWA-5D	2/8/2021	784.53	21.77	762.76
YGWA-6S	2/8/2021	782.47	17.54	764.93
YGWA-6I	2/8/2021	782.73	18.90	763.83
YGWA-17S	2/8/2021	783.05	11.85	771.20
YGWA-18S	2/8/2021	790.57	19.55	771.02
YGWA-18I	2/8/2021	790.57	22.90	767.67
YGWA-20S	2/8/2021	767.12	11.19	755.93
YGWA-21I	2/8/2021	783.70	31.21	756.10
YGWC-23S	2/8/2021	794.91	16.95	747.44
YGWC-24SA	2/8/2021	765.00	28.00	737.00
YGWC-36A	2/8/2021	740.88	9.58	731.30
YGWC-38	2/8/2021	799.69	30.75	768.78
YGWA-39	2/8/2021	818.19	17.37	800.82
YGWA-40	2/8/2021	815.73	22.93	792.80
YGWC-41	2/8/2021	803.92	27.44	776.48
YGWC-42	2/8/2021	797.86	28.19	769.67
YGWC-43	2/8/2021	744.96	16.36	728.60
YGWC-49	2/8/2021	782.73	31.72	751.01
PZ-35	2/8/2021	743.81	11.25	732.56
PZ-04S	2/8/2021	784.25	24.13	760.12
PZ-05S	2/8/2021	784.64	18.69	765.95
PZ-06D	2/8/2021	782.02	21.72	760.30
PZ-24IA	2/8/2021	764.33	28.25	736.08
PZ-37	2/8/2021	760.78	12.55	746.40
PZ-48	2/8/2021	799.83	19.74	780.09
PZ-51	2/8/2021	744.30	7.36	736.94
YAMW-1	2/8/2021	743.83	11.07	732.76
YAMW-2	2/8/2021	781.04	20.79	760.25
YAMW-3	2/8/2021	796.05	35.46	760.59
YAMW-4	2/8/2021	805.59	31.09	774.50
YAMW-5	2/8/2021	788.90	13.48	775.42
March 2021				
YGWA-4I	3/2/2021	784.21	22.12	762.09
YGWA-5I	3/2/2021	784.54	18.19	766.35
YGWA-5D	3/2/2021	784.53	21.88	762.65
YGWA-6S	3/2/2021	782.47	17.87	764.60
YGWA-6I	3/2/2021	782.73	18.25	764.48
YGWA-17S	3/2/2021	783.05	11.38	771.67

Table 3 - Summary of Groundwater Elevations
2021 Semiannual Groundwater Monitoring and Corrective Action Report
Plant Yates - AP-3, A, B, B' and R6 CCR Landfill



Well ID	Date	TOC Elevation (ft)	Depth to Water (ft bTOC)	Groundwater Elevation (ft)
YGWA-18S	3/2/2021	790.57	18.94	771.63
YGWA-18I	3/2/2021	790.57	22.41	768.16
YGWA-20S	3/2/2021	767.12	11.28	755.84
YGWA-21I	3/2/2021	783.70	31.10	756.10
YGWC-23S	3/2/2021	794.91	16.59	747.44
YGWC-24SA	3/2/2021	765.00	27.45	737.55
YGWC-36A	3/2/2021	740.88	10.02	730.86
YGWC-38	3/2/2021	799.69	30.42	768.78
YGWA-39	3/2/2021	818.19	16.66	801.53
YGWA-40	3/2/2021	815.73	22.39	793.34
YGWC-41	3/2/2021	803.92	26.88	777.04
YGWC-42	3/2/2021	797.86	27.54	770.32
YGWC-43	3/2/2021	744.96	16.15	728.81
YGWC-49	3/2/2021	782.73	31.50	751.23
PZ-35	3/2/2021	743.81	11.14	732.67
PZ-04S	3/2/2021	784.25	23.74	760.51
PZ-05S	3/2/2021	784.64	18.14	766.50
PZ-06D	3/2/2021	782.02	21.22	760.80
PZ-24IA	3/2/2021	764.33	27.68	736.65
PZ-37	3/2/2021	760.78	11.93	746.40
PZ-48	3/2/2021	799.83	19.35	780.48
PZ-51	3/2/2021	744.30	6.98	737.32
YAMW-1	3/2/2021	743.83	10.80	733.03
YAMW-2	3/2/2021	781.04	19.75	761.29
YAMW-3	3/2/2021	796.05	34.58	761.47
YAMW-4	3/2/2021	805.59	30.32	775.27
YAMW-5	3/2/2021	788.90	13.03	775.87

Notes:

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

Acronyms and Abbreviations:

bTOC = below top of casing

ft = feet

TOC = top of casing

Equation

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

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

Values Used in Calculation

Value			Source
K _{max} :	3.70E-03	cm/sec	See note 1
	10	ft/day	
K _{min} :	9.70E+05	cm/sec	
	0.28	ft/day	
K _{avg} :	2.90E-04	cm/sec	
	0.8	ft/day	
Distance from:			
YGWA-40 to YGWA-42	1,098	ft	
YGWC-49 to PZ-24I	1,002	ft	
Groundwater Elevation			Date Collected:
YGWA-40	792.80	feet	February 2021
YGWC-42	769.67		
YGWC-49	751.01		
PZ-24I	736.08		
YGWA-40	793.34	feet	March 2021
YGWC-42	770.32		
YGWC-49	751.23		
PZ-24I	736.65		
i ₁ = 0.021	unitless	Hydraulic gradient from: YGWA-40 to YGWC-42 (Feb. 2021)	
i ₂ = 0.015	unitless	YGWC-49 to PZ-24I (Feb. 2021)	
i _{avg} = 0.018	unitless	Average	
i ₁ = 0.021	unitless	Hydraulic gradient from: YGWA-40 to YGWC-42 (Mar. 2021)	
i ₂ = 0.015	unitless	YGWC-49 to PZ-24I (Mar. 2021)	
i _{avg} = 0.018	unitless	Average	
n _e = 0.20	unitless	See note 2	

Minimum Linear Flow Velocity

February 2021

$$V_{min} = \frac{(0.28)(0.018)}{0.20}$$

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

March 2021

$$V_{min} = \frac{(0.28)(0.018)}{0.20}$$

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

Maximum Linear Flow Velocity

February 2021

$$V_{max} = \frac{(10)(0.018)}{0.20}$$

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

March 2021

$$V_{max} = \frac{(10)(0.018)}{0.20}$$

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

Average Linear Flow Velocity

February 2021

$$V_{avg} = \frac{(0.8)(0.018)}{0.20}$$

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

March 2021

$$V_{avg} = \frac{(0.8)(0.018)}{0.20}$$

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

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
2021 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
pH	Cadmium
Sulfate	Chromium
Total Dissolved Solids	Cobalt
	Fluoride
	Lead
	Lithium
	Mercury
	Molybdenum
	Combined Radium - 226/228
	Selenium
	<i>Thallium</i>

Notes:

Italicized groundwater monitoring parameters were not detected during the annual assessment event (February 2021) and therefore not included in March 2021 semiannual parameter list.

CFR = Code of Federal Regulations

Table 6 - Groundwater Analytical Data - February and March 2021
2021 Semiannual Groundwater Monitoring and Corrective Action Report
Plant Yates - A-3, A, B, B' and R6 CCR Landfill



	Analyte	YGWA-4I	YGWA-4I	YGWA-5D	YGWA-5D	YGWA-5I	YGWA-5I	YGWA-17S	YGWA-17S
		2/9/2021	3/3/2021	2/8/2021	3/2/2021	2/8/2021	3/2/2021	2/9/2021	3/3/2021
Appendix III	pH	6.06	6.21	7.66	7.15	5.67	5.63	5.62	5.52
	Boron	--	0.0056 J	--	0.0068 J	--	0.011 J	--	0.010 J
	Calcium	--	7.7	--	1.6	--	2.6	--	2.5
	Chloride	--	4.1	--	3.2	--	4.3	--	7.1
	Fluoride	< 0.050	< 0.050	0.055 J	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
	Sulfate	--	7.8	--	2.6	--	2.3	--	5.2
	Total Dissolved Solids	--	80.0	--	52.0	--	67.0	--	57.0
Appendix IV	Antimony	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028
	Arsenic	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078
	Barium	0.013	0.014	0.0079 J	0.014	0.020	0.019	0.016	0.017
	Beryllium	< 0.000046	< 0.000046	< 0.000046	< 0.000046	< 0.000046	< 0.000046	0.000094 J	0.000099 J
	Cadmium	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012
	Chromium	< 0.00055	0.0013 J	< 0.00055	< 0.00055	< 0.00055	< 0.00055	0.00098 J	0.00082 J
	Cobalt	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038
	Lead	< 0.000036	< 0.000036	0.00013 J	0.000051 J	0.000037 J	0.000092 J	< 0.000036	< 0.000036
	Lithium	0.011 J	0.012 J	0.0063 J	0.0018 J	0.0032 J	0.0031 J	< 0.00081	< 0.00081
	Mercury	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078
	Molybdenum	< 0.00069	< 0.00069	0.0011 J	< 0.00069	< 0.00069	< 0.00069	< 0.00069	< 0.00069
	Combined Radium - 226/228	0.626 U	1.00	2.89	1.67	0.613 U	0.579 U	0.529 U	0.590 U
	Selenium	< 0.0016	0.0019 J	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016
Thallium	< 0.00014	--	< 0.00014	--	< 0.00014	--	< 0.00014	--	

Notes:

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

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

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

-- Not analyzed for this constituent.

< 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 qualified by the laboratory as estimated.

Table 6 - Groundwater Analytical Data - February and March 2021
2021 Semiannual Groundwater Monitoring and Corrective Action Report
Plant Yates - A-3, A, B, B' and R6 CCR Landfill



	Analyte	YGWA-18I	YGWA-18I	YGWA-18S	YGWA-18S	YGWA-20S	YGWA-20S	YGWA-21I	YGWA-21I	
		2/9/2021	3/3/2021	2/9/2021	3/3/2021	2/9/2021	3/3/2021	2/9/2021	3/4/2021	
Appendix III	pH	6.12	5.89	5.43	5.31	5.86	5.89	6.95	6.80	
	Boron	--	< 0.0052	--	0.0094 J	--	< 0.0052	--	0.0079 J	
	Calcium	--	5.2	--	0.96 J	--	2.4	--	8.7	
	Chloride	--	7.0	--	7.2	--	2.7	--	1.8	
	Fluoride	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.092 J	0.091 J
	Sulfate	--	< 0.50	--	1.0	--	< 0.50	--	4.5	
	Total Dissolved Solids	--	95.0	--	37.0	--	53.0	--	110	
Appendix IV	Antimony	< 0.00028	< 0.00028	< 0.00028	0.00067 J	0.00032 B	< 0.00028	0.0013 B	0.0014 J	
	Arsenic	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	0.0010 J	0.00078 J	
	Barium	0.023	0.023	0.017	0.017	0.015	0.015	0.011	0.011	
	Beryllium	< 0.000046	< 0.000046	0.000098 J	0.00011 J	0.000068 J	0.000068 J	< 0.000046	< 0.000046	
	Cadmium	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	0.00041 J	< 0.00012	
	Chromium	0.00083 J	0.00087 J	0.0013 J	0.0010 J	0.00056 J	< 0.00055	< 0.00055	< 0.00055	
	Cobalt	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	0.0090	0.0065	
	Lead	0.000050 J	< 0.000036	0.000094 J	0.000076 J	0.000063 J	0.000045 J	< 0.000036	< 0.000036	
	Lithium	0.0031 J	0.0034 J	0.0019 J	0.0021 J	< 0.00081	< 0.00081	0.0060 J	0.0062 J	
	Mercury	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078	
	Molybdenum	< 0.00069	< 0.00069	< 0.00069	< 0.00069	< 0.00069	< 0.00069	< 0.00069	< 0.00069	
	Combined Radium - 226/228	0.314 U	0.565 U	0.259 U	0.352 U	0.284 U	0.133 U	1.24	1.20	
	Selenium	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016	
Thallium	< 0.00014	--	< 0.00014	--	< 0.00014	--	< 0.00014	--		

Notes:

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

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

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

-- Not analyzed for this constituent.

< 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 qualified by the laboratory as estimated.

Table 6 - Groundwater Analytical Data - February and March 2021
2021 Semiannual Groundwater Monitoring and Corrective Action Report
Plant Yates - A-3, A, B, B' and R6 CCR Landfill



	Analyte	YGWA-39	YGWA-39	YGWA-40	YGWA-40	YGWC-23S	YGWC-23S	YGWC-24SA	YGWC-24SA
		2/10/2021	3/4/2021	2/10/2021	3/4/2021	2/9/2021	3/4/2021	2/9/2021	3/3/2021
Appendix III	pH	5.80	5.54	5.19	5.23	5.61	5.44	5.69	5.70
	Boron	--	0.033 J	--	0.078	--	1.2	--	< 0.0052
	Calcium	--	8.2	--	4.6	--	10.2	--	2.4
	Chloride	--	4.9	--	4.9	--	1.8	--	8.6
	Fluoride	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050 M1	< 0.050	< 0.050
	Sulfate	--	12.0	--	21.5	--	61.7 M1	--	< 0.50
	Total Dissolved Solids	--	168	--	57.0	--	96.0	--	70.0
Appendix IV	Antimony	< 0.00028	< 0.00028	< 0.00028	< 0.00028	0.00052 J	< 0.00028	< 0.00028	< 0.00028
	Arsenic	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078
	Barium	0.027	0.028	0.032	0.032	0.042	0.043	0.031	0.025
	Beryllium	0.000051 J	< 0.000046	0.00021 J	0.00021 J	0.00015 J	0.00013 J	0.00013 J	0.000099 J
	Cadmium	0.00019 J	0.00030 J	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012
	Chromium	< 0.00055	< 0.00055	< 0.00055	< 0.00055	0.00086 J	0.00078 J	0.0011 J	< 0.00055
	Cobalt	0.00098 J	0.00071 J	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038
	Lead	< 0.000036	< 0.000036	< 0.000036	< 0.000036	< 0.000036	0.00021 J	0.00036 J	< 0.000036
	Lithium	0.0071 J	0.0084 J	< 0.00081	< 0.00081	0.0026 J	0.0026 J	< 0.00081	< 0.00081
	Mercury	< 0.000078	< 0.000078	< 0.000078	< 0.000078	0.00015 J	< 0.000078	< 0.000078	< 0.000078
	Molybdenum	0.0013 J	0.0014 J	< 0.00069	< 0.00069	< 0.00069	< 0.00069	< 0.00069	< 0.00069
	Combined Radium - 226/228	0.518 U	0.636 U	0.783 U	0.818 U	0.464 U	0.771 U	0.678 U	0.415 U
	Selenium	< 0.0016	< 0.0016	< 0.0016	< 0.0016	0.032	0.037	< 0.0016	< 0.0016
	Thallium	< 0.00014	--	< 0.00014	--	< 0.00014	--	< 0.00014	--

Notes:

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

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

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

-- Not analyzed for this constituent.

< 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 qualified by the laboratory as estimated.

Table 6 - Groundwater Analytical Data - February and March 2021
2021 Semiannual Groundwater Monitoring and Corrective Action Report
Plant Yates - A-3, A, B, B' and R6 CCR Landfill



	Analyte	YGWC-36A	YGWC-36A	YGWC-38	YGWC-38	YGWC-41	YGWC-41	YGWC-42	YGWC-42	
		2/10/2021	3/4/2021	2/9/2021	3/4/2021	2/10/2021	3/4/2021	2/10/2021	3/4/2021	
Appendix III	pH	6.31	5.67	5.04	5.01	4.98	4.69	5.65	5.59	
	Boron	--	0.0088 J	--	6.4	--	4.0	--	14.8	
	Calcium	--	5.6	--	87.0	--	16.4	--	90.7	
	Chloride	--	6.6	--	3.9	--	3.4	--	2.7	
	Fluoride	< 0.050	< 0.050	< 0.050 M1	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
	Sulfate	--	6.3	--	356	--	117	--	537	
	Total Dissolved Solids	--	69.0	--	600	--	224	--	501	
Appendix IV	Antimony	0.028	0.0015 J	0.00031 J	< 0.00028	0.0014 J	< 0.00028	0.00053 J	< 0.00028	
	Arsenic	0.00088 J	< 0.00078	0.00098 J	< 0.00078	< 0.00078	< 0.00078	0.0016 J	< 0.00078	
	Barium	0.035	0.028	0.016	0.016	0.017	0.017	0.031	0.030	
	Beryllium	0.000099 J	0.00016 J	0.0029 J	0.0029	0.0015 J	0.0015	0.000057 J	< 0.000046	
	Cadmium	< 0.00012	< 0.00012	0.0014 J	0.0013	< 0.00012	< 0.00012	< 0.00012	< 0.00012	
	Chromium	0.00094 J	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055	
	Cobalt	0.00038 J	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	0.0019 J	0.0018 J	
	Lead	0.00051 J	0.00025 J	< 0.000036	< 0.000036	0.00020 J	< 0.000036	0.000054 J	< 0.000036	
	Lithium	0.0011 J	< 0.00081	0.0067 J	0.0067 J	0.0021 J	0.0021 J	0.058	0.059	
	Mercury	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078	
	Molybdenum	< 0.00069	< 0.00069	< 0.00069	< 0.00069	< 0.00069	< 0.00069	0.00094 J	0.00085 J	
	Combined Radium - 226/228	0.466 U	0.0671 U	0.626 U	0.816 U	0.548 U	1.23	0.612 U	1.02	
	Selenium	< 0.0016	< 0.0016	0.073	0.076	0.033	0.037	0.043	0.048	
Thallium	< 0.00014	--	< 0.00014	--	< 0.00014	--	< 0.00014	--		

Notes:

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

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

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

-- Not analyzed for this constituent.

< 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 qualified by the laboratory as estimated.

Table 6 - Groundwater Analytical Data - February and March 2021
2021 Semiannual Groundwater Monitoring and Corrective Action Report
Plant Yates - A-3, A, B, B' and R6 CCR Landfill



	Analyte	YGWC-43	YGWC-43	YGWC-49	YGWC-49	PZ-35	PZ-35	PZ-37	PZ-37
		2/9/2021	3/4/2021	2/9/2021	3/4/2021	2/10/2021	3/4/2021	2/9/2021	3/4/2021
Appendix III	pH	5.86	5.88	5.79	5.88	5.58	5.64	5.42	5.51
	Boron	--	3.6	--	< 0.0052	--	0.012 J	--	12.4
	Calcium	--	32.2	--	13.0	--	4.4	--	118
	Chloride	--	2.1	--	4.1	--	6.7	--	3.9
	Fluoride	0.058 J	0.063 J	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
	Sulfate	--	328	--	75.1	--	8.8	--	485
	Total Dissolved Solids	--	592	--	145	--	59.0	--	856
Appendix IV	Antimony	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.00028	0.00039 J	0.00035 J	< 0.00028
	Arsenic	< 0.00078	< 0.00078	< 0.00078	< 0.00078	0.00096 J	< 0.00078	0.0015 J	< 0.00078
	Barium	0.041	0.039	0.071	0.069	0.032	0.033	0.036	0.036
	Beryllium	0.00053 J	0.00056	0.00013 J	0.00010 J	0.00025 J	0.00025 J	0.00029 J	0.00017 J
	Cadmium	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	0.00042 J	0.00028 J
	Chromium	< 0.00055	< 0.00055	0.0020 J	0.0017 J	0.00060 J	0.00070 J	< 0.00055	< 0.00055
	Cobalt	0.0017 J	0.0015 J	< 0.00038	< 0.00038	< 0.00038	< 0.00038	0.0023 J	0.0030 J
	Lead	< 0.000036	< 0.000036	< 0.000036	< 0.000036	0.000087 J	0.00015 J	0.000088 J	< 0.000036
	Lithium	0.024 J	0.025 J	0.0038 J	0.0035 J	0.0012 J	0.0015 J	0.024 J	0.028 J
	Mercury	< 0.000078	< 0.000078	0.00014 J	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078
	Molybdenum	0.0012 J	0.0011 J	< 0.00069	< 0.00069	< 0.00069	< 0.00069	0.0016 J	0.0024 J
	Combined Radium - 226/228	6.38	6.02	0.137 U	0.579 U	< 0.546 U	< 0.397 U	1.52	1.49
	Selenium	< 0.0016	< 0.0016	0.0079 J	0.0058	< 0.0016	< 0.0016	0.28	0.27
Thallium	< 0.00014	--	< 0.00014	--	< 0.00014	--	< 0.00014	--	

Notes:

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

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

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

-- Not analyzed for this constituent.

< 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 qualified by the laboratory as estimated.

Table 6 - Groundwater Analytical Data - February and March 2021
2021 Semiannual Groundwater Monitoring and Corrective Action Report
Plant Yates - A-3, A, B, B' and R6 CCR Landfill



	Analyte	PZ-37D	YAMW-1	YAMW-1	YAMW-2	YAMW-2	YAMW-4	YAMW-4	YAMW-5
		5/13/2021	2/9/2021	3/3/2021	2/9/2021	3/3/2021	2/9/2021	3/3/2021	2/9/2021
Appendix III	pH	7.79	6.42	6.51	5.81	5.67	6.89	6.81	5.37
	Boron	1.3	--	0.039 J	--	0.032 J	--	0.81	--
	Calcium	68.3	--	6.9	--	1.5	--	20.6	--
	Chloride	4.0	--	6.1	--	2.5	--	22.9	--
	Fluoride	0.12	< 0.050	< 0.050	< 0.050	< 0.050	0.14	0.14	< 0.050
	Sulfate	178	--	16.9	--	7.9	--	91.7	--
	Total Dissolved Solids	381	--	121	--	40.0	--	245	--
Appendix IV	Antimony	0.00052 J	0.00037 J	0.025	< 0.00028	< 0.00028	0.0011 J	0.00062 J	< 0.00028
	Arsenic	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	0.0010 J	0.00079 J	0.00095 J
	Barium	0.015	0.039	0.035	0.0085 J	0.0082	0.020	0.021	0.042
	Beryllium	< 0.000046	< 0.000046	< 0.000046	0.000051 J	< 0.000046	< 0.000046	< 0.000046	0.00015 J
	Cadmium	< 0.00012	0.00013 J	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	0.00025 J
	Chromium	< 0.00055	0.0010 J	0.00076 J	0.0011 J	0.0012 J	0.00057 J	< 0.00055	< 0.00055
	Cobalt	< 0.00038	0.030	0.018	0.0010 J	0.00082 J	0.00063 J	0.0010 J	< 0.00038
	Lead	0.000049 J	0.00019 J	< 0.000036	0.00011 J	0.000080 J	0.00054 J	0.000096 J	0.000073 J
	Lithium	0.011 J	0.021 J	0.022 J	< 0.00081	< 0.00081	0.018 J	0.020 J	0.016 J
	Mercury	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078
	Molybdenum	0.0042 J	0.0038 J	0.0037 J	< 0.00069	< 0.00069	0.0068 J	0.0049 J	< 0.00069
	Combined Radium - 226/228	5.36	< 0.866 U	< 0.377 U	< 0.492 U	< 0.563 U	< 0.659 U	1.07	< 1.07 U
	Selenium	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016	0.060
Thallium	< 0.00014	< 0.00014	--	< 0.00014	--	< 0.00014	--	< 0.00014	

Notes:

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

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

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

-- Not analyzed for this constituent.

< 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 qualified by the laboratory as estimated.

**Table 6 - Groundwater Analytical Data - February and March 2021
2021 Semiannual Groundwater Monitoring and Corrective Action Report
Plant Yates - A-3, A, B, B' and R6 CCR Landfill**

	Analyte	YAMW-5
		3/4/2021
Appendix III	pH	5.32
	Boron	6.1
	Calcium	53.8
	Chloride	3.7
	Fluoride	< 0.050
	Sulfate	340
	Total Dissolved Solids	604
Appendix IV	Antimony	< 0.00028
	Arsenic	< 0.00078
	Barium	0.039
	Beryllium	0.00013 J
	Cadmium	0.00018 J
	Chromium	< 0.00055
	Cobalt	< 0.00038
	Lead	0.000041 J
	Lithium	0.016 J
	Mercury	< 0.000078
	Molybdenum	< 0.00069
	Combined Radium - 226/228	1.46
	Selenium	0.061
Thallium	--	

Notes:

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

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

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

-- Not analyzed for this constituent.

< 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 qualified by the laboratory as estimated.

**Table 7 - Background Levels and Groundwater Protection Standards
2021 Semiannual Groundwater Monitoring and Corrective Action Report
Plant Yates - AP-3, A, B, B' and R6 CCR Landfill**



Constituent	Units	Background	Federal GWPS	State GWPS
March 2021 (AP-3, A, B, B', R6 Landfill)				
Antimony	mg/L	0.0047	0.006	0.006
Arsenic	mg/L	0.005	0.010	0.010
Barium	mg/L	0.071	2	2
Beryllium	mg/L	0.0005	0.004	0.004
Cadmium	mg/L	0.0005	0.005	0.005
Chromium	mg/L	0.0093	0.100	0.100
Cobalt	mg/L	0.035	0.035 ³	0.035 ³
Fluoride	mg/L	0.680	4	4
Lead	mg/L	0.0013	0.015	0.0013
Lithium	mg/L	0.030	0.040	0.030
Mercury	mg/L	0.0002	0.002	0.002
Molybdenum	mg/L	0.014	0.100	0.014
Selenium	mg/L	0.005	0.050	0.050
Thallium	mg/L	0.001	0.002	0.002
Combined Radium - 226/228	pCi/L	6.92	6.92 ³	6.92 ³

Notes:

1. Site background: Tolerance limits calculated from pooled upgradient well data.
2. Federal GWPS = Groundwater Protection Standard per 40 CFR §257.95(h).
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.

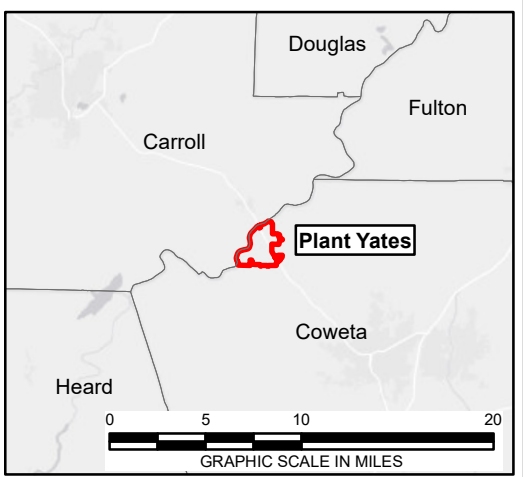
Acronyms and Abbreviations:

mg/L = milligrams per liter
pCi/L = picocuries per liter

FIGURES

2021 Semiannual Groundwater and Corrective Action Report
Plant Yates AP-3, A, B, B' and R6 CCR Landfill
Newnan, GA

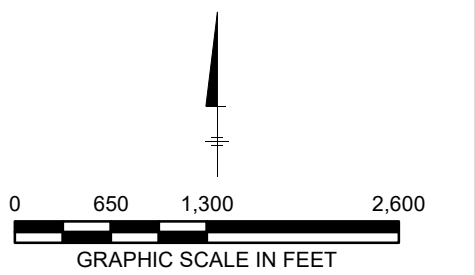





LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- PERMITTED UNIT BOUNDARY

NOTE:
 AERIAL IMAGE SOURCES: NOVEMBER 11, 2020
 IMAGERY FLOWN AND PROCESSED BY SAM LLC;
 NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP)
 2019 IMAGERY.

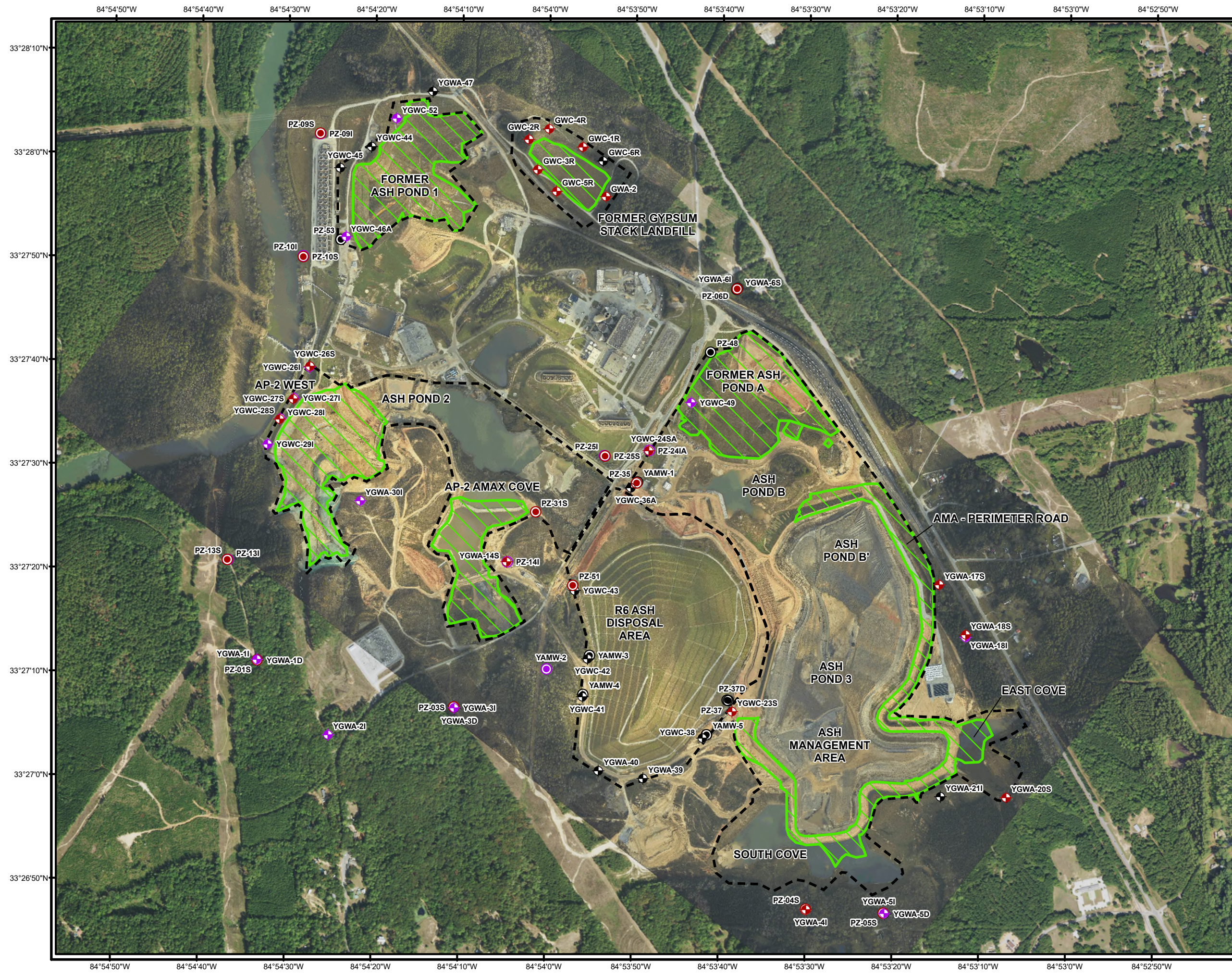


COORDINATE SYSTEM: NAD 1983 STATEPLANE
 GEORGIA WEST FIPS 1002 FEET

 **Georgia Power**
 PLANT YATES AP-3, A, B, B', AND R6 CCR LANDFILL
 NEWNAN, GA
 2021 SEMIANNUAL GROUNDWATER MONITORING
 AND CORRECTIVE ACTION REPORT

SITE LOCATION MAP

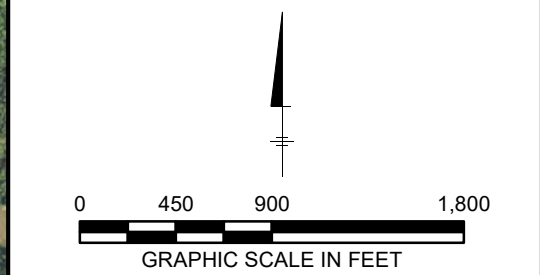
 **ARCADIS** FIGURE
1



LEGEND

- SAPROLITE NETWORK MONITORING WELL LOCATION
- TRANSITION NETWORK MONITORING WELL LOCATION
- BEDROCK NETWORK MONITORING WELL LOCATION
- SAPROLITE NON-NETWORK WELL/PIEZOMETER
- TRANSITION NON-NETWORK WELL/PIEZOMETER
- BEDROCK NON-NETWORK WELL/PIEZOMETER
- PERMITTED UNIT BOUNDARY
- AREA WHERE ASH HAS BEEN CERTIFIED REMOVED AS OF 8/31/2021

NOTE:
 AERIAL IMAGE SOURCES: NOVEMBER 11, 2020
 IMAGERY FLOWN AND PROCESSED BY SAM LLC;
 NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP)
 2019 IMAGERY.



COORDINATE SYSTEM: NAD 1983 STATEPLANE
 GEORGIA WEST FIPS 1002 FEET

Georgia Power
 PLANT YATES AP-3, A, B, B', AND R6 CCR LANDFILL
 NEWNAN, GA
 2021 SEMIANNUAL GROUNDWATER MONITORING
 AND CORRECTIVE ACTION REPORT

PLANT YATES CCR REMOVAL AREAS

FIGURE
2

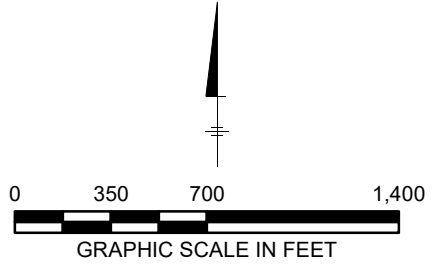


LEGEND

- SAPROLITE NETWORK MONITORING WELL LOCATION
- TRANSITION NETWORK MONITORING WELL LOCATION
- BEDROCK NETWORK MONITORING WELL LOCATION
- SAPROLITE NON-NETWORK WELL/PIEZOMETER
- TRANSITION NON-NETWORK WELL/PIEZOMETER
- BEDROCK NON-NETWORK WELL/PIEZOMETER
- PERMITTED UNIT BOUNDARY

NOTE:

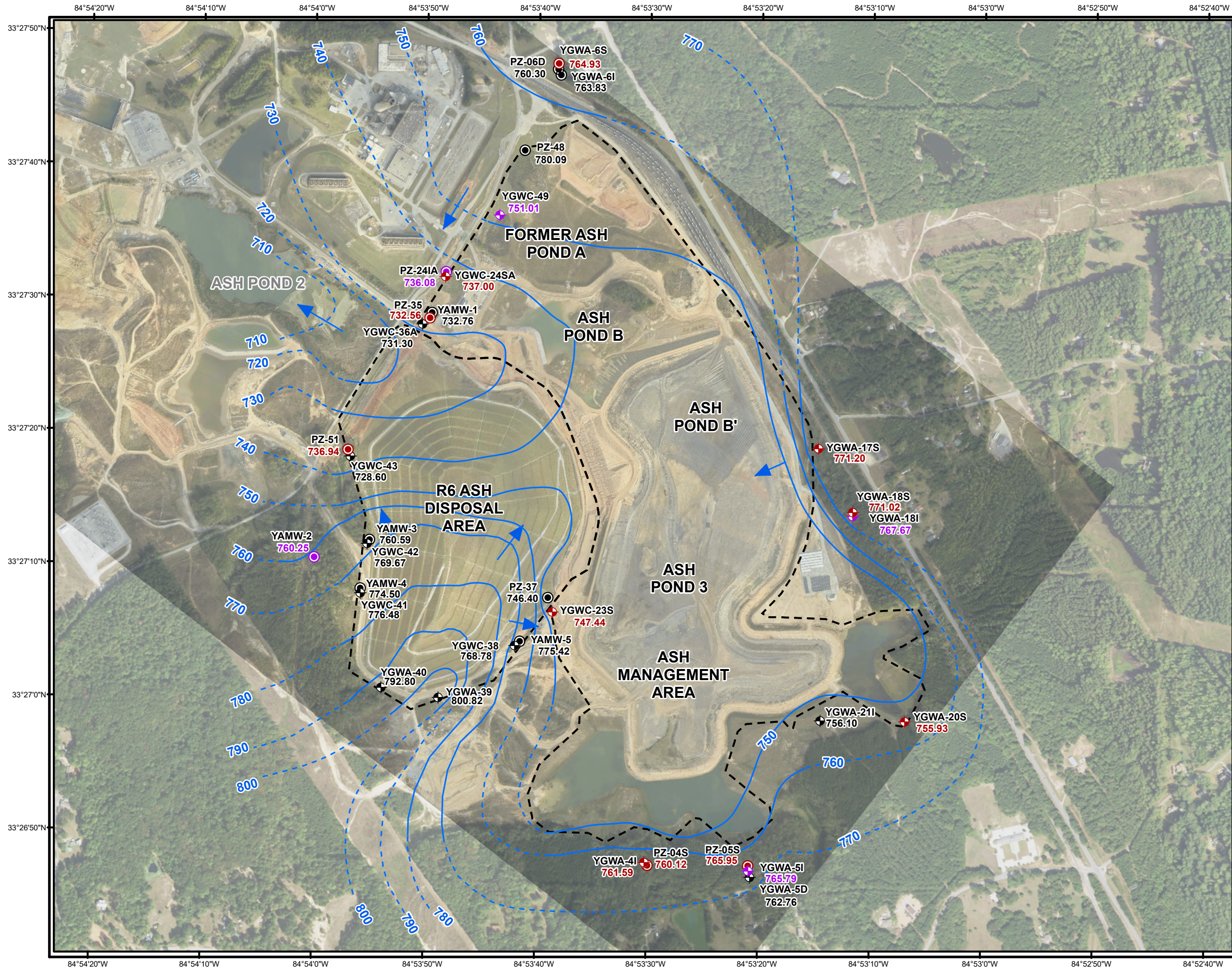
1. PZ-37D WAS INSTALLED AS A VERTICAL DELINEATION WELL FOR PZ-37 IN APRIL 2021.
2. AERIAL IMAGE SOURCES: NOVEMBER 11, 2020 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2019 IMAGERY.



COORDINATE SYSTEM: NAD 1983 STATEPLANE
GEORGIA WEST FIPS 1002 FEET

Georgia Power
PLANT YATES AP-3, A, B, B', AND R6 CCR LANDFILL
NEWNAN, GA
**2021 SEMIANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT**

WELL LOCATION MAP



LEGEND

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

736.94 GROUNDWATER ELEVATION (FEET)

- ### NOTES:
1. SHALLOW GROUNDWATER ELEVATIONS ARE DERIVED FROM SOIL COMPRISED OF SAPROLITE, RANGING FROM 15 - 60 FEET BELOW GROUND SURFACE.
 2. BEDROCK WELLS YGWA-40, YGWA-39, YGWC-38, YGWC-41, YGWC-42 USED FOR CONTOURING. ALL OTHER BEDROCK WELLS NOT USED TO CREATE CONTOURS.
 3. SAPROLITE WELL GROUNDWATER ELEVATIONS WERE USED FOR CONTOURING FOR SAPROLITE/TRANSITION ZONE/BEDROCK WELL CLUSTER LOCATIONS.
 4. AERIAL IMAGE SOURCES: NOVEMBER 11, 2020 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2019 IMAGERY.
 5. ELEVATION IS PRESENTED IN U.S. SURVEY FEET (NAVD 1988).

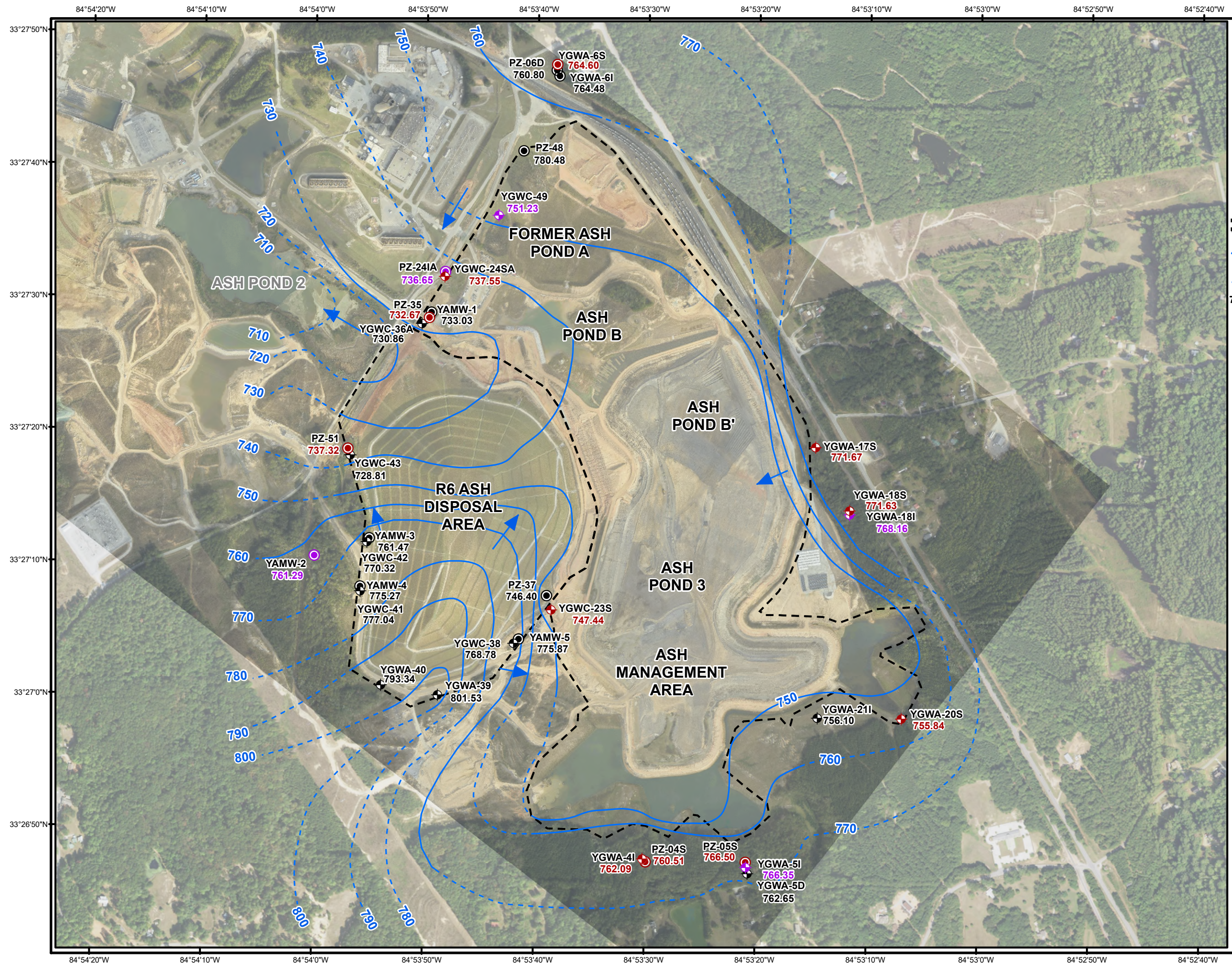
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE
GEORGIA WEST FIPS 1002 FEET

Georgia Power
PLANT YATES AP-3, A, B, B', AND R6 CCR LANDFILL
NEWNAN, GA
2021 SEMIANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT

GROUNDWATER ELEVATION MAP
FEBRUARY 2021

FIGURE
4

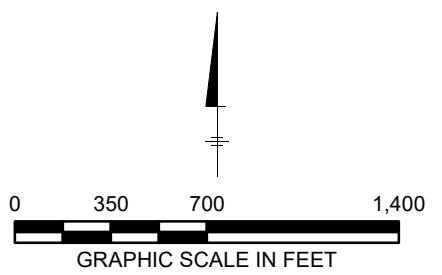


LEGEND

- SAPROLITE NETWORK MONITORING WELL LOCATION
- TRANSITION NETWORK MONITORING WELL LOCATION
- BEDROCK NETWORK MONITORING WELL LOCATION
- SAPROLITE NON-NETWORK WELL/PIEZOMETER
- TRANSITION NON-NETWORK WELL/PIEZOMETER
- BEDROCK NON-NETWORK WELL/PIEZOMETER
- PERMITTED UNIT BOUNDARY
- APPROXIMATE POTENTIOMETRIC CONTOUR (FEET) DASHED WHERE INFERRERD
- GROUNDWATER FLOW DIRECTION

773.31 GROUNDWATER ELEVATION (FEET)

- NOTES:**
1. SHALLOW GROUNDWATER ELEVATIONS ARE DERIVED FROM SOIL COMPRISED OF SAPROLITE, RANGING FROM 15 - 60 FEET BELOW GROUND SURFACE.
 2. BEDROCK WELLS YGWA-40, YGWA-39, YGWC-38, YGWA-41, YGWC-42 USED FOR CONTOURING. ALL OTHER BEDROCK WELLS NOT USED TO CREATE CONTOURS.
 3. SAPROLITE WELL GROUNDWATER ELEVATIONS WERE USED FOR CONTOURING FOR SAPROLITE/TRANSITION ZONE/BEDROCK WELL CLUSTER LOCATIONS.
 4. AERIAL IMAGE SOURCES: NOVEMBER 11, 2020 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2019 IMAGERY.
 5. ELEVATION IS PRESENTED IN U.S. SURVEY FEET (NAVD 1988).



COORDINATE SYSTEM: NAD 1983 STATEPLANE
GEORGIA WEST FIPS 1002 FEET


Georgia Power
PLANT YATES AP-3, A, B, B', AND R6 CCR LANDFILL
NEWNAN, GA
2021 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

**GROUNDWATER ELEVATION MAP
MARCH 2021**

APPENDIX A

Semiannual Remedy Selection and Design Progress Report

2021 Semiannual Groundwater and Corrective Action Report
Plant Yates AP-3, A, B, B' and R6 CCR Landfill
Newnan, GA





Semiannual Remedy Selection and Design Progress Report

**Plant Yates – AP-3, A, B, B'/R6 CCR Landfill
Newnan, Georgia**

August 31, 2021

Semiannual Remedy Selection and Design Progress Report

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

August 31, 2021

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



Jennifer Beck
Senior Scientist



Margaret Gentile, Ph.D.
Technical Expert



Geoffrey Gay
Georgia Registration No. 27801
Technical Expert (Eng)
Project Manager

Contents

Acronyms and Abbreviations.....	iii
Professional Certification	iv
1 Introduction.....	1
1.1 Site Description	1
1.2 Summary of SSLs for Corrective Measures.....	2
2 Screening of Corrective Measures	3
3 Summary of Work Completed and Data Analysis	4
3.1 Closure Activities	4
3.2 Nature and Extent Delineation	4
3.3 Trend Analysis	5
4 Evaluation of Corrective Measures.....	6
5 Planned Activities and Schedule	7
6 References	7

Tables

Table 1 2021 Delineation Well Data

Table 2 Remedy Evaluation Summary

Figures

Figure 1 Site Location Map

Figure 2 Well Location Map

Figure 3 Selenium Iso-Concentration Map, March 2021

Figure 4 Cross-Section Location Map

Figure 5 Cross-Sections A-A' and B-B'

Figure 6 Cross-Sections C-C' and D-D'

Figure 7 YGWC-38 Concentration Trends

Figure 8 PZ-37 Concentration Trends

Figure 9 YGWC-41 Concentration Trends

Semiannual Remedy Selection and Design Progress Report
Ash Ponds 3, A, B, B' and R6 Landfill

Attachment

Attachment 1 Analytical Lab Reports

Acronyms and Abbreviations

ACC	Atlantic Coast Consulting, Inc.
ACM	Assessment of Corrective Measures
AMA	Ash Management Area
amsl	above mean sea level
AP	Ash Pond
AP-3	Ash Pond 3
AP-A	Ash Pond A
AP-B	Ash Pond B
AP-B'	Ash Pond B'
ash ponds	Ash Ponds 3, A, B, B'
bgs	below ground surface
CCR	Coal Combustion Residuals
CFR	Code of Federal Regulations
CSM	conceptual site model
ft	feet
GAEPD	Georgia Environmental Protection Division
Georgia Power	Georgia Power Company
GWPS	Groundwater Protection Standard
ISS	In Situ Stabilization/Solidification
mg/L	milligram per liter
MNA	monitored natural attenuation
MODFLOW-USGT	Modular Three-Dimensional Finite-Difference Unstructured Grid Transport
NADV88	North American Vertical Datum 1988
SSL	statistically significant level
TDS	total dissolved solids
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey

Professional Certification

This Semiannual Remedy Selection and Design Progress Report, Georgia Power Company - Plant Yates, Ash Ponds 3, A, B, B' and the R6 Landfill, has been prepared in accordance with the United States Environmental Protection Agency coal combustion residual rule, specifically 40 Code of Federal (CFR) 257.97(a) and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10(6)(a). This report describes the progress made during the first semiannual period of 2021 in selecting and designing a remedy previously documented in the Assessment of Corrective Measures Report – Plant Yates Ash Ponds 3, A, B, B' (ACC 2019).



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

8.31.21

Date

1 Introduction

In accordance with the United States Environmental Protection Agency (USEPA) coal combustion residual (CCR) Rule (40 Code of Federal Regulations [CFR] 257 Subpart D; published in 80 FR 21302-21501, April 17, 2015; CCR Rule or The Rule), and on behalf of the Georgia Power Company (Georgia Power), this Semiannual Remedy Selection and Design Progress Report (Semiannual Progress Report) has been prepared for Plant Yates; Ash Ponds 3, A, B, and B' (ash ponds); and the R6 CCR Landfill (collectively, the Site) pursuant to 40 CFR § 257.97(a) and Georgia Environmental Protection Division (GAEPD) Rule 391-3-4.10(6)(a). To support the evaluation of potential remedies, this Semiannual Progress Report documents activities completed at the Site since the January 2021 submittal of the Semiannual Remedy Selection and Design Progress Report (Arcadis 2021a).

1.1 Site Description

The general site description provided in this section is modified from the 2021 Semiannual Groundwater Monitoring and Corrective Action Report (Arcadis 2021b). The Site is located at 708 Dyer Road on the east bank of the Chattahoochee River in Coweta County, Georgia, near the Coweta and Carroll County line, approximately 8 miles northwest of the city of Newnan and 13 miles southeast of the city of Carrollton. A general Site layout is shown in **Figure 1**. Plant Yates was once a coal-fired power generating facility but was converted to natural gas combustion turbines in 2014. Plant Yates was built after World War II and originally had seven coal-fired steam generating units (Units 1 – 7). Units 1 through 5 were retired in 2015 following approval by the Georgia Public Service Commission through the company's 2013 Integrated Resource Plan. The two largest units (Units 6 and 7) were converted from coal to natural gas and remain in service. Plant Yates is comprised of multiple CCR units which are in the process of closing in accordance with federal and state regulations. Ash Ponds 3, A, B, and B' (ash ponds); and the R6 CCR Landfill are the subject of this Remedy Selection and Design Progress Report.

Plant Yates is located within 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. A thin layer of soil from 1 to 2 feet (ft) thick overlies a thick layer of saprolite. The saprolite, which extends to typical depths of 20 to 40 ft below ground surface (bgs), was formed in-place by the physical and chemical weathering of the underlying metamorphic rocks. A zone of variable thickness (approximately 5 to 20 ft) of transitionally weathered rock typically exists between the saprolite and competent bedrock. 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.

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. 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.

Pursuant to 40 CFR § 257.91, a multi-unit groundwater monitoring system was installed within the uppermost aquifer at the Site (**Figure 2**). 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.

1.2 Summary of SSLs for Corrective Measures

The current Assessment of Corrective Measures (ACM; Atlantic Coast Consulting [ACC] 2019) was placed in the Site's operating record and posted to the Site's CCR Rule Compliance website. To support the ACM and development of the remedy selection, this Semiannual Progress Report summarizes the constituents determined to be present at statistically significant levels (SSLs). SSLs were determined for the following locations and constituents (**Figure 2**) in this semiannual reporting period:

- YGWC-38 (beryllium and selenium) at the R6 CCR Landfill. Results from recent sampling and analysis have shown that beryllium concentrations have decreased and no longer exceed the GWPS at YGWC-38, while the statistical analysis of the historical dataset continues to identify an SSL.
- PZ-37 (selenium) at the R6 CCR Landfill.

An iso-concentration map for selenium is provided on **Figure 3**. Stratigraphic cross-sections with current water level data are depicted in **Figures 4** through **6**. Recent delineation well data are provided in **Table 1** and analytical lab reports are provided in **Attachment 1**. The beryllium SSL at well YGWC-38 is horizontally delineated by downgradient wells PZ-37 and YGWC-23S. Beryllium SSL at well YGWC-38 is vertically delineated by well YAMW-5. Selenium SSL at well YGWC-38 is horizontally delineated by downgradient wells YGWC-23S and YGWC-36A, PZ-35 and YAMW-1 to below the GWPS. Selenium SSLs at YGWC-38 was vertically delineated by YAMW-5; however, selenium concentrations in YAMW-5 increased and currently exceed the GWPS of 0.05 mg/L. Downgradient of YGWC-38 and YAMW-5, selenium concentrations are vertically delineated by the newly installed PZ-37D (see Section 4).

There are several historical SSLs that are no longer present at the Site:

- Monitoring well YGWC-41 historically exhibited an SSL for selenium. Concentrations of selenium have decreased to less than the GWPS and the statistical analysis of the historical data set no longer indicates an SSL. YGWC-41 will continue to be listed in the remedy selection and design progress reports and considered in the assessment of corrective measures until such time that the upper confidence interval (EPA Unified Guidance, 2009) of the confidence interval is shown to be below the GWPS for three years pursuant to 257.98(c)(2).
- Historically, YGWC-33S in the ash pond area yielded SSLs for beryllium and cobalt. This monitoring location was abandoned in June 2020 because it was not suitable for detecting groundwater flow away from the combined ash ponds and R6 CCR Landfill waste boundary. Prior to its abandonment, beryllium and cobalt were shown to be delineated by downgradient wells within the permitted unit boundary by YGWC-36A, YAMW-1 and PZ-35. The delineation wells continue to be monitored as part of the combined network at the ash ponds and R6 CCR Landfill. Cobalt will continue listed in the remedy selection and design progress reports and considered in the assessment of corrective measures through August 2023, which will constitute three years following the last SSL for cobalt in August 2020.

In addition to the assessment monitoring program at the Site, a human health and ecological risk evaluation was completed (and reported in Wood 2020) to evaluate constituents present at SSLs in groundwater (i.e., beryllium and selenium) at the ash ponds and the R6 CCR Landfill. The evaluation provides one of many lines of evidence

that will be evaluated and factored into the remedy selection process, which will be completed in accordance with § 257.97. Based on this risk evaluation, concentrations of beryllium and selenium detected in groundwater at the Site between August 2016 and March 2020 are not expected to pose a risk to human health or the environment (Wood 2020). Data collected since March 2020 are consistent with data used in the risk evaluation; therefore, the conclusions provided in the 2020 Risk Evaluation Report are supported by current conditions.

2 Screening of Corrective Measures

Pursuant to 40 CFR § 257.97, Georgia Power is evaluating the potential corrective measures presented in the ACM to identify an appropriate remedy or combination of remedies for the Site as soon as feasible.

The ACM presented the following corrective measures as potentially feasible for use at the Site:

1. Geochemical Manipulation (In-Situ Injection);
2. Hydraulic Containment (Pump and Treat);
3. In Situ Stabilization/Solidification (ISS);
4. Monitored Natural Attenuation (MNA);
5. Subsurface Vertical Barrier Walls;
6. Permeable Reactive Barrier;
7. Phytoremediation.

This evaluation was first completed and reported in the August Semiannual Progress Report (Arcadis 2020). Building on the initial evaluation of corrective measures presented in the ACM; incorporation of site-specific hydrogeological and geochemical information; and consideration of ease of implementation, performance, and reliability of each, potential corrective measures were screened to further refine the list to be retained for additional evaluation. The list of retained potential corrective measures is presented in this Semiannual Progress Report as **Table 2** and includes:

1. MNA;
2. Geochemical Manipulation (In-Situ Injection);
3. Hydraulic Containment (Pump and Treat);
4. Phytoremediation (not currently applicable but retained if needed for future compliance well SSLs downgradient of AP-A/B/B'/3 or R6 CCR Landfill).

Georgia Power proactively initiated adaptive site management as outlined in the ACM Report (ACC 2019) to support the groundwater remedy selection process and address potential changes in site conditions as appropriate during the ash pond closure. The adaptive site management approach will take existing site conditions, including natural attenuation mechanisms into account. Characterization activities to evaluate attenuation mechanisms at the Site may include collection of data necessary to progressively evaluate the existing and long-term effectiveness of these processes in the aquifer and reduce uncertainty for decision making at each screening step as listed in the USEPA guidelines for MNA (USEPA 2007, 2015). In 2007, the USEPA issued MNA technical guidance specific to inorganic contaminants (USEPA, 2007) that contained four “tiers.” The 2015 MNA guidance retains these four “tiers,” but describes them as “phases” as described below (USEPA,

2015). This 2015 MNA document for inorganic contaminants expands on and is designed to be a companion to the 1999 MNA guidance.

- Phase I: Demonstration that the groundwater plume is *not expanding*.
- Phase II: Determination that the *mechanism and rate* of the attenuation process are sufficient.
- Phase III: Determination that the *capacity* of the aquifer is sufficient to attenuate the mass of contaminant within the plume and the *stability* of the immobilized contaminant is sufficient to resist re-mobilization.
- Phase IV: Design of a *performance monitoring program* based on an understanding of the mechanism of the attenuation process, and establishment of contingency remedies tailored to site-specific characteristics.

Georgia power will address Phase IV as appropriate during the development of the future corrective action monitoring plan, after the final remedy selection report.

3 Summary of Work Completed and Data Analysis

3.1 Closure Activities

Source control is being implemented as part of the closure process and is not specifically intended as a corrective measure. However, there is a strong potential for source control to limit future impact and improve groundwater quality. The following source control measures are underway or complete for the ash ponds and the R6 CCR Landfill:

- R6 CCR landfill capping began in October 2015 and was completed during the fourth quarter of 2016. Final closure certification has not been submitted for the R6 CCR landfill due to final flume tie-in to the surface water drainage ditch currently being constructed along the northern edge of the R6 CCR landfill.
- Consolidation of ash from the ash ponds onto the Ash Management Area (AMA) began in 2014 and is on-going.

Closure activities at Plant Yates, including management and reduction of ponded water, excavation and consolidation of CCR, and capping, can reduce CCR impacts to groundwater. The removal of ponded water at AP-B and excavation and consolidation of the material at AP-A, AP-B, and other areas reduces potential contact of groundwater with the source of CCR constituents and likely results in improved groundwater quality in the area. Capping of the R6 CCR Landfill and future capping of the consolidated ash pond materials in the AMA also minimizes the infiltration of water through CCR materials.

3.2 Nature and Extent Delineation

In April 2021, a deep bedrock groundwater monitoring well (PZ-37D) was installed adjacent to PZ-37 to delineate the nature and extent of selenium in the vicinity of PZ-37, YGWC-38, and YAMW-5 (**Figure 5**). The complete Well Installation Report is provided in Appendix D to the 2021 Semiannual Groundwater Monitoring and Corrective Action Report (Arcadis 2021b).

PZ-37D (**Figure 5**) was installed at a total depth of 202.3 ft bgs at an elevation of 556.5 ft (North American Vertical Datum of 1988 [NAVD88]) using a track-mounted 150CC rotosonic drill equipped with 4-inch coring rods for continuous coring and 6-inch outer casing. Core samples were logged in the field for lithologic properties. Well construction and development information is provided in Appendix D to the 2021 Semiannual Groundwater Monitoring and Corrective Action Report (Arcadis 2021b). During advancement of the drill string, grab samples of groundwater were collected at three discrete intervals (90 to 100 ft bgs [668.8 to 658.8 ft North American Vertical Datum 1988, NAVD88], 130 to 150 ft bgs [628.8 to 608.8 ft NAVD88], and 195 to 200 ft bgs [563.8 to 558.8 ft NAVD88]). The samples were submitted for laboratory analysis for selenium and other constituents to provide a preliminary record of the vertical delineation of groundwater constituent concentrations. Prior to collection of the grab sample from 195-200 ft bgs (563.8 to 558.8 ft NAVD88), the sample interval was sealed from the upper intervals using an inflatable packer. Once installation and well development were complete, a groundwater sample was collected from the newly installed PZ-37D and analyzed for Appendix III and Appendix IV constituents.

Analytical laboratory results from the three discrete interval grab samples and a groundwater sample from the completed well are provided in Attachment 1. Concentrations of selenium in the grab samples ranged from 0.14 mg/L in the 90-100 ft bgs (668.8 to 658.8 ft NAVD88) interval to 0.18 mg/L in the 130-150 ft bgs (628.8 to 608.8 ft NAVD88) interval to below detection limits in the 195-200 ft bgs (563.8 to 558.8 ft NAVD88) interval. Selenium concentrations measured in the upper two intervals where grab samples were collected could be influenced under pumping conditions by structural influences in the bedrock such as fracture density, orientation, and angles, as well as potential casing leakage. In the completed well PZ-37D, selenium concentrations were below detection.

3.3 Trend Analysis

Historical groundwater analytical data are presented in Figures 7 – 9 to illustrate how groundwater conditions are changing in conjunction with closure activities. Groundwater monitoring has been performed for the ash ponds since 2016 and the R6 CCR landfill since 2017.

In the R6 CCR Landfill area, decreasing concentration trends are observed on the east side of the unit at YGWC-38 (**Figure 7**). At this location, concentrations of boron, sulfate, and total dissolved solids (TDS) have been decreasing through time, with concentrations of chloride and pH values remaining stable. For example, boron concentrations decreased from 22.7 milligrams per liter (mg/L) in June of 2018 to 6.4 mg/L in March 2021. Beryllium has decreased from a maximum of 0.0059 mg/L in June 2018 to 0.0029 mg/L in February and March 2021, less than the GWPS of 0.004 mg/L. Because there are no observed concentrations of beryllium exceeding the GWPS of 0.004 mg/L, a beryllium isoconcentration map was not developed. Selenium concentrations in YGWC-38 have also decreased from 0.265 mg/L in September 2017 to 0.073 and 0.076 mg/L in February 2021 and March 2021, respectively. The concentration data (**Figure 7**) indicate target Appendix III constituent concentrations that are indicators for CCR constituents in groundwater are decreasing near the well (YGWC-38) showing SSLs.

Similar decreasing trends are also noted spatially and vertically downgradient of well YGWC-38. Preliminary data collected from YAMW-5 suggest potential decreasing concentrations of boron, sulfate, and TDS in the deeper aquifer zone adjacent to YGWC-38. Statistical analysis of the current data set at YAMW-5 has not yielded an SSL. However, between September 2020 and March 2021, concentrations of selenium have increased from 0.026 mg/L to 0.061 mg/L, respectively, with the latter measurement exceeding the GWPS of 0.05 mg/L. As additional data become available, a continued evaluation of constituent concentration trends can be performed.

Similar to observed trends at YGWC-38, concentrations of boron, sulfate and TDS have been decreasing through time at PZ-37 (**Figure 8**). Selenium concentrations in PZ-37 varied between 0.168 mg/L in January 2018 and approximately 0.33 mg/L in September 2018 and 2020, before decreasing slightly to 0.27 mg/L in March 2021. To vertically delineate selenium in the vicinity of PZ-37, a deep bedrock well was installed in April 2021. The installation of the new well (PZ-37D) is described in **Section 3.2** above.

On the west side of the R6 CCR Landfill, boron, sulfate, and TDS concentrations have declined at YGWC-41 (**Figure 9**). For example, boron decreased from a maximum of 15.2 mg/L in February 2018 to 4.0 mg/L in March 2020. Selenium concentrations are lower at YWGC-41 on the west side of the unit than at YWGC-38 and PZ-37 on the east side of the unit. Selenium concentrations at YGWC-41 have decreased from a maximum of 0.071 mg/L in February 2018 to approximately 0.035 mg/L in February (0.033 mg/L) and March (0.037 mg/L) 2021. During the reporting period, concentrations of selenium were less than the GWPS of 0.05 mg/L and did not exhibit an SSL.

In general, groundwater monitoring data show declining trends in concentrations of CCR constituents, such as boron, sulfate, beryllium, and selenium, most likely due to pond closure activities progressing at Plant Yates since 2014.

4 Evaluation of Corrective Measures

Closure activities (completed and ongoing) for the ash ponds and the R6 CCR Landfill support source control measures that will reduce the potential migration of CCR constituents to groundwater. With few exceptions, constituent concentrations have decreased over time as the shallow aquifer responds to the closure activities completed. Georgia Power proactively initiated an adaptive site management approach, as outlined in the ACM Report (ACC 2019), to support the groundwater remedy selection process and address potential changes in site conditions as appropriate during the ash pond closure. The adaptive site management approach will take existing site conditions, including natural attenuation mechanisms, into account and may be adjusted over the life cycle of the Site as new information and technologies become available. At this time, the data collected support the following retained list of potential corrective measures, as summarized in **Table 2**:

Geochemical Manipulation (In-Situ Injection) In Situ Injection technology is the application of reagents in the subsurface to influence the solubility, mobility, and/or toxicity of inorganic constituents. The hydrogeology of the Site and available in situ options for immobilization of selenium and beryllium supports the implementation of in situ injections. Based on the evaluation to date, the in situ injection technology is retained.

Hydraulic Containment (Pump and Treat) Hydraulic control/containment (P&T) uses groundwater extraction to establish a hydraulic gradient to capture and control the migration of groundwater that is impacted by a constituent of concern. Groundwater extraction and treatment is feasible at the Site and hydraulic containment is retained for further consideration.

MNA MNA is defined as the reliance on natural attenuation processes (within the context of a carefully controlled and monitored site cleanup approach) to achieve site-specific remediation objectives within a timeframe that is reasonable compared to that offered by other more active methods (USEPA 2007). MNA is a remedial solution that takes advantage of natural attenuation processes to reduce constituents in soil and groundwater. Geochemical characterization, including selenium speciation, solids mineralogical characterization, a bench top sorption study conducted in 2020 (Arcadis 2021a), and trend analysis conducted through the First Half of 2021 continue to support the retention of this technology for consideration in remedy selection.

Phytoremediation Phytoremediation is the direct use of various living plants as a means of hydraulic control or containment, immobilization of constituents, and/or uptake/degradation of constituents found in shallow groundwater or, if engineered, using TreeWells® in intermediate depth groundwater. Phytoremediation would be difficult to implement at the depths of the current SSLs at the R6 Landfill. However, phytoremediation could be implementable downgradient of the R6 Landfill and is retained for further evaluation of beryllium and selenium if downgradient wells yield SSLs in the future.

5 Planned Activities and Schedule

In support of remedy selection from among the retained corrective measures, the following activities (organized by general site area) are recommended for the remainder of 2021:

- Continue routine groundwater sampling for Appendix III and Appendix IV constituent concentrations at delineation locations to analyze and evaluate trends for effectiveness of source control and plume stability to support the MNA evaluation. Multiple datasets will be needed to assess temporal variations in conditions to confirm current stable and decreasing trends.
- Continue evaluation groundwater and aquifer solids data using the phased framework for the evaluation of MNA as a viable remedy.
- Develop and calibrate a solute transport model for selenium and sulfate as a conservative tracer, using the United States Geological Survey (USGS) Modular Three-Dimensional Finite-Difference Unstructured Grid Transport (MODFLOW-USGT) simulation code. The solute transport model will be used to evaluate remedial options, using metrics such as time to reach GWPS.
- An additional exploratory deep bedrock well in the vicinity of PZ-37D is planned to gather supporting bedrock hydrostratigraphic information through borehole geophysics, packer testing and sampling of intervals with significant water producing fractures. Understanding the flow conditions in this area will support the development of conceptual designs for the evaluation of active remedy options, such as pump and treat, as well as the fate and transport for selenium for options such as MNA.

Georgia Power will include future semiannual ACM progress reports in routine groundwater monitoring reports to document groundwater conditions, results associated with additional data gathering, and the progress of selecting and designing the remedy in accordance with 40 CFR § 257.97(a). Record keeping, notifications, and publicly accessible internet site requirements for the semiannual ACM progress reports will be provided in accordance with 40 CFR § 257.105(h)(12), 257.106(h)(9), and 257.107(h)(9), respectively. Preparation of a remedy selection report is anticipated in 2022.

6 References

- ACC. 2019. Assessment of Corrective Measures Report, Georgia Power Company, Plant Yates, Ash Ponds 3, A, B, and B'. Prepared for the Georgia Environmental Protection Division. June 12.
- Arcadis. 2020. Semiannual Remedy Selection and Design Progress Update, Plant Yates, Ash Ponds 3, A, B, and B'/R6 CCR Landfill. August
- Arcadis. 2021a. Semiannual Remedy Selection and Design Progress Update, Plant Yates, Ash Ponds 3, A, B, and B'/R6 CCR Landfill. January.

Semiannual Remedy Selection and Design Progress Report
Ash Ponds 3, A, B, B' and R6 Landfill

- Arcadis. 2021b. 2021 Semiannual Groundwater Monitoring and Corrective Action Report, Plant Yates – AP-3, A, B, B', and R6 CCR Landfill. August.
- USEPA. 2007. Monitored Natural Attenuation of Inorganic Contaminants in Ground Water. Volume 1 – Technical Basis for Assessment. U.S. Environmental Protection Agency, Washington, DC, EPA/600/R-07/139. October.
- USEPA. 2009. Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities. Unified Guidance. Office of Resource Conservation and Recovery, Program Implementation and Information Division, United States Environmental Protection Agency. March.
- USEPA. 2015. Use of Monitored Natural Attenuation for Inorganic Contaminants in Groundwater at Superfund Sites. USEPA Office of Solid Waste and Emergency Response. Directive 9283.1-36. August.
- Wood. 2020. Risk Evaluation Report – Plant Yates R6 CCR Landfill and Ash Management Area, Coweta County, Georgia. January

Tables

Analyte	Units	PZ-35	PZ-37	PZ-37D	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YAMW-5	YGWC-38	YGWC-41	
		PZ-35 03042021	PZ-37 03042021	PZ-37D (051321)	YAMW-1 03032021	YAMW-2 03032021	YAMW-4 03032021	YAMW-5 (020921)	YAMW-5 03042021	YGWC-38 03042021	YGWC-41 03042021	
		3/4/2021	3/4/2021	5/13/2021	3/3/2021	3/3/2021	3/3/2021	2/9/2021	3/4/2021	3/4/2021	3/4/2021	
Appendix III	Boron	mg/l	0.012 J	12.4	1.3	0.039 J	0.032 J	0.81	NA	6.1	6.4	4.0
	Calcium	mg/l	4.4	118	68.3	6.9	1.5	20.6	NA	53.8	87.0	16.4
	Chloride	mg/l	6.7	3.9	4.0	6.1	2.5	22.9	NA	3.7	3.9	3.4
	Fluoride	mg/l	< 0.050	< 0.050	0.12	< 0.050	< 0.050	0.14	< 0.050	< 0.050	< 0.050	< 0.050
	Sulfate	mg/l	8.8	485	178	16.9	7.9	91.7	NA	340	356	117
	Total Dissolved Solids	mg/l	59.0	856	381	121	40.0	245	NA	604	600	224
Appendix IV	Antimony	mg/l	0.00039 J	< 0.00028	0.00052 J	0.025	< 0.00028	0.00062 J	< 0.00028	< 0.00028	< 0.00028	< 0.00028
	Arsenic	mg/l	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	0.00079 J	0.00095 J	< 0.00078	< 0.00078	< 0.00078
	Barium	mg/l	0.033	0.036	0.015	0.035	0.0082	0.021	0.042	0.039	0.016	0.017
	Beryllium	mg/l	0.00025 J	0.00017 J	< 0.000046	< 0.000046	< 0.000046	< 0.000046	0.00015 J	0.00013 J	0.0029	0.0015
	Cadmium	mg/l	< 0.00012	0.00028 J	< 0.00012	< 0.00012	< 0.00012	< 0.00012	0.00025 J	0.00018 J	0.0013	< 0.00012
	Chromium	mg/l	0.00070 J	< 0.00055	< 0.00055	0.00076 J	0.0012 J	< 0.00055	< 0.00055	< 0.00055	< 0.00055	< 0.00055
	Cobalt	mg/l	< 0.00038	0.0030 J	< 0.00038	0.018	0.00082 J	0.0010 J	< 0.00038	< 0.00038	< 0.00038	< 0.00038
	Lead	mg/l	0.00015 J	< 0.000036	0.000049 J	< 0.000036	0.000080 J	0.000096 J	0.000073 J	0.000041 J	< 0.000036	< 0.000036
	Lithium	mg/l	0.0015 J	0.028 J	0.011 J	0.022 J	< 0.00081	0.020 J	0.016 J	0.016 J	0.0067 J	0.0021 J
	Mercury	mg/l	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078
	Molybdenum	mg/l	< 0.00069	0.0024 J	0.0042 J	0.0037 J	< 0.00069	0.0049 J	< 0.00069	< 0.00069	< 0.00069	< 0.00069
	Combined Radium - 226/228	pCi/l	< 0.397 U	1.49	5.36	< 0.377 U	< 0.563 U	1.07	< 1.07 U	1.46	< 0.816 U	1.23
	Selenium	mg/l	< 0.0016	0.27	< 0.0016	< 0.0016	< 0.0016	< 0.0016	0.060	0.061	0.076	0.037
Thallium	mg/l	NA	NA	< 0.00014	NA	NA	NA	< 0.00014	NA	NA	NA	
Field	pH	S.U.	5.64	5.51	7.79	6.51	5.67	6.81	5.37	5.32	5.01	4.68

Notes:

- < indicates the analyte was not detected above the laboratory method detection limit (MDL).
- J values indicate the substance was detected at such low levels that the precision of the laboratory instrument could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated value.
- Detections are in **bold**

mg/l - milligrams per liter

pCi/l - picoCuries per liter

S.U. - Standard Units

NA - Not Analyzed

U - the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not

Table 2.
Remedy Evaluation Summary
Plant Yates AP-3, A, B, B', and R6 CCR Landfill
Georgia Power Company



Corrective Measure	Geochemical Manipulation (In Situ Injection)	Hydraulic Containment	In-Situ Stabilization/Solidification (ISS)	Monitored Natural Attenuation	Subsurface Vertical Barrier Walls	Permeable Reactive Barrier	Phytoremediation
<i>Retained/Screened Out</i>	<i>Retained</i>	<i>Retained</i>	<i>Screened Out</i>	<i>Retained</i>	<i>Screened Out</i>	<i>Screened Out</i>	<i>Retained if needed for future compliance well SSLs downgradient of AP-A/B/B'/3 or R6 CCR Landfill</i>
Description	Injection of a chemical or organic substrate to alter geochemical conditions to those more favorable for stabilization of beryllium and/or selenium.	Combines a groundwater extraction system with a surface treatment system to remove target analytes from the subsurface and/or to control/prevent constituent migration.	In-situ solidification is the process by which constituent mobility in a solid matrix is decreased through physical and/or chemical means. Grout or other chemical additives are mixed with aquifer materials to reduce permeability. ISS could be applied to the aquifer matrix in groundwater flow zones but is less applicable than other technologies evaluated.	A remedial solution that takes advantage of natural attenuation processes to attenuate constituents in soil and groundwater. This option can meet the GWPS given sufficient time and favorable conditions.	Used to physically control the migration of impacted groundwater flow through isolation or redirection, typically around or upgradient of a source area.	A permeable reactive barrier is a zone of reactive material that extends below the water table to intercept and treat groundwater.	Phytoremediation is the direct use of various living plants as a means of hydraulic control or containment, immobilization of constituents, and/or uptake/degradation of constituents in shallow groundwater or, if engineered, using TreeWells® for intermediate depth groundwater. This technology can meet the GWPS for low level metal concentrations present in shallow groundwater.
40 CFR 257.96(c)(1)							
Ease of Implementation	This process is not substantially limited by implementation. The hydrogeology of the site is amenable to reagent injection and distribution. Bench testing and pilot testing can be used to optimize implementation.	Relative ease in implementation compared to other technologies.	ISS technology would be difficult to impractical to implement at the scale of the AMA and R6 landfill. The implementation would also be complicated on the R6 landfill where the cap is in place.	This process is not limited by implementation.	Installing into competent bedrock may be challenging due to depth, the presence of fractures, and the groundwater flow directions at the site.	Installing into competent bedrock may be challenging due to depth and presence of fractures. Implementation is also challenging due to the groundwater flow directions at the site.	The depth of the treatment zone is limited to depth of root zone when relying on plants alone. When using TreeWell® system, deeper target depths (i.e., 30 feet or more) are achievable. Site ground water elevations are typically 10 feet to 30 feet below ground surface.
Performance	The geochemical manipulation processes identified have the potential to alter conditions and immobilize beryllium and selenium rapidly, but require ongoing monitoring to ensure that conditions remain favorable.	Hydraulic containment is an effective corrective measure for remediating dissolved constituents provided regular maintenance is performed throughout the operational life. Not typically immediately effective for trace level metals. Rebounding can occur as water levels return to normal once the pumping system is turned off post-remediation. Generally, requires disposal of treated water and sludges.	Performance would need to be assessed through bench or pilot testing. Likely would need to be used in conjunction with an additional technology for groundwater. Technology anticipated to be less effective for groundwater than other options evaluated.	This process provides ongoing effectiveness and is well documented as an effective measure for remediating groundwater	Performance may be limited due to site geology.	The effectiveness of this technology may be limited by underflow and reactive lifespan and is only effective for specific constituents. Marginally effective over long periods of time without replacement of PRB material.	May be directly effective by accumulation or uptake of some metals or hydraulic control; however, phytoaccumulation is directly related to the plant species. Constituents may need to be addressed by a method that does not involve direct uptake of impacted groundwater (i.e., traditional phytoremediation). An alternative method, such as a TreeWell® system, may need to be considered.
Potential Impacts	Low potential for impacts: health and safety concerns during injections associated with equipment, injection pressure management and reagent handling, minimal risk of cross media contamination, exposure potential limited to groundwater sampling.	Low potential for impacts: health and safety concerns during construction and O&M, injection pressure management and reagent handling, minimal risk of cross media contamination, exposure potential limited to groundwater sampling.	Low potential for impacts: No health and safety concerns during construction, minimal risk of cross media contamination, exposure potential limited to groundwater sampling.	Low potential for impacts: No health and safety concerns during construction, minimal risk of cross media contamination, exposure potential limited to groundwater sampling.	Low potential for impacts: health and safety during construction, minimal risk of cross media contamination, exposure post-construction limited to groundwater sampling.	Low potential for impacts: health and safety during construction, minimal risk of cross media contamination, exposure post-construction limited to groundwater sampling.	Low potential for impacts: health and safety during construction, minimal risk of cross media contamination, exposure post-construction limited to groundwater sampling.

Table 2.
Remedy Evaluation Summary
Plant Yates AP-3, A, B, B', and R6 CCR Landfill
Georgia Power Company



Corrective Measure	Geochemical Manipulation (In Situ Injection)	Hydraulic Containment	In-Situ Stabilization/Solidification (ISS)	Monitored Natural Attenuation	Subsurface Vertical Barrier Walls	Permeable Reactive Barrier	Phytoremediation
<i>Retained/Screened Out</i>	<i>Retained</i>	<i>Retained</i>	<i>Screened Out</i>	<i>Retained</i>	<i>Screened Out</i>	<i>Screened Out</i>	<i>Retained if needed for future compliance well SSLs downgradient of AP-A/B/B'/3 or R6 CCR Landfill</i>
Reliability	This process will likely have overall reliability in achieving GWPS goals when adequate volume and subsurface distribution are achieved. Ongoing monitoring is necessary to ensure that favorable conditions are maintained once achieved.	This technology provides moderate to high reliability based on extraction well up-time and maintenance for the treatment system.	Reliable immobilization over time with proper implementation.	This process will likely have overall reliability in achieving GWPS goals where impacted area remains internal to the site and is adequately monitored.	The reliability of this technology is limited at depth and by the ability to manage changes in the flow direction and hydraulic head of groundwater.	This technology may not provide reliability in the site-specific lithology due to difficulty in interception groundwater flow through fractured bedrock.	The presence of impacted groundwater below typical root zones would need to be addressed for phytoremediation to be a reliable technology for hydraulic control. Reliable plant species for selenium uptake are more established than for beryllium.
40 CFR 257.96(c)(2)							
Begin/Complete	Can begin immediately upon completion of pilot testing and/or bench-scale testing, which may take up to 24 months. Long-term monitoring and reporting likely required.	Time needed to model and design may take up to 24 months; variable time for construction depending on scale, generally can be accomplished in 6 months.	Time needed to model and design may take up to 24 months; variable time for construction depending on scale, generally can be accomplished relatively quickly between 6 and 12 months.	Can begin immediately. Long-term monitoring and reporting likely required.	Time needed to model and design may take up to 24 months. Variable time for construction depending on scale, generally can be accomplished relatively quickly between 6 and 12 months.	Time needed to model and design may take up to 24 months; variable time for construction depending on scale, generally can be accomplished in 6 to 12 months.	Time needed to model and design may take up to 6 months. Pilot testing may be required, which could take up to 3 years. Depending on the number of required units, the installation effort is expected to last several weeks. Full hydraulic capture/control is expected approximately 3 years after planting.
40 CFR 257.96(c)(3)							
Institutional Requirements	Deed restrictions may be necessary until in-situ treatment has achieved GWPS. A new UIC permit (for in-situ injections) would be required to implement this corrective measure. No other institutional requirements are expected at this time.	Depending on the effluent management strategy, modifications to the existing NPDES permit may be required, or obtaining a new underground injection control (UIC) permit may be needed if groundwater reinjection is chosen. In addition, deed restrictions may be required if groundwater conditions are above regulatory standards for unrestricted use.	Deed restrictions may be necessary for groundwater areas downgradient of the stabilized and/or solidified areas. No other institutional requirements are expected at this time.	MNA may require the implementation of institutional controls, such as deed restrictions, to preclude potential exposure to groundwater within the footprint of impacted groundwater until GWPS are achieved.	Deed restrictions may be necessary for groundwater areas downgradient of the barrier wall until remedial goals are met. No other institutional requirements are expected at this time.	Deed restrictions may be necessary for groundwater areas upgradient of the PRB (if not installed along the waste boundary). No other institutional requirements are expected at this time.	Deed restrictions may be necessary for groundwater areas upgradient of the phytoremediation area or TreeWell® system. No other institutional requirements are expected at this time.

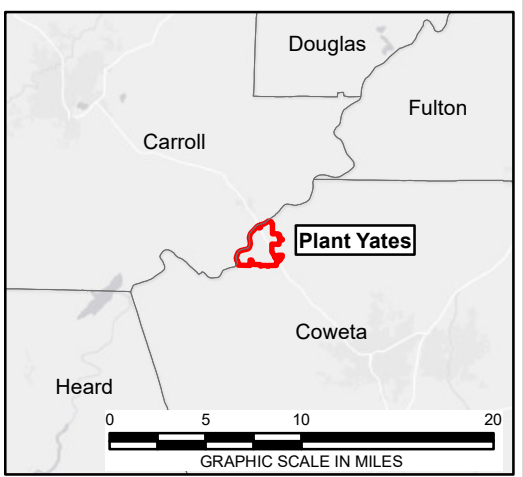
Table 2.
Remedy Evaluation Summary
Plant Yates AP-3, A, B, B', and R6 CCR Landfill
Georgia Power Company



Corrective Measure	Geochemical Manipulation (In Situ Injection)	Hydraulic Containment	In-Situ Stabilization/Solidification (ISS)	Monitored Natural Attenuation	Subsurface Vertical Barrier Walls	Permeable Reactive Barrier	Phytoremediation
<i>Retained/Screened Out</i>	<i>Retained</i>	<i>Retained</i>	<i>Screened Out</i>	<i>Retained</i>	<i>Screened Out</i>	<i>Screened Out</i>	<i>Retained if needed for future compliance well SSLs downgradient of AP-A/B/B'/3 or R6 CCR Landfill</i>
Other Env or Public Health Requirements	None expected at this point. Based on downgradient sampling results near adjacent waterbodies, there currently appear to be no potential receptors downgradient of the units.	Based on downgradient sampling results near adjacent waterbodies, there currently are no complete receptor pathways downgradient of the units. Aboveground treatment components may need to be present for an extended period, generating residuals requiring management and disposal.	None expected at this point. Based on downgradient sampling results near adjacent waterbodies, there currently appear to be no potential receptors downgradient of the unit. Following implementation of ISS, this source control remedy is passive, does not create carbon emissions, and preserves groundwater resources.	Little to no physical disruption to remediation areas and no adverse construction-related impacts are expected on the surrounding community. Based on downgradient sampling results near adjacent waterbodies, there currently are no complete receptor pathways downgradient of the units.	Based on downgradient sampling results near adjacent waterbodies, there currently appear to be no potential receptors downgradient of the unit. Due to the potential need for groundwater extraction associated with barrier walls, aboveground treatment components may need to be present for an extended period, creating carbon emissions and generating residuals requiring management and disposal.	None expected at this point. Based on downgradient sampling results near adjacent waterbodies, there currently are no complete receptor pathways downgradient of the unit. Following installation, the remedy is passive.	None expected at this point. Based on downgradient sampling results near adjacent waterbodies, there currently are no complete receptor pathways downgradient of the units. Innovative and green technology may be positively received by various stakeholders. Following installation, the remedy is passive and does not require external energy.
Relative Costs and Screening							
Relative Costs	Moderate costs are associated with this technology.	High costs are associated with this technology (O&M and groundwater disposal).	High costs are associated with this technology.	Relatively lower capital costs are associated with this technology.	High capital costs are associated with this technology.	High capital costs are associated with this technology.	Relatively lower costs are associated with this technology. May require periodic harvesting and disposal of plant species.
Retaining Technology for Further Evaluation?	Yes	Yes	No. ISS technology would be difficult to impractical to implement at the scale of the AMA and R6 landfill.	Yes	No. Site-specific hydrogeology limits implementability, performance, and effectiveness.	No. Site-specific hydrogeology limits implementability, performance, and effectiveness.	Yes

Notes:
AMA = Ash Management Area
CCR = Coal Combustion Rule
CFR = Code of Federal Regulations
GWPS = Groundwater Protection Standard
MNA = monitored natural attenuation
NPDES = National Pollutant Discharge Elimination System
O&M = operation and maintenance
PRB = permeable reactive barrier
SSL = statistically significant level
UIC = underground injection control

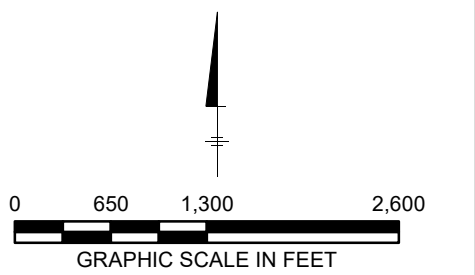
Figures




LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- PERMITTED UNIT BOUNDARY

NOTE:
 AERIAL IMAGE SOURCES: NOVEMBER 11, 2020
 IMAGERY FLOWN AND PROCESSED BY SAM LLC;
 NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP)
 2019 IMAGERY.



COORDINATE SYSTEM: NAD 1983 STATEPLANE
 GEORGIA WEST FIPS 1002 FEET

 **Georgia Power**
 PLANT YATES AP-3, A, B, B', AND R6 CCR LANDFILL
 NEWNAN, GA
 2021 SEMIANNUAL REMEDY SELECTION AND
 PROGRESS REPORT

SITE LOCATION MAP

 **ARCADIS** FIGURE
1

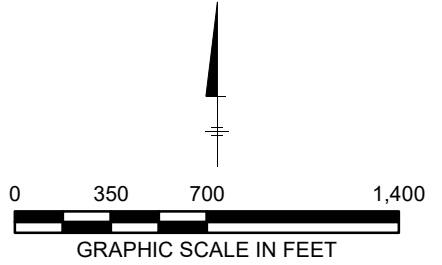


LEGEND

- SAPROLITE NETWORK MONITORING WELL LOCATION
- TRANSITION NETWORK MONITORING WELL LOCATION
- BEDROCK NETWORK MONITORING WELL LOCATION
- SAPROLITE NON-NETWORK WELL/PIEZOMETER
- TRANSITION NON-NETWORK WELL/PIEZOMETER
- BEDROCK NON-NETWORK WELL/PIEZOMETER
- PERMITTED UNIT BOUNDARY

NOTE:

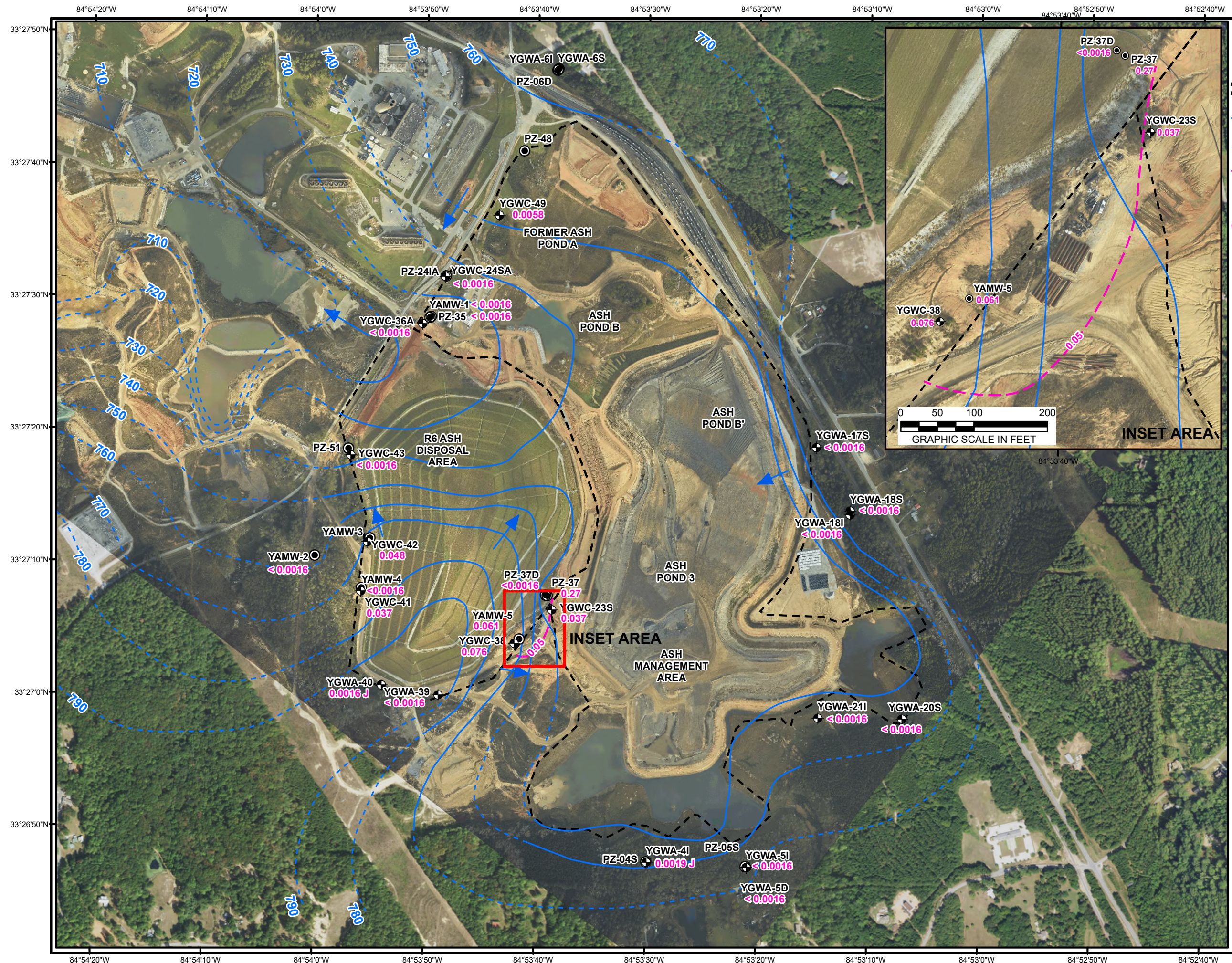
1. PZ-37D WAS INSTALLED AS A VERTICAL DELINEATION WELL FOR PZ-37 IN APRIL 2021.
2. AERIAL IMAGE SOURCES: NOVEMBER 11, 2020 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2019 IMAGERY.



COORDINATE SYSTEM: NAD 1983 STATEPLANE
GEORGIA WEST FIPS 1002 FEET

Georgia Power
PLANT YATES AP-3, A, B, B', AND R6 CCR LANDFILL
NEWNAN, GA
2021 SEMIANNUAL REMEDY SELECTION AND
PROGRESS REPORT

WELL LOCATION MAP



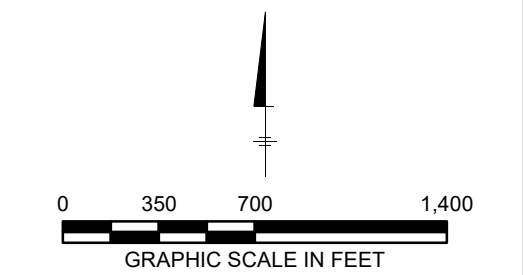
LEGEND

- ⊕ MONITORING WELL LOCATION
- NON-NETWORK WELL/PIEZOMETER
- PERMITTED UNIT BOUNDARY
- - - APPROXIMATE POTENTIOMETRIC CONTOUR (FEET) DASHED WHERE INFERRED
- GROUNDWATER FLOW DIRECTION
- - - SELENIUM ISOCONTOUR LINE (DASHED WHERE INFERRED)

SELENIUM GROUNDWATER PROTECTION STANDARD VALUE = 0.050 mg/L

0.046 SELENIUM CONCENTRATION VALUES (mg/L)

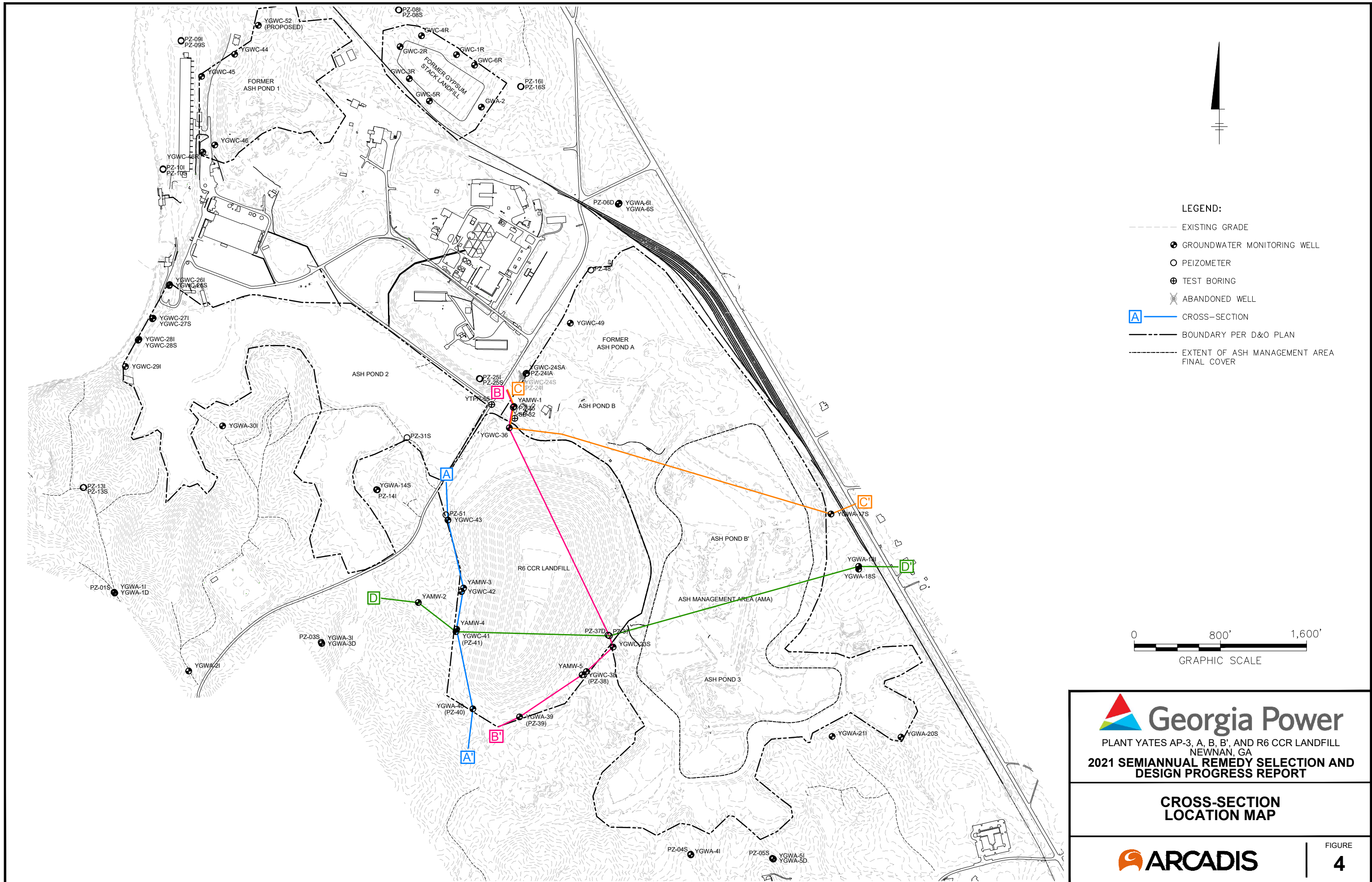
- NOTES:**
1. RESULTS ARE PROVIDED IN MILLIGRAMS PER LITER (mg/L)
 2. J = ESTIMATED VALUE
 3. SAMPLES WERE COLLECTED ON MARCH 2-4 AND APRIL 14, 2021.
 4. APPROXIMATE POTENTIOMETRIC CONTOURS DATED MARCH 2, 2021.
 5. AERIAL IMAGE SOURCES: NOVEMBER 11, 2020 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2019 IMAGERY.



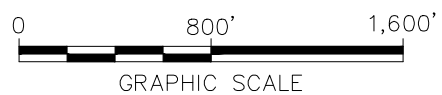
COORDINATE SYSTEM: NAD 1983 STATEPLANE
GEORGIA WEST FIPS 1002 FEET


Georgia Power
PLANT YATES AP-3, A, B, B', AND R6 CCR LANDFILL
NEWNAN, GA
2021 SEMIANNUAL REMEDY SELECTION AND PROGRESS REPORT

SELENIUM ISOCONCENTRATION MAP, MARCH 2021




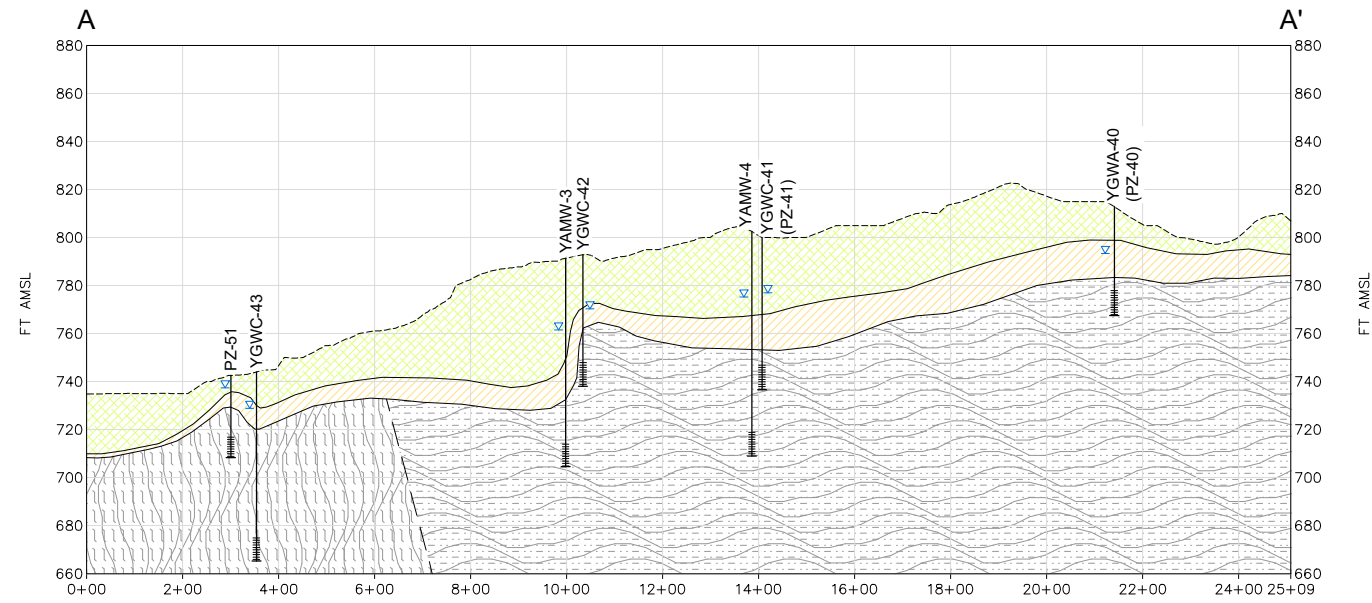
- LEGEND:**
- EXISTING GRADE
 - GROUNDWATER MONITORING WELL
 - PEIZOMETER
 - ⊕ TEST BORING
 - ⊗ ABANDONED WELL
 - A — CROSS-SECTION
 - BOUNDARY PER D&O PLAN
 - - - - - EXTENT OF ASH MANAGEMENT AREA FINAL COVER




Georgia Power
 PLANT YATES AP-3, A, B, B', AND R6 CCR LANDFILL
 NEWNAN, GA
2021 SEMIANNUAL REMEDY SELECTION AND DESIGN PROGRESS REPORT

CROSS-SECTION LOCATION MAP





LEGEND:

- WATER ELEVATION (MARCH 2021)
- ▬ WELL SCREEN

SAPROLITE:

- ▨ SILTY SAND – LIGHT BROWN TO TAN FINE-MEDIUM GRAINED SAND WITH SILT. LOOSE
- ▨ CLAYEY SAND – MOTTLED TO BROWN, FINE TO MEDIUM GRAINED SAND WITH CLAY. LOOSE.

TRANSITION ZONE:

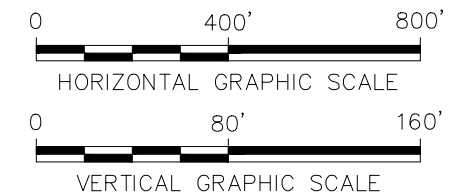
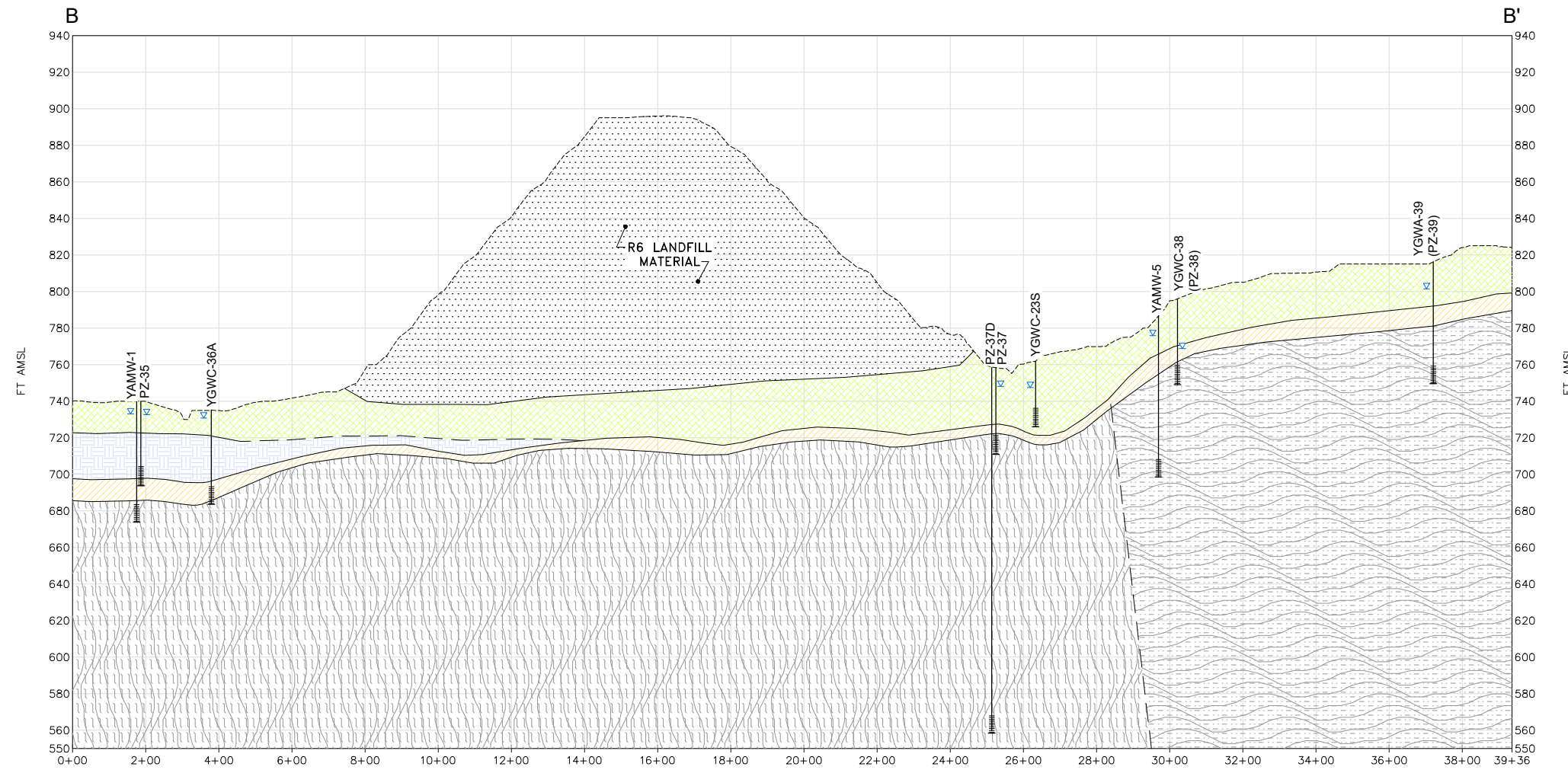
- ▨ HIGHLY WEATHERED AND HIGHLY FRACTURED BIOTITE GNEISS, GRANITIC GNEISS, AND MICA SCHIST. FINE TO COARSE SAND AND GRAVEL PRESENT

BEDROCK:

- ▨ BEDROCK (UNDIFFERENTIATED) – UNDIFFERENTIATED BIOTITE GNEISS, GRANITIC GNEISS, AND MICA SCHIST. MODERATELY TO INTENSELY FOLIATED
- ▨ BIOTITE GNEISS – BIOTITE AND MUSCOVITE GNEISS. MODERATELY TO INTENSELY FOLIATED

NOTES:

1. WATER ELEVATIONS NOT COLLECTED FOR PZ-37D IN MARCH 2021.
2. CROSS SECTION ELEVATIONS ARE MEASURED IN FEET ABOVE MEAN SEA LEVEL (AMSL).



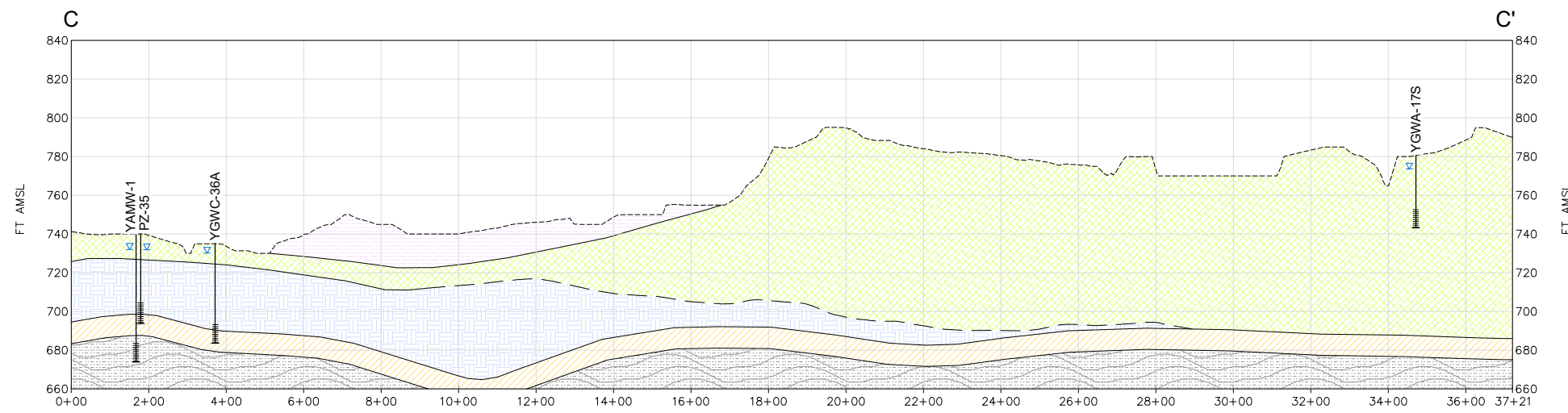
Georgia Power
 PLANT YATES AP-3, A, B, B', AND R6 CCR LANDFILL
 NEWNAN, GA
2021 SEMIANNUAL REMEDY SELECTION AND DESIGN PROGRESS REPORT

**CROSS-SECTIONS
 A-A' AND B-B'**

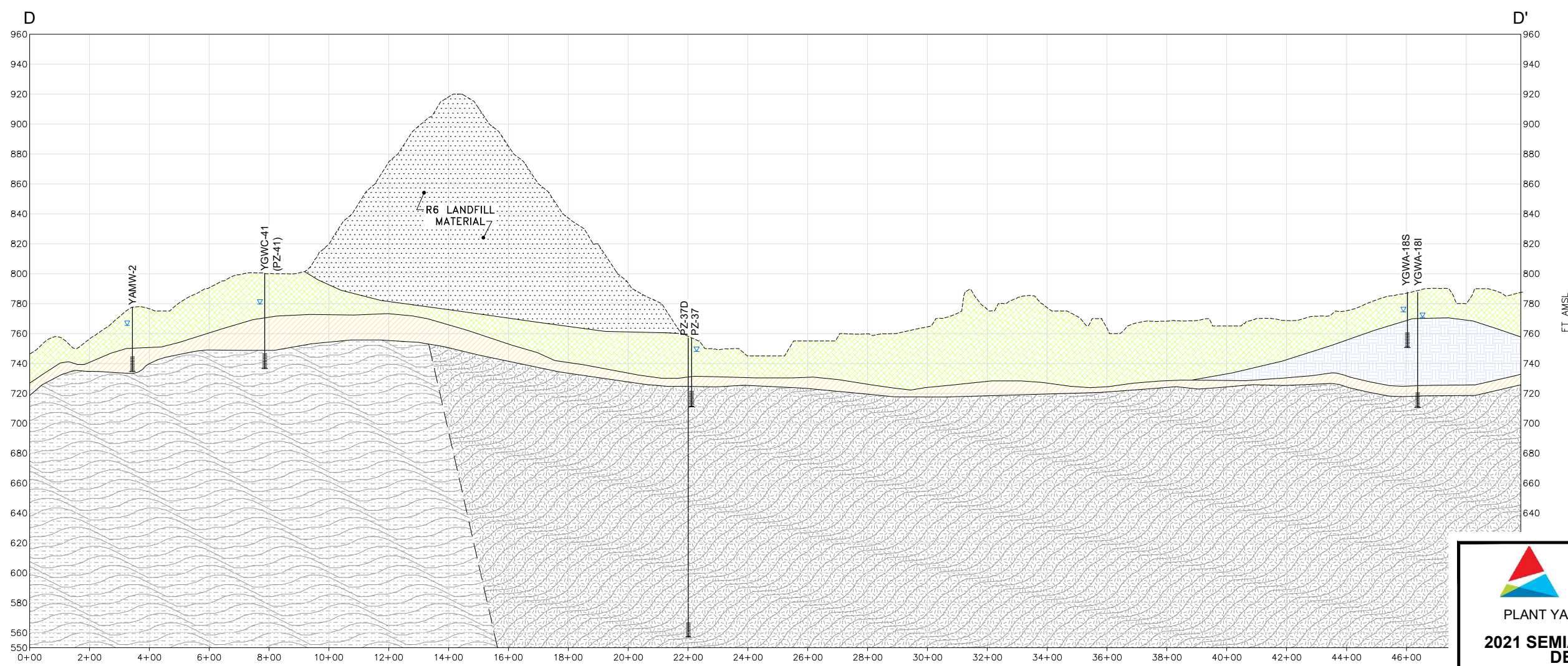


FIGURE

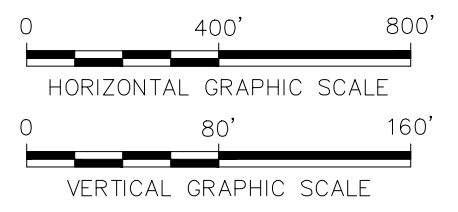
5



- LEGEND:**
- WATER ELEVATION (MARCH 2021)
 - WELL SCREEN
- SAPROLITE:**
- SANDY SILT- LIGHT BROWN TO BROWN SANDY SILT. LOW PLASTICITY
 - SILTY SAND - LIGHT BROWN TO TAN FINE-MEDIUM GRAINED SAND WITH SILT. LOOSE
 - CLAYEY SAND - MOTTLED TO BROWN, FINE TO MEDIUM GRAINED SAND WITH CLAY. LOOSE.
- TRANSITION ZONE:**
- HIGHLY WEATHERED AND HIGHLY FRACTURED BIOTITE GNEISS, GRANITIC GNEISS, AND MICA SCHIST. FINE TO COARSE SAND AND GRAVEL PRESENT
- BEDROCK:**
- GRANITIC GNEISS -GRAY TO WHITE, BIOTITE, MUSCOVITE, QUARTZ, PLAGIOCLASE GNEISS. MODERATELY TO INTENSELY FOLIATED
 - BIOTITE GNEISS - BIOTITE AND MUSCOVITE GNEISS. MODERATELY TO INTENSELY FOLIATED



- NOTES:**
1. WATER ELEVATIONS NOT COLLECTED FOR PZ-37D IN MARCH 2021.
 2. CROSS SECTION ELEVATIONS ARE MEASURED IN FEET ABOVE MEAN SEA LEVEL (AMSL).

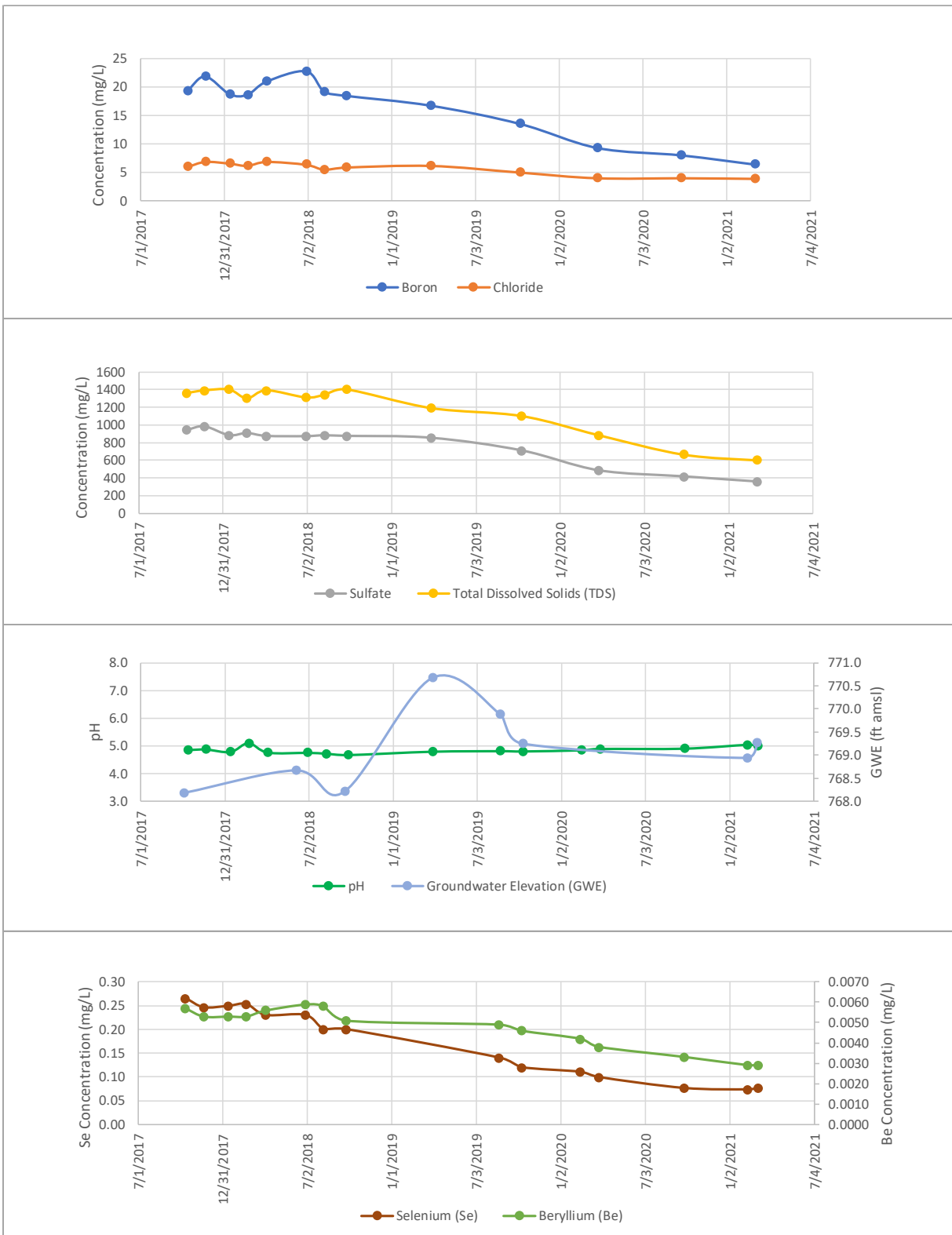


PLANT YATES AP-3, A, B, B', AND R6 CCR LANDFILL
 NEWNAN, GA
2021 SEMIANNUAL REMEDY SELECTION AND DESIGN PROGRESS REPORT


**CROSS-SECTIONS
 C-C' AND D-D'**




YGWC-38



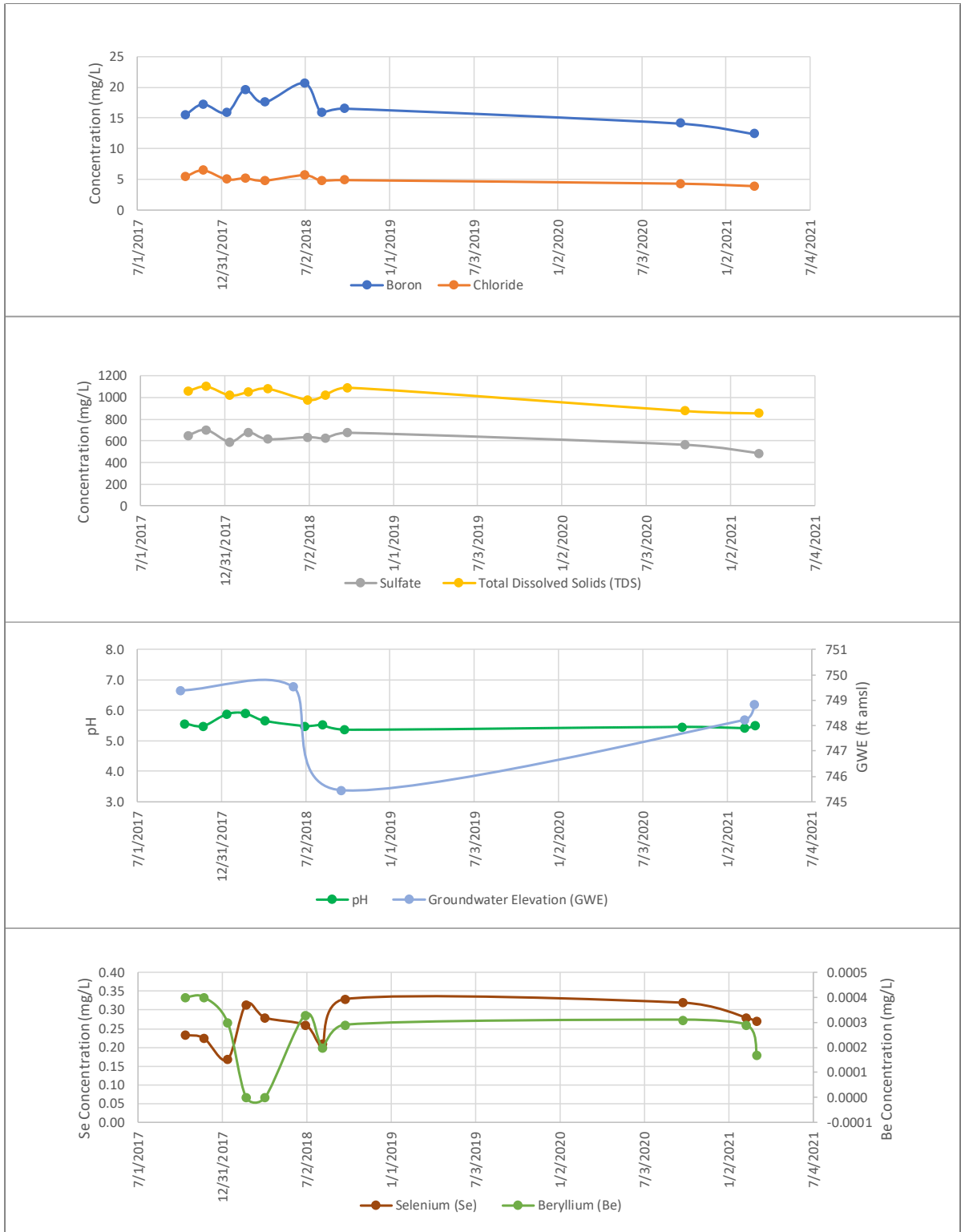
Notes:
 mg/L – milligrams per liter
 ft amsl – feet above mean sea level


 PLANT YATES AP-3, A, B, B' AND R6 CCR LANDFILL
 NEWNAN, GA
 2021 SEMIANNUAL REMEDY SELECTION AND DESIGN PROGRESS REPORT


YGWC-38 CONCENTRATION TRENDS


FIGURE
7

PZ-37



Notes:
 mg/L – milligrams per liter
 ft amsl – feet above mean sea level



PLANT YATES AP-3, A, B, B' AND R6 CCR LANDFILL
 NEWNAN, GA
 2021 SEMIANNUAL REMEDY SELECTION AND DESIGN PROGRESS REPORT

PZ-37 CONCENTRATION TRENDS


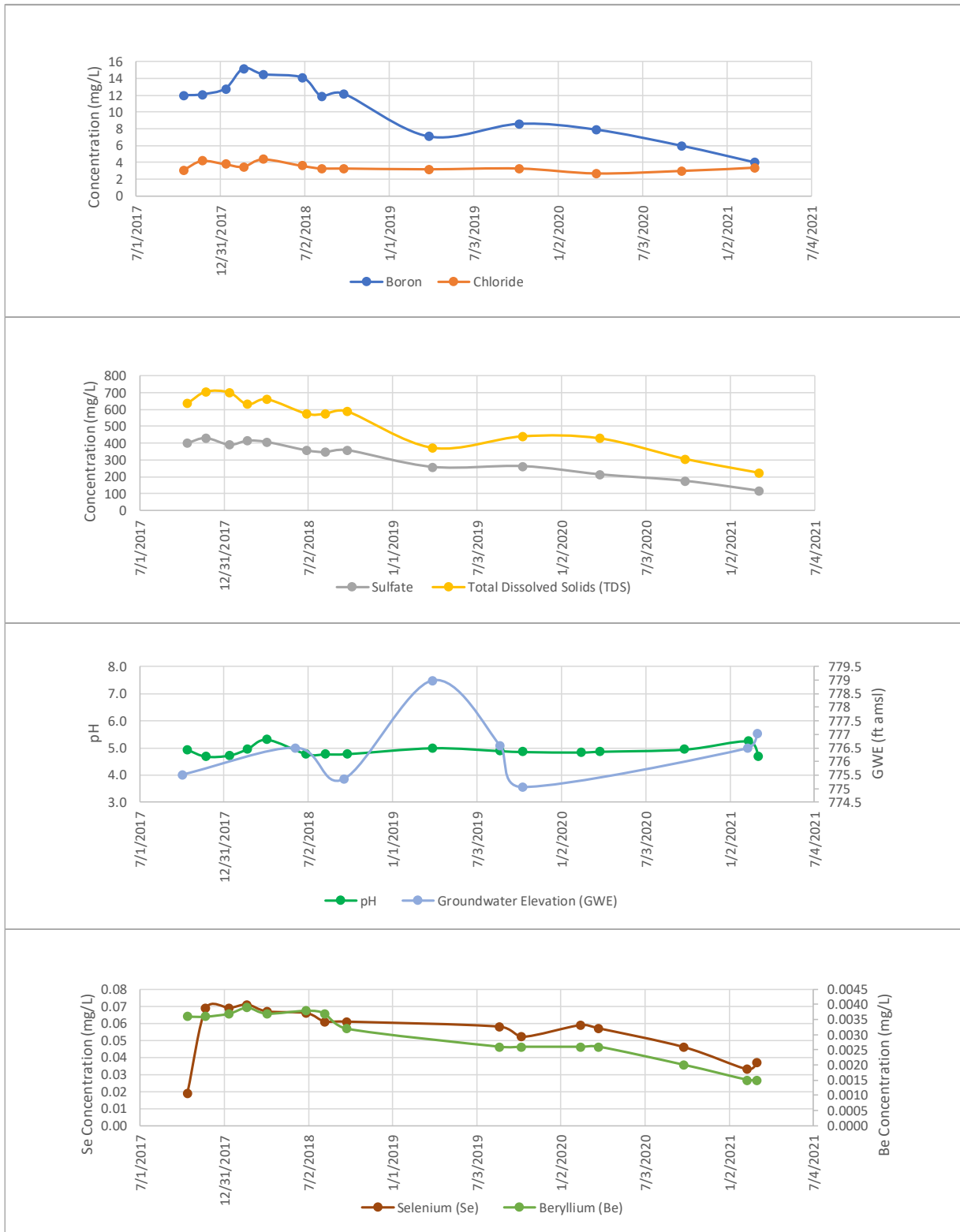



FIGURE
8

YGWC-41



Notes:
 mg/L – milligrams per liter
 ft amsl – feet above mean sea level


 PLANT YATES AP-3, A, B, B' AND R6 CCR LANDFILL
 NEWNAN, GA
 2021 SEMIANNUAL REMEDY SELECTION AND DESIGN PROGRESS REPORT

YGWC-41 CONCENTRATION TRENDS

 | FIGURE 9

Attachment 1

Analytical Lab Reports

March 28, 2021

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

RE: Project: YATES RADS
Pace Project No.: 92525905

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory on March 05, 2021. 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,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Samantha Thomas
Maribel Vital



REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: YATES RADS
Pace Project No.: 92525905

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 #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: YATES RADS

Pace Project No.: 92525905

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92525905001	YAMW-2	Water	03/03/21 14:10	03/05/21 09:20
92525905002	YAMW-4	Water	03/03/21 13:05	03/05/21 09:20
92525905003	YAMW-5	Water	03/04/21 14:15	03/05/21 09:20
92525905004	YAMW-1	Water	03/03/21 15:15	03/05/21 09:20
92525905005	PZ-35	Water	03/04/21 15:30	03/05/21 09:20
92525905006	EB1	Water	03/04/21 16:00	03/05/21 09:20
92525905007	PZ-37	Water	03/04/21 11:55	03/05/21 09:20

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: YATES RADS
Pace Project No.: 92525905

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92525905001	YAMW-2	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525905002	YAMW-4	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525905003	YAMW-5	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525905004	YAMW-1	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525905005	PZ-35	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525905006	EB1	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525905007	PZ-37	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES RADS
Pace Project No.: 92525905

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525905001	YAMW-2					
EPA 9315	Radium-226	0.101 ± 0.102 (0.188)	pCi/L		03/25/21 08:50	
EPA 9320	Radium-228	C:85% T:NA 0.462 ± 0.393 (0.795)	pCi/L		03/25/21 12:21	
Total Radium Calculation	Total Radium	C:80% T:79% 0.563 ± 0.495 (0.983)	pCi/L		03/26/21 14:34	
92525905002	YAMW-4					
EPA 9315	Radium-226	0.252 ± 0.159 (0.242)	pCi/L		03/25/21 08:50	
EPA 9320	Radium-228	C:72% T:NA 0.822 ± 0.449 (0.823)	pCi/L		03/25/21 12:21	
Total Radium Calculation	Total Radium	C:80% T:80% 1.07 ± 0.608 (1.07)	pCi/L		03/26/21 14:34	
92525905003	YAMW-5					
EPA 9315	Radium-226	0.479 ± 0.208 (0.275)	pCi/L		03/25/21 08:50	
EPA 9320	Radium-228	C:84% T:NA 0.979 ± 0.406 (0.656)	pCi/L		03/25/21 12:21	
Total Radium Calculation	Total Radium	C:81% T:89% 1.46 ± 0.614 (0.931)	pCi/L		03/26/21 14:34	
92525905004	YAMW-1					
EPA 9315	Radium-226	0.131 ± 0.146 (0.301)	pCi/L		03/26/21 08:05	
EPA 9320	Radium-228	C:79% T:NA 0.246 ± 0.446 (0.975)	pCi/L		03/23/21 13:46	
Total Radium Calculation	Total Radium	C:81% T:71% 0.377 ± 0.592 (1.28)	pCi/L		03/26/21 14:34	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES RADS
Pace Project No.: 92525905

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525905005	PZ-35					
EPA 9315	Radium-226	0.131 ± 0.116 (0.213) C:96% T:NA	pCi/L		03/26/21 08:05	
EPA 9320	Radium-228	0.266 ± 0.375 (0.806) C:85% T:83%	pCi/L		03/23/21 13:46	
Total Radium Calculation	Total Radium	0.397 ± 0.491 (1.02)	pCi/L		03/26/21 14:34	
92525905006	EB1					
EPA 9315	Radium-226	0.0452 ± 0.0923 (0.215) C:83% T:NA	pCi/L		03/26/21 08:05	
EPA 9320	Radium-228	0.393 ± 0.346 (0.695) C:82% T:77%	pCi/L		03/23/21 13:46	
Total Radium Calculation	Total Radium	0.438 ± 0.438 (0.910)	pCi/L		03/26/21 14:34	
92525905007	PZ-37					
EPA 9315	Radium-226	0.868 ± 0.271 (0.307) C:79% T:NA	pCi/L		03/26/21 08:10	
EPA 9320	Radium-228	0.626 ± 0.363 (0.662) C:78% T:92%	pCi/L		03/23/21 13:47	
Total Radium Calculation	Total Radium	1.49 ± 0.634 (0.969)	pCi/L		03/26/21 14:34	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525905

Sample: YAMW-2 **Lab ID: 92525905001** Collected: 03/03/21 14:10 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.101 ± 0.102 (0.188) C:85% T:NA	pCi/L	03/25/21 08:50	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.462 ± 0.393 (0.795) C:80% T:79%	pCi/L	03/25/21 12:21	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.563 ± 0.495 (0.983)	pCi/L	03/26/21 14:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525905

Sample: YAMW-4 **Lab ID: 92525905002** Collected: 03/03/21 13:05 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.252 ± 0.159 (0.242) C:72% T:NA	pCi/L	03/25/21 08:50	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.822 ± 0.449 (0.823) C:80% T:80%	pCi/L	03/25/21 12:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.07 ± 0.608 (1.07)	pCi/L	03/26/21 14:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525905

Sample: YAMW-5 **Lab ID: 92525905003** Collected: 03/04/21 14:15 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.479 ± 0.208 (0.275) C:84% T:NA	pCi/L	03/25/21 08:50	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.979 ± 0.406 (0.656) C:81% T:89%	pCi/L	03/25/21 12:21	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.46 ± 0.614 (0.931)	pCi/L	03/26/21 14:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525905

Sample: YAMW-1 **Lab ID: 92525905004** Collected: 03/03/21 15:15 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.131 ± 0.146 (0.301) C:79% T:NA	pCi/L	03/26/21 08:05	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.246 ± 0.446 (0.975) C:81% T:71%	pCi/L	03/23/21 13:46	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.377 ± 0.592 (1.28)	pCi/L	03/26/21 14:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525905

Sample: PZ-35 **Lab ID: 92525905005** Collected: 03/04/21 15:30 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.131 ± 0.116 (0.213) C:96% T:NA	pCi/L	03/26/21 08:05	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.266 ± 0.375 (0.806) C:85% T:83%	pCi/L	03/23/21 13:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.397 ± 0.491 (1.02)	pCi/L	03/26/21 14:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525905

Sample: EB1 **Lab ID: 92525905006** Collected: 03/04/21 16:00 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0452 ± 0.0923 (0.215) C:83% T:NA	pCi/L	03/26/21 08:05	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.393 ± 0.346 (0.695) C:82% T:77%	pCi/L	03/23/21 13:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.438 ± 0.438 (0.910)	pCi/L	03/26/21 14:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525905

Sample: PZ-37 **Lab ID: 92525905007** Collected: 03/04/21 11:55 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.868 ± 0.271 (0.307) C:79% T:NA	pCi/L	03/26/21 08:10	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.626 ± 0.363 (0.662) C:78% T:92%	pCi/L	03/23/21 13:47	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.49 ± 0.634 (0.969)	pCi/L	03/26/21 14:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525905

QC Batch: 438168

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92525905001, 92525905002, 92525905003

METHOD BLANK: 2115336

Matrix: Water

Associated Lab Samples: 92525905001, 92525905002, 92525905003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0301 ± 0.353 (0.815) C:79% T:75%	pCi/L	03/25/21 12:20	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525905

QC Batch: 438264

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92525905001, 92525905002, 92525905003

METHOD BLANK: 2115666

Matrix: Water

Associated Lab Samples: 92525905001, 92525905002, 92525905003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0177 ± 0.140 (0.349) C:93% T:NA	pCi/L	03/25/21 09:33	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525905

QC Batch: 438266

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92525905004, 92525905005, 92525905006, 92525905007

METHOD BLANK: 2115671

Matrix: Water

Associated Lab Samples: 92525905004, 92525905005, 92525905006, 92525905007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.142 ± 0.131 (0.243) C:77% T:NA	pCi/L	03/26/21 08:05	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525905

QC Batch: 438169

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92525905004, 92525905005, 92525905006, 92525905007

METHOD BLANK: 2115337

Matrix: Water

Associated Lab Samples: 92525905004, 92525905005, 92525905006, 92525905007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.429 ± 0.325 (0.634) C:80% T:90%	pCi/L	03/23/21 13:45	

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: YATES RADS

Pace Project No.: 92525905

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.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES RADS
Pace Project No.: 92525905

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525905001	YAMW-2	EPA 9315	438264		
92525905002	YAMW-4	EPA 9315	438264		
92525905003	YAMW-5	EPA 9315	438264		
92525905004	YAMW-1	EPA 9315	438266		
92525905005	PZ-35	EPA 9315	438266		
92525905006	EB1	EPA 9315	438266		
92525905007	PZ-37	EPA 9315	438266		
92525905001	YAMW-2	EPA 9320	438168		
92525905002	YAMW-4	EPA 9320	438168		
92525905003	YAMW-5	EPA 9320	438168		
92525905004	YAMW-1	EPA 9320	438169		
92525905005	PZ-35	EPA 9320	438169		
92525905006	EB1	EPA 9320	438169		
92525905007	PZ-37	EPA 9320	438169		
92525905001	YAMW-2	Total Radium Calculation	440666		
92525905002	YAMW-4	Total Radium Calculation	440666		
92525905003	YAMW-5	Total Radium Calculation	440666		
92525905004	YAMW-1	Total Radium Calculation	440666		
92525905005	PZ-35	Total Radium Calculation	440666		
92525905006	EB1	Total Radium Calculation	440666		
92525905007	PZ-37	Total Radium Calculation	440666		

REPORT OF LABORATORY ANALYSIS

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



Document Name:
Sample Condition Upon Receipt(SCUR)

Document Revised: October 28, 2020
Page 1 of 2

Document No.:
F-CAR-CS-033-Rev.07

Issuing Authority:
Pace Carolinas Quality Office

laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition
Upon Receipt

Client Name:

GA Power

Project #:

WO#: 92525905



Courier: Fed Ex UPS USPS Client
 Commercial Pace Other:

custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *3/5/24*

acking Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

ermometer: IR Gun ID: *230* Type of Ice: Wet Blue None

Yes No N/A

ooler Temp: *2.0* Correction Factor: Add/Subtract (°C) *0.0*

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

ooler Temp Corrected (°C): *2.0*

JSDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?
 Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		3.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		5.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		6.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		8.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		9.
-Includes Date/Time/ID/Analysis Matrix: <i>W</i>			
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		10.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



Document Name:
Sample Condition Upon Receipt(SCUR)
 Document No.:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020
 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, LLHg

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

Project #

WO# : 92525905

PM: KLH1

Due Date: 03/26/21

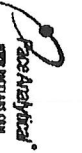
CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFW-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 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)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG8U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Required Client Information:

Company: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: Atlanta, GA 30114
 Phone: (770)334-6525
 Fax: _____
 Requested Due Date: _____

Section B

Required Project Information:

Report To: Becky Stever
 Copy To: _____
 Purchase Order #: _____
 Project Name: Yates RS-AMA
 Project #: _____

Section C

Invoice Information:

Attention: _____
 Company Name: _____
 Address: _____
 Pace Quote: _____
 Pace Project Manager: Kevin.Herrington@pacelabs.com
 Pace Profile #: 10640

Page: 1 of 2

Regulatory Agency: *OSCEP*

State / Location: GA

SAMPLE ID
 One Character per box.
 (A-Z, 0-9 / -)

ITEM #	MATERIAL	CODED	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyse Test	Requested Analyze Filtered (Y/N)	Residual Chlorine (Y/N)	PH
					START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				
1	YAMM-2	WT	1410	1305				X	X	X	X	X	X	X	X	X	X	X	PH = 5.62
2	YAMM-4	WT	1415	1530				X	X	X	X	X	X	X	X	X	X	X	PH = 6.80
3	YAMM-5	WT	1515	1530				X	X	X	X	X	X	X	X	X	X	X	PH = 5.32
4	YAMM-1	WT	1515	1530				X	X	X	X	X	X	X	X	X	X	X	PH = 6.54
5	PZ35	WT	1530	1530				X	X	X	X	X	X	X	X	X	X	X	PH = 5.64
6	EB1	WT	1530	1530				X	X	X	X	X	X	X	X	X	X	X	PH = 5.64

ADDITIONAL COMMENTS: _____

RECEIVED BY / AFFILIATION: *[Signature]* DATE: *03/04/2014* TIME: *1005*

ACCEPTED BY / AFFILIATION: *[Signature]* DATE: *03/04/2014* TIME: *0920*

SAMPLER NAME AND SIGNATURE:

PRINT Name of SAMPLER: *Peter Argyakos*

SIGNATURE of SAMPLER: *[Signature]*

DATE Signed: *03/04/2014*

TEMP in C _____
 Received on Ice (Y/N) _____
 Custody Sealed (Y/N) _____
 Cooler (Y/N) _____
 Samples Intact (Y/N) _____



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Client Information: Agency: Georgia Power, Address: 1070 Bridge Mill Ave, Norcross, GA 30114, Phone: (770) 394-6526, Fax: [blank]

Section B Required Project Information: Report To: Becky Steerer, Project Name: Yates AMA, Project #: [blank]

Section C Invoice Information: Attention: [blank], Company Name: [blank], Address: [blank], Pace Quote: [blank], Pace Project Manager: Kevin Herring@pacelabs.com, Pace Profile #: 10840

Page: 2 of 2

Section D Regulatory Agency: CDC/DOH, State / Location: GA

ITEM #	SAMPLE ID One Character per box (A-Z, 0-9, /, .) Sample IDs must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyze Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)					
				START DATE TIME	END DATE TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				Other	TDS	Cl, F, SO4	App III/IV Metals	RAD 9315/9320
13	PZ-87	WT	WT	3/4/11	5:55	5	1									X	X	X	X	X		
14	YGMW-06A	WT	WT													X	X	X	X	X		
15	YGMW-06B	WT	WT													X	X	X	X	X		
16		WT	WT													X	X	X	X	X		
17		WT	WT													X	X	X	X	X		
18		WT	WT													X	X	X	X	X		
19		WT	WT													X	X	X	X	X		
20		WT	WT													X	X	X	X	X		
21		WT	WT													X	X	X	X	X		
22																						
23																						
24																						

ADDITIONAL COMMENTS: [blank]

REWORKED BY / REFILLATION: [blank]

ACCEPTED BY / REFILLATION: [Signature]

DATE: 3-4-11 TIME: 4:45

SAMPLER NAME AND SIGNATURE: [Signature]

PRINT Name of SAMPLER: Kate R. Phlemic

SIGNATURE of SAMPLER: [Signature]

DATE Signed: 3-4-11

TEMP In C: [blank]

Received on Ice (Y/N)

Cooler Sealed Cooler (Y/N)

Samples Intact (Y/N)

PH: 5.51

April 07, 2021

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

RE: Project: YATES GPC
Pace Project No.: 92531568

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory on April 07, 2021. 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 - Peachtree Corners, GA

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

Sincerely,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Samantha Thomas
Maribel Vital



REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: YATES GPC
Pace Project No.: 92531568

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

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: YATES GPC

Pace Project No.: 92531568

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92531568001	PZ-37D (90-100)	Water	04/06/21 17:35	04/07/21 08:12

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: YATES GPC

Pace Project No.: 92531568

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92531568001	PZ-37D (90-100)	EPA 6020B	CW1	2

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES GPC

Pace Project No.: 92531568

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92531568001	PZ-37D (90-100)					
EPA 6020B	Boron	5.6	mg/L	0.20	04/07/21 14:26	
EPA 6020B	Selenium	0.14	mg/L	0.0050	04/07/21 14:20	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES GPC

Pace Project No.: 92531568

Sample: PZ-37D (90-100) **Lab ID: 92531568001** Collected: 04/06/21 17:35 Received: 04/07/21 08:12 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Boron	5.6	mg/L	0.20	0.026	5	04/07/21 10:10	04/07/21 14:26	7440-42-8	
Selenium	0.14	mg/L	0.0050	0.0016	1	04/07/21 10:10	04/07/21 14:20	7782-49-2	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES GPC

Pace Project No.: 92531568

QC Batch: 611988

Analysis Method: EPA 6020B

QC Batch Method: EPA 3005A

Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92531568001

METHOD BLANK: 3221312

Matrix: Water

Associated Lab Samples: 92531568001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	0.0063J	0.040	0.0052	04/07/21 13:45	
Selenium	mg/L	ND	0.0050	0.0016	04/07/21 13:45	

LABORATORY CONTROL SAMPLE: 3221313

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	1.0	104	80-120	
Selenium	mg/L	0.1	0.10	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3221314 3221315

Parameter	Units	3221314		3221315		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92531064001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Boron	mg/L	ND	1	1	1.0	1.1	102	109	75-125	6	20
Selenium	mg/L	ND	0.1	0.1	0.11	0.10	105	103	75-125	2	20

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: YATES GPC

Pace Project No.: 92531568

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.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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

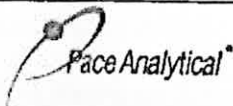
QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES GPC
Pace Project No.: 92531568

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92531568001	PZ-37D (90-100)	EPA 3005A	611988	EPA 6020B	612061

REPORT OF LABORATORY ANALYSIS

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



Document Name: Sample Condition Upon Receipt(SCUR)

Document Revised: October 28, 2020 Page 1 of 2

Document No.: F-CAR-CS-033-Rev.07

Issuing Authority: Pace Carolinas Quality Office

laboratory receiving samples:

Ashville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Project #:

OP# POWER - Arcadis

WO#: 92531568



Courier: Commercial Fed Ex Pace UPS USPS Other Client

custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 4/7/21 KRW

packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

thermometer: IR Gun ID: 230 Type of Ice: Wet Blue None

Yes No N/A

cooler Temp: 2.7 Correction Factor: Add/Subtract (°C) 0

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

cooler Temp Corrected (°C): 2.7

ISDA Regulated Soil N/A, water sample

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

	Comments/Discrepancy:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W	
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



Document Name:
Sample Condition Upon Receipt(SCUR)

Document Revised: October 23, 2010
Page 2 of 2

Document No.:
F-CAR-CS-033-Rev.07

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.

Project #

WO# : 92531568

PM: KLH1

Due Date: 04/08/21

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, UMG

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

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (C-)	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) (C-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (C-)	WGFLU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (C-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (C-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NiCl (N/A)(C-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (5 vials per kit)-50% kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP2T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-750 mL Plastic (NI12)S04 (P. 3-4-7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1																													
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
 Section B
 Section C

Required Client Information:
 Agency: Accrets (GA Project)
 Name: 1754 Kimberly Dr. SW
 Address: Atlanta, GA 30008
 Fax: _____

Required Project Information:
 Report To: Grant Willford
 Copy To: Grant Willford @AT&T's Co
 Purchase Order #: _____
 Project Name: Georgia Power Company
 Project #: _____

Invoice Information:
 Attention: _____
 Company Name: _____
 Address: _____
 Pace Quote #: _____
 Pace Project Manager: Kevin.herrington@pacealabs.com
 Pace Profile #: 10940

Regulatory Agency: _____
State / Location: GA

Page: 1 of 1

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analyses Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)
				START DATE	END DATE			H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			
1	P2-37D (90-100)			1735	1735		2									
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																

ADDITIONAL COMMENTS: Grant Willford/ Accrets

REQUISITIONED BY / AFFILIATION: Grant Willford

DATE: 4/21/08

ACCEPTED BY / AFFILIATION: K. W. [Signature]

DATE: 4/7/08

SAMPLE CONDITIONS:

TEMP in C _____

Received on Ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE:
 PRINT Name of SAMPLER: Grant Willford
 SIGNATURE of SAMPLER: [Signature]

DATE Signed: 4/7/2011

April 12, 2021

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

RE: Project: YATES
Pace Project No.: 92532158

Dear Ms. Petty:

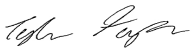
Enclosed are the analytical results for sample(s) received by the laboratory on April 08, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise 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 - Peachtree Corners, GA

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

Sincerely,



Tyler Forney for
Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Samantha Thomas
Maribel Vital



REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: YATES
Pace Project No.: 92532158

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

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: YATES
Pace Project No.: 92532158

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92532158001	PZ-37D (130-150)	Water	04/08/21 15:05	04/08/21 16:45

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: YATES
Pace Project No.: 92532158

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92532158001	PZ-37D (130-150)	EPA 6020B	CW1	2
		EPA 6020B	CW1	2

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES
Pace Project No.: 92532158

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92532158001	PZ-37D (130-150)					
EPA 6020B	Boron	5.6	mg/L	0.040	04/09/21 11:25	
EPA 6020B	Selenium	0.18	mg/L	0.0050	04/09/21 11:25	
EPA 6020B	Boron, Dissolved	6.7	mg/L	0.040	04/09/21 12:33	M1
EPA 6020B	Selenium, Dissolved	0.18	mg/L	0.0050	04/09/21 12:33	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92532158

Sample: PZ-37D (130-150)		Lab ID: 92532158001		Collected: 04/08/21 15:05		Received: 04/08/21 16:45		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Boron	5.6	mg/L	0.040	0.0052	1	04/09/21 08:00	04/09/21 11:25	7440-42-8	
Selenium	0.18	mg/L	0.0050	0.0016	1	04/09/21 08:00	04/09/21 11:25	7782-49-2	
6020 MET ICPMS, Dissolved		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Boron, Dissolved	6.7	mg/L	0.040	0.0052	1	04/09/21 08:00	04/09/21 12:33	7440-42-8	M1
Selenium, Dissolved	0.18	mg/L	0.0050	0.0016	1	04/09/21 08:00	04/09/21 12:33	7782-49-2	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92532158

QC Batch: 612504 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92532158001

METHOD BLANK: 3224301 Matrix: Water
Associated Lab Samples: 92532158001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.040	0.0052	04/09/21 11:14	
Selenium	mg/L	ND	0.0050	0.0016	04/09/21 11:14	

LABORATORY CONTROL SAMPLE: 3224302

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.98	98	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3224303 3224304

Parameter	Units	92531885022		3224304		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Boron	mg/L	ND	1	1	0.98	0.93	96	92	75-125	5	20
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	99	101	75-125	2	20

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92532158

QC Batch: 612505 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET Dissolved
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92532158001

METHOD BLANK: 3224306 Matrix: Water

Associated Lab Samples: 92532158001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron, Dissolved	mg/L	ND	0.040	0.0052	04/09/21 12:21	
Selenium, Dissolved	mg/L	ND	0.0050	0.0016	04/09/21 12:21	

LABORATORY CONTROL SAMPLE: 3224307

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron, Dissolved	mg/L	1	1.1	105	80-120	
Selenium, Dissolved	mg/L	0.1	0.11	110	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3224308 3224309

Parameter	Units	92532158001		3224309		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Boron, Dissolved	mg/L	6.7	1	6.8	7.2	6	46	75-125	6	20	M1
Selenium, Dissolved	mg/L	0.18	0.1	0.26	0.28	81	105	75-125	9	20	

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: YATES
Pace Project No.: 92532158

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.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES
Pace Project No.: 92532158

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92532158001	PZ-37D (130-150)	EPA 3005A	612504	EPA 6020B	612639
92532158001	PZ-37D (130-150)	EPA 3005A	612505	EPA 6020B	612641

REPORT OF LABORATORY ANALYSIS

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

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO# : 92532158



Courier: Commercial Fed Ex UPS USPS Client Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 4/8/20
COZ

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer: R Gun ID: 233 Type of Ice: Wet Blue None

Biological Tissue Frozen? Yes No N/A

Cooler Temp: 19.0 Correction Factor: Add/Subtract (°C) -0.2

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 18.8

USDA Regulated Soil (N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

	Comments/Discrepancy:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4. <u>ASAP</u>
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <u>WW</u>	
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



Document Name:
Sample Condition Upon Receipt (SCUR)
Document No:
F-CAR-CS-033-Rev.07

Document Revised: October 23, 2010
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.

Project #

WO# : 92532158

PM: KLH1

Due Date: 04/09/21

CLIENT: GA-GA Power

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, UHg

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

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-1.25 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-1.25 mL Plastic 2N Acetate & NaOH (>9)	BP4C-1.25 mL Plastic NaOH (pH > 12) (Cl-)	WGJU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9Y-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Upp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-F035 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)	BP3A-250 mL Plastic (NH2)2SO4 (2,3,9,7)	AG6U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1																													
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.



Section A
 Section B
 Section C

Client Information:
 Name: Georgia Power
 Address: 2839 Paces Ferry Rd.
 Atlanta, GA 30339

Project Information:
 Report To: Geoffrey Gay
 Copy To:
 Purchase Order #:
 Project Name: Yates
 Project #:

Company Information:
 Attention:
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: Kevin Herring@pacelabs.com
 Pace Profile #: 10840

Regulatory Agency:
 State / Location: GA

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES							Analyses Test	Y/N	Residual Chlorine (Y/N)		
			START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				Other	
1	02-370-(130-150)	U	1/27/01	1/30/01	15.0	2			X									
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

ADDITIONAL COMMENTS	REIMBURSED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
RUSTY	Grant Wilford / EPA	4/10/01		Grant Wilford	4/9/01	16:45	Received on ice <input type="checkbox"/> (Y/N) Custody Sealed <input type="checkbox"/> Cooler <input type="checkbox"/> (Y/N) Samples Intact <input type="checkbox"/> (Y/N)

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Grant Wilford
 SIGNATURE of SAMPLER: *[Signature]*
 DATE SIGNED: 4/9/01

April 15, 2021

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

RE: Project: YATES
Pace Project No.: 92533139

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory on April 14, 2021. 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 - Peachtree Corners, GA

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

Sincerely,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Samantha Thomas
Maribel Vital



REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: YATES
Pace Project No.: 92533139

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

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: YATES
Pace Project No.: 92533139

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92533139001	PZ-37D (195-200)	Water	04/14/21 12:14	04/14/21 15:00

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: YATES
Pace Project No.: 92533139

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92533139001	PZ-37D (195-200)	EPA 6020B	CW1	2
		EPA 6020B	CW1	2

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES
Pace Project No.: 92533139

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92533139001	PZ-37D (195-200)					
EPA 6020B	Boron	0.038J	mg/L	0.040	04/15/21 10:03	
EPA 6020B	Boron, Dissolved	0.040	mg/L	0.040	04/15/21 10:55	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92533139

Sample: PZ-37D (195-200) Lab ID: 92533139001 Collected: 04/14/21 12:14 Received: 04/14/21 15:00 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Boron	0.038J	mg/L	0.040	0.0052	1	04/14/21 15:19	04/15/21 10:03	7440-42-8	
Selenium	ND	mg/L	0.0050	0.0016	1	04/14/21 15:19	04/15/21 10:03	7782-49-2	
6020 MET ICPMS, Dissolved									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Boron, Dissolved	0.040	mg/L	0.040	0.0052	1	04/14/21 15:21	04/15/21 10:55	7440-42-8	
Selenium, Dissolved	ND	mg/L	0.0050	0.0016	1	04/14/21 15:21	04/15/21 10:55	7782-49-2	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92533139

QC Batch: 613734	Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A	Analysis Description: 6020 MET
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92533139001

METHOD BLANK: 3230180 Matrix: Water

Associated Lab Samples: 92533139001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.040	0.0052	04/15/21 09:52	
Selenium	mg/L	ND	0.0050	0.0016	04/15/21 09:52	

LABORATORY CONTROL SAMPLE: 3230181

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.96	96	80-120	
Selenium	mg/L	0.1	0.094	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3230182 3230183

Parameter	Units	92533139001		3230183		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Boron	mg/L	0.040	1	1	0.98	0.97	94	93	75-125	2	20
Selenium	mg/L	ND	0.1	0.1	0.097	0.086	95	85	75-125	11	20

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92533139

QC Batch: 613736 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET Dissolved
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92533139001

METHOD BLANK: 3230190 Matrix: Water
Associated Lab Samples: 92533139001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron, Dissolved	mg/L	ND	0.040	0.0052	04/15/21 10:44	
Selenium, Dissolved	mg/L	ND	0.0050	0.0016	04/15/21 10:44	

LABORATORY CONTROL SAMPLE: 3230191

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron, Dissolved	mg/L	1	1.1	106	80-120	
Selenium, Dissolved	mg/L	0.1	0.092	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3230192 3230193

Parameter	Units	92533139001		3230193		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Boron, Dissolved	mg/L	0.040	1	1	1.0	1.1	96	105	75-125	8	20
Selenium, Dissolved	mg/L	ND	0.1	0.1	0.094	0.097	94	97	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

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

QUALIFIERS

Project: YATES
Pace Project No.: 92533139

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.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES
Pace Project No.: 92533139

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92533139001	PZ-37D (195-200)	EPA 3005A	613734	EPA 6020B	613780
92533139001	PZ-37D (195-200)	EPA 3005A	613736	EPA 6020B	613779

REPORT OF LABORATORY ANALYSIS

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



Document Name:
Sample Condition Upon Receipt (SCUR)
 Document No.:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020
 Page 1 of 2
 Issuing Authority:
 Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: Arredias Gk Power

Project #:

WO# : 92533139



Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 8/14/21
COV

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Thermometer: IR Gun ID: 233 Type of Ice: Wet Blue None

Yes No N/A

Cooler Temp: 21.3 Correction Factor: Add/Subtract (°C) -0.2
21.1

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 21.1

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

Yes No

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Rush Turn Around Time Requested?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	<u>24 hr TAT</u>
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.	
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Dissolved analysis: Samples Field Filtered?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.	<u>8/14/21</u>
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Includes Date/Time/ID/Analysis Matrix:	<u>W</u>		
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.	
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



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

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/3015 (water) DOC, LHg

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

Project #

WO#: 92533139

PM: KLH1

Due Date: 04/15/21

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP2U-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 (p>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H1104 (N/A)	VOAK (6 vials per kit)-VOAK kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP2T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (N/A) (Cl-)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1																													
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of preservative added	Lot #

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

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.



Section A	Section B	Section C
Required Client Information: Agency: Accords (GA Power) Address: 1754 Kimberly Dr. SW City: Atlanta GA 30008 Phone: _____ Fax: _____ Project Name: _____ Project #: _____ Requested Due Date: 4/14/2021	Required Project Information: Report To: Grant Willford Copy To: Grant Willford Purchase Order #: _____ Address: _____ Company Name: _____ Attention: _____ Pace Quote: _____ Pace Project Manager: Kevin Herting@pacelabs.com Pace Profile #: 10840	Invoice Information: Regulatory Agency: _____ State / Location: GA

ITEM #	MATRIX CODE (see veld codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analyse Test	Y/N	Requester's Analysis Returned (Y/N)	Residual Chlorine (Y/N)
			START	END							
1	P2-370-(195-200)	W G	4/14/21	12:04	4/14/21	12:14	X			XX	
MATRIX CODE (see veld codes to left): Drinking Water: DWD Wastewater: WWTU Waste Water: WWD Product: P Solid: SLC WPC: WPC AWC: AWC Other: OTD TS: TS											
SAMPLE ID: One Character per box. (A-Z, 0-9, -) Sample IDs must be unique											

REIMBURSED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Rush TAT			Grant Willford/Accords	4/14/21	15:00
			Charles Fink	9/14/21	15:00

SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: Grant Willford SIGNATURE BY SAMPLER: _____ DATE Signed: 4/14/2021	
TEMP In C	Received on Ice <input type="checkbox"/> (Y/N) Custody Sealed <input type="checkbox"/> (Y/N) Cooler <input type="checkbox"/> (Y/N) Samples Intact <input type="checkbox"/> (Y/N)

May 21, 2021

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

RE: Project: YATES
Pace Project No.: 92538834

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory on May 14, 2021. 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,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Samantha Thomas
Maribel Vital



REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: YATES
Pace Project No.: 92538834

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: YATES
Pace Project No.: 92538834

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92538834001	PZ-37D	Water	05/13/21 12:30	05/14/21 09:30
92538834002	FB-1	Water	05/13/21 11:30	05/14/21 09:30
92538834003	EB-1	Water	05/13/21 18:30	05/14/21 09:30
92538834004	DUP-1	Water	05/13/21 00:00	05/14/21 09:30

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: YATES
Pace Project No.: 92538834

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92538834001	PZ-37D	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92538834002	FB-1	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92538834003	EB-1	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92538834004	DUP-1	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3

PASI-A = Pace Analytical Services - Asheville
PASI-C = Pace Analytical Services - Charlotte
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES
Pace Project No.: 92538834

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92538834001	PZ-37D					
	Performed by	CUSTOME			05/14/21 14:40	
		R				
	pH	7.79	Std. Units		05/14/21 14:40	
EPA 6010D	Calcium	68.3	mg/L	1.0	05/18/21 16:27	
EPA 6020B	Antimony	0.00052J	mg/L	0.0030	05/19/21 14:44	B
EPA 6020B	Barium	0.015	mg/L	0.0050	05/19/21 14:44	
EPA 6020B	Boron	1.3	mg/L	0.040	05/19/21 14:44	
EPA 6020B	Lead	0.000049J	mg/L	0.0010	05/19/21 14:44	
EPA 6020B	Lithium	0.011J	mg/L	0.030	05/19/21 14:44	
EPA 6020B	Molybdenum	0.0042J	mg/L	0.010	05/19/21 14:44	
SM 2540C-2011	Total Dissolved Solids	381	mg/L	10.0	05/19/21 08:19	
EPA 300.0 Rev 2.1 1993	Chloride	4.0	mg/L	1.0	05/18/21 01:17	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	05/18/21 01:17	M1
EPA 300.0 Rev 2.1 1993	Sulfate	178	mg/L	3.0	05/18/21 15:11	M1
92538834002	FB-1					
EPA 6020B	Antimony	0.0019J	mg/L	0.0030	05/19/21 15:06	B
EPA 6020B	Boron	0.0092J	mg/L	0.040	05/19/21 15:06	
92538834003	EB-1					
EPA 6020B	Antimony	0.00067J	mg/L	0.0030	05/19/21 15:12	B
EPA 6020B	Boron	0.0052J	mg/L	0.040	05/19/21 15:12	
92538834004	DUP-1					
EPA 6010D	Calcium	71.6	mg/L	1.0	05/18/21 17:24	
EPA 6020B	Antimony	0.00044J	mg/L	0.0030	05/19/21 15:18	B
EPA 6020B	Barium	0.015	mg/L	0.0050	05/19/21 15:18	
EPA 6020B	Boron	1.2	mg/L	0.040	05/19/21 15:18	
EPA 6020B	Lead	0.000040J	mg/L	0.0010	05/19/21 15:18	
EPA 6020B	Lithium	0.011J	mg/L	0.030	05/19/21 15:18	
EPA 6020B	Molybdenum	0.0040J	mg/L	0.010	05/19/21 15:18	
SM 2540C-2011	Total Dissolved Solids	383	mg/L	10.0	05/19/21 08:19	
EPA 300.0 Rev 2.1 1993	Chloride	3.9	mg/L	1.0	05/18/21 02:24	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	05/18/21 02:24	
EPA 300.0 Rev 2.1 1993	Sulfate	154	mg/L	3.0	05/18/21 15:56	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92538834

Sample: PZ-37D		Lab ID: 92538834001		Collected: 05/13/21 12:30		Received: 05/14/21 09:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		05/14/21 14:40		
pH	7.79	Std. Units			1		05/14/21 14:40		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	68.3	mg/L	1.0	0.13	1	05/18/21 10:07	05/18/21 16:27	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00052J	mg/L	0.0030	0.00028	1	05/18/21 13:16	05/19/21 14:44	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00078	1	05/18/21 13:16	05/19/21 14:44	7440-38-2	
Barium	0.015	mg/L	0.0050	0.00071	1	05/18/21 13:16	05/19/21 14:44	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	05/18/21 13:16	05/19/21 14:44	7440-41-7	
Boron	1.3	mg/L	0.040	0.0052	1	05/18/21 13:16	05/19/21 14:44	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	05/18/21 13:16	05/19/21 14:44	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	05/18/21 13:16	05/19/21 14:44	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	05/18/21 13:16	05/19/21 14:44	7440-48-4	
Lead	0.000049J	mg/L	0.0010	0.000036	1	05/18/21 13:16	05/19/21 14:44	7439-92-1	
Lithium	0.011J	mg/L	0.030	0.00081	1	05/18/21 13:16	05/19/21 14:44	7439-93-2	
Molybdenum	0.0042J	mg/L	0.010	0.00069	1	05/18/21 13:16	05/19/21 14:44	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	05/18/21 13:16	05/19/21 14:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	05/18/21 13:16	05/19/21 14:44	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	05/18/21 14:00	05/19/21 11:03	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	381	mg/L	10.0	10.0	1		05/19/21 08:19		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	4.0	mg/L	1.0	0.60	1		05/18/21 01:17	16887-00-6	
Fluoride	0.12	mg/L	0.10	0.050	1		05/18/21 01:17	16984-48-8	M1
Sulfate	178	mg/L	3.0	1.5	3		05/18/21 15:11	14808-79-8	M1

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92538834

Sample: FB-1		Lab ID: 92538834002		Collected: 05/13/21 11:30	Received: 05/14/21 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.13	1	05/18/21 10:07	05/18/21 16:37	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	0.0019J	mg/L	0.0030	0.00028	1	05/18/21 13:16	05/19/21 15:06	7440-36-0	B	
Arsenic	ND	mg/L	0.0050	0.00078	1	05/18/21 13:16	05/19/21 15:06	7440-38-2		
Barium	ND	mg/L	0.0050	0.00071	1	05/18/21 13:16	05/19/21 15:06	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	05/18/21 13:16	05/19/21 15:06	7440-41-7		
Boron	0.0092J	mg/L	0.040	0.0052	1	05/18/21 13:16	05/19/21 15:06	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00012	1	05/18/21 13:16	05/19/21 15:06	7440-43-9		
Chromium	ND	mg/L	0.0050	0.00055	1	05/18/21 13:16	05/19/21 15:06	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	05/18/21 13:16	05/19/21 15:06	7440-48-4		
Lead	ND	mg/L	0.0010	0.000036	1	05/18/21 13:16	05/19/21 15:06	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	05/18/21 13:16	05/19/21 15:06	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	05/18/21 13:16	05/19/21 15:06	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0016	1	05/18/21 13:16	05/19/21 15:06	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	05/18/21 13:16	05/19/21 15:06	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	05/18/21 14:00	05/19/21 11:12	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		05/19/21 08:19			
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		05/18/21 01:57	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		05/18/21 01:57	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		05/18/21 01:57	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92538834

Sample: EB-1		Lab ID: 92538834003		Collected: 05/13/21 18:30		Received: 05/14/21 09:30		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.13	1	05/18/21 10:07	05/18/21 16:41	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	0.00067J	mg/L	0.0030	0.00028	1	05/18/21 13:16	05/19/21 15:12	7440-36-0	B	
Arsenic	ND	mg/L	0.0050	0.00078	1	05/18/21 13:16	05/19/21 15:12	7440-38-2		
Barium	ND	mg/L	0.0050	0.00071	1	05/18/21 13:16	05/19/21 15:12	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	05/18/21 13:16	05/19/21 15:12	7440-41-7		
Boron	0.0052J	mg/L	0.040	0.0052	1	05/18/21 13:16	05/19/21 15:12	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00012	1	05/18/21 13:16	05/19/21 15:12	7440-43-9		
Chromium	ND	mg/L	0.0050	0.00055	1	05/18/21 13:16	05/19/21 15:12	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	05/18/21 13:16	05/19/21 15:12	7440-48-4		
Lead	ND	mg/L	0.0010	0.000036	1	05/18/21 13:16	05/19/21 15:12	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	05/18/21 13:16	05/19/21 15:12	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	05/18/21 13:16	05/19/21 15:12	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0016	1	05/18/21 13:16	05/19/21 15:12	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	05/18/21 13:16	05/19/21 15:12	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	05/18/21 14:00	05/19/21 11:15	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		05/19/21 08:19			
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		05/18/21 02:11	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		05/18/21 02:11	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		05/18/21 02:11	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92538834

Sample: DUP-1		Lab ID: 92538834004		Collected: 05/13/21 00:00		Received: 05/14/21 09:30		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	71.6	mg/L	1.0	0.13	1	05/18/21 10:07	05/18/21 17:24	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	0.00044J	mg/L	0.0030	0.00028	1	05/18/21 13:16	05/19/21 15:18	7440-36-0	B	
Arsenic	ND	mg/L	0.0050	0.00078	1	05/18/21 13:16	05/19/21 15:18	7440-38-2		
Barium	0.015	mg/L	0.0050	0.00071	1	05/18/21 13:16	05/19/21 15:18	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	05/18/21 13:16	05/19/21 15:18	7440-41-7		
Boron	1.2	mg/L	0.040	0.0052	1	05/18/21 13:16	05/19/21 15:18	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00012	1	05/18/21 13:16	05/19/21 15:18	7440-43-9		
Chromium	ND	mg/L	0.0050	0.00055	1	05/18/21 13:16	05/19/21 15:18	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	05/18/21 13:16	05/19/21 15:18	7440-48-4		
Lead	0.000040J	mg/L	0.0010	0.000036	1	05/18/21 13:16	05/19/21 15:18	7439-92-1		
Lithium	0.011J	mg/L	0.030	0.00081	1	05/18/21 13:16	05/19/21 15:18	7439-93-2		
Molybdenum	0.0040J	mg/L	0.010	0.00069	1	05/18/21 13:16	05/19/21 15:18	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0016	1	05/18/21 13:16	05/19/21 15:18	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	05/18/21 13:16	05/19/21 15:18	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	05/18/21 14:00	05/19/21 11:24	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	383	mg/L	10.0	10.0	1		05/19/21 08:19			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	3.9	mg/L	1.0	0.60	1		05/18/21 02:24	16887-00-6		
Fluoride	0.12	mg/L	0.10	0.050	1		05/18/21 02:24	16984-48-8		
Sulfate	154	mg/L	3.0	1.5	3		05/18/21 15:56	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92538834

QC Batch: 621064 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92538834001, 92538834002, 92538834003, 92538834004

METHOD BLANK: 3267639 Matrix: Water
Associated Lab Samples: 92538834001, 92538834002, 92538834003, 92538834004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.13	05/18/21 15:25	

LABORATORY CONTROL SAMPLE: 3267640

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3267641 3267642

Parameter	Units	3267641		3267642		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92538933001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Calcium	mg/L	33100 ug/L	1	1	34.8	33.8	167	75	75-125	3	20 M1

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92538834

QC Batch: 621135 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92538834001, 92538834002, 92538834003, 92538834004

METHOD BLANK: 3268034 Matrix: Water
Associated Lab Samples: 92538834001, 92538834002, 92538834003, 92538834004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00070J	0.0030	0.00028	05/19/21 14:26	
Arsenic	mg/L	ND	0.0050	0.00078	05/19/21 14:26	
Barium	mg/L	ND	0.0050	0.00071	05/19/21 14:26	
Beryllium	mg/L	ND	0.00050	0.000046	05/19/21 14:26	
Boron	mg/L	ND	0.040	0.0052	05/19/21 14:26	
Cadmium	mg/L	ND	0.00050	0.00012	05/19/21 14:26	
Chromium	mg/L	ND	0.0050	0.00055	05/19/21 14:26	
Cobalt	mg/L	ND	0.0050	0.00038	05/19/21 14:26	
Lead	mg/L	ND	0.0010	0.000036	05/19/21 14:26	
Lithium	mg/L	ND	0.030	0.00081	05/19/21 14:26	
Molybdenum	mg/L	ND	0.010	0.00069	05/19/21 14:26	
Selenium	mg/L	ND	0.0050	0.0016	05/19/21 14:26	
Thallium	mg/L	ND	0.0010	0.00014	05/19/21 14:26	

LABORATORY CONTROL SAMPLE: 3268035

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	105	80-120	
Arsenic	mg/L	0.1	0.099	99	80-120	
Barium	mg/L	0.1	0.099	99	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Boron	mg/L	1	1.0	104	80-120	
Cadmium	mg/L	0.1	0.10	102	80-120	
Chromium	mg/L	0.1	0.097	97	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3268036 3268037

Parameter	Units	92538834001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Antimony	mg/L	0.00052J	0.1	0.1	0.10	0.11	103	105	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92538834

Parameter	Units	3268036		3268037		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92538834001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	0.015	0.1	0.1	0.11	0.11	95	98	75-125	3	20		
Beryllium	mg/L	ND	0.1	0.1	0.091	0.091	91	91	75-125	0	20		
Boron	mg/L	1.3	1	1	2.5	2.4	118	114	75-125	2	20		
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20		
Chromium	mg/L	ND	0.1	0.1	0.098	0.10	97	100	75-125	3	20		
Cobalt	mg/L	ND	0.1	0.1	0.098	0.10	98	102	75-125	4	20		
Lead	mg/L	0.000049J	0.1	0.1	0.096	0.097	96	97	75-125	1	20		
Lithium	mg/L	0.011J	0.1	0.1	0.10	0.10	91	92	75-125	1	20		
Molybdenum	mg/L	0.0042J	0.1	0.1	0.10	0.11	99	104	75-125	5	20		
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	101	101	75-125	0	20		
Thallium	mg/L	ND	0.1	0.1	0.096	0.097	96	97	75-125	1	20		

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92538834

QC Batch: 621085 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92538834001, 92538834002, 92538834003, 92538834004

METHOD BLANK: 3267704 Matrix: Water
Associated Lab Samples: 92538834001, 92538834002, 92538834003, 92538834004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	05/19/21 10:53	

LABORATORY CONTROL SAMPLE: 3267705

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3267706 3267707

Parameter	Units	3267706		3267707		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92538834001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Mercury	mg/L	ND	0.0025	0.0025	0.0023	0.0024	93	96	75-125	3	20

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92538834

QC Batch: 621303 Analysis Method: SM 2540C-2011
QC Batch Method: SM 2540C-2011 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92538834001, 92538834002, 92538834003, 92538834004

METHOD BLANK: 3269201 Matrix: Water
Associated Lab Samples: 92538834001, 92538834002, 92538834003, 92538834004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	05/19/21 08:18	

LABORATORY CONTROL SAMPLE: 3269202

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	397	99	90-111	

SAMPLE DUPLICATE: 3269203

Parameter	Units	92538698003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	56.0	71.0	24	10	D6

SAMPLE DUPLICATE: 3269204

Parameter	Units	92539203003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	76.0	96.0	23	10	D6

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92538834

QC Batch: 620938 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: 92538834001, 92538834002, 92538834003, 92538834004

METHOD BLANK: 3267155 Matrix: Water
Associated Lab Samples: 92538834001, 92538834002, 92538834003, 92538834004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	05/17/21 21:42	
Fluoride	mg/L	ND	0.10	0.050	05/17/21 21:42	
Sulfate	mg/L	ND	1.0	0.50	05/17/21 21:42	

LABORATORY CONTROL SAMPLE: 3267156

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.6	99	90-110	
Fluoride	mg/L	2.5	2.4	98	90-110	
Sulfate	mg/L	50	48.3	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3267157 3267158

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92538495031 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	ND	50	50	50.6	50.6	101	101	90-110	0	10		
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	99	98	90-110	0	10		
Sulfate	mg/L	ND	50	50	49.2	49.1	98	98	90-110	0	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3267159 3267160

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92538834001 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	4.0	50	50	54.1	55.3	100	103	90-110	2	10		
Fluoride	mg/L	0.12	2.5	2.5	2.3	2.4	89	90	90-110	2	10	M1	
Sulfate	mg/L	178	50	50	206	199	56	42	90-110	4	10	M1	

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: YATES
Pace Project No.: 92538834

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.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES
Pace Project No.: 92538834

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92538834001	PZ-37D				
92538834001	PZ-37D	EPA 3010A	621064	EPA 6010D	621124
92538834002	FB-1	EPA 3010A	621064	EPA 6010D	621124
92538834003	EB-1	EPA 3010A	621064	EPA 6010D	621124
92538834004	DUP-1	EPA 3010A	621064	EPA 6010D	621124
92538834001	PZ-37D	EPA 3005A	621135	EPA 6020B	621237
92538834002	FB-1	EPA 3005A	621135	EPA 6020B	621237
92538834003	EB-1	EPA 3005A	621135	EPA 6020B	621237
92538834004	DUP-1	EPA 3005A	621135	EPA 6020B	621237
92538834001	PZ-37D	EPA 7470A	621085	EPA 7470A	621197
92538834002	FB-1	EPA 7470A	621085	EPA 7470A	621197
92538834003	EB-1	EPA 7470A	621085	EPA 7470A	621197
92538834004	DUP-1	EPA 7470A	621085	EPA 7470A	621197
92538834001	PZ-37D	SM 2540C-2011	621303		
92538834002	FB-1	SM 2540C-2011	621303		
92538834003	EB-1	SM 2540C-2011	621303		
92538834004	DUP-1	SM 2540C-2011	621303		
92538834001	PZ-37D	EPA 300.0 Rev 2.1 1993	620938		
92538834002	FB-1	EPA 300.0 Rev 2.1 1993	620938		
92538834003	EB-1	EPA 300.0 Rev 2.1 1993	620938		
92538834004	DUP-1	EPA 300.0 Rev 2.1 1993	620938		

REPORT OF LABORATORY ANALYSIS

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

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: Georgia power

Project #: **WO# : 92538834**



Courier: Commercial Fed Ex UPS USPS Client Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: MT 5/14/21

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 230 Type of Ice: Wet Blue None

Cooler Temp: 212 Correction Factor: Add/Subtract (°C) +0.2

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 210

USA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

	Comments/Discrepancy:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8.
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <u>da</u>	
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



Document Name:
Sample Condition Upon Receipt(SCUR)

Document Revised: October 28, 2020
Page 2 of 2

Document No.:
F-CAR-CS-033-Rev.07

Issuing Authority:
Pace Carolinas Quality Office

Project #

WO# : 92538834

PM: KLH1

Due Date: 05/28/21

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

Bottle #	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 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)	BP3A-250 mL Plastic (NH2)2SO4 (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)
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Client Information: **Section B** Required Project Information: **Section C** Invoice Information: **Section D** Regulatory Agency

Client: Georgia Power
 Report To: Becky Stever
 Address: 1070 Bridge Mill Ave
 Copy To:
 N. GA 30114
 Purchase Order #:
 Project Name: Yates
 Project #:
 State / Location: GA
 Invoice Attention:
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: Kevin.herring@paceanal.com
 Pace Profile #: 10840
 Requested Analysis Filtered (Y/N)

SAMPLE ID (A-Z, 0-9 / .)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyses Test	Y/N	Residual Chlorine (Y/N)	
			START DATE	START TIME			END DATE	END TIME	Unpreserved	H2SO4	HNO3	HCl	NaOH				Na2S2O3
PZ-37D (051321)			5/13/13	12:30													
FB-01 (051321)			5/13	11:30													
FB-01 (051321)			5/13	18:30													
DUR-01 (051321)			5/13	-													

ADDITIONAL COMMENTS	REACQUIRED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Becky Stever/Pace	5/14/13	08:30	Will Moore	5/17/13	09:30	22 Y N Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Becky Stever

SIGNATURE of SAMPLER:

DATE SIGNED: 5/14/13

TEMP In C

Received on Ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)

June 29, 2021

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

RE: Project: YATES RADS
Pace Project No.: 92538831

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory on May 14, 2021. 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,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Samantha Thomas
Maribel Vital



REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: YATES RADS
Pace Project No.: 92538831

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 #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: YATES RADS

Pace Project No.: 92538831

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92538831001	PZ-37D	Water	05/13/21 12:30	05/14/21 09:30
92538831002	FB-1	Water	05/13/21 11:30	05/14/21 09:30
92538831003	EB-1	Water	05/13/21 18:30	05/14/21 09:30
92538831004	DUP-1	Water	05/13/21 00:00	05/14/21 09:30

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: YATES RADS

Pace Project No.: 92538831

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92538831001	PZ-37D	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92538831002	FB-1	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92538831003	EB-1	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92538831004	DUP-1	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES RADS
Pace Project No.: 92538831

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92538831001	PZ-37D					
EPA 9315	Radium-226	2.70 ± 0.530 (0.161) C:83% T:NA	pCi/L		06/25/21 10:34	
EPA 9320	Radium-228	2.66 ± 0.740 (0.762) C:64% T:78%	pCi/L		06/07/21 11:16	
Total Radium Calculation	Total Radium	5.36 ± 1.27 (0.923)	pCi/L		06/28/21 17:08	
92538831002	FB-1					
EPA 9315	Radium-226	0.0225 ± 0.220 (0.600) C:88% T:NA	pCi/L		06/04/21 08:46	
EPA 9320	Radium-228	0.487 ± 0.440 (0.891) C:60% T:79%	pCi/L		06/07/21 11:16	
Total Radium Calculation	Total Radium	0.510 ± 0.660 (1.49)	pCi/L		06/21/21 20:12	
92538831003	EB-1					
EPA 9315	Radium-226	-0.0213 ± 0.200 (0.591) C:92% T:NA	pCi/L		06/04/21 08:46	
EPA 9320	Radium-228	0.247 ± 0.316 (0.669) C:68% T:85%	pCi/L		06/07/21 11:16	
Total Radium Calculation	Total Radium	0.247 ± 0.516 (1.26)	pCi/L		06/21/21 20:12	
92538831004	DUP-1					
EPA 9315	Radium-226	2.47 ± 0.489 (0.154) C:91% T:NA	pCi/L		06/25/21 10:34	
EPA 9320	Radium-228	1.70 ± 0.569 (0.728) C:63% T:78%	pCi/L		06/07/21 11:16	
Total Radium Calculation	Total Radium	4.17 ± 1.06 (0.882)	pCi/L		06/28/21 17:08	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92538831

Sample: PZ-37D **Lab ID: 92538831001** Collected: 05/13/21 12:30 Received: 05/14/21 09:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	2.70 ± 0.530 (0.161) C:83% T:NA	pCi/L	06/25/21 10:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	2.66 ± 0.740 (0.762) C:64% T:78%	pCi/L	06/07/21 11:16	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	5.36 ± 1.27 (0.923)	pCi/L	06/28/21 17:08	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92538831

Sample: FB-1 **Lab ID: 92538831002** Collected: 05/13/21 11:30 Received: 05/14/21 09:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0225 ± 0.220 (0.600) C:88% T:NA	pCi/L	06/04/21 08:46	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.487 ± 0.440 (0.891) C:60% T:79%	pCi/L	06/07/21 11:16	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.510 ± 0.660 (1.49)	pCi/L	06/21/21 20:12	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92538831

Sample: EB-1 **Lab ID: 92538831003** Collected: 05/13/21 18:30 Received: 05/14/21 09:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	-0.0213 ± 0.200 (0.591) C:92% T:NA	pCi/L	06/04/21 08:46	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.247 ± 0.316 (0.669) C:68% T:85%	pCi/L	06/07/21 11:16	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.247 ± 0.516 (1.26)	pCi/L	06/21/21 20:12	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92538831

Sample: DUP-1 **Lab ID: 92538831004** Collected: 05/13/21 00:00 Received: 05/14/21 09:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	2.47 ± 0.489 (0.154) C:91% T:NA	pCi/L	06/25/21 10:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.70 ± 0.569 (0.728) C:63% T:78%	pCi/L	06/07/21 11:16	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	4.17 ± 1.06 (0.882)	pCi/L	06/28/21 17:08	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92538831

QC Batch: 449716

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92538831001, 92538831002, 92538831003, 92538831004

METHOD BLANK: 2170082

Matrix: Water

Associated Lab Samples: 92538831001, 92538831002, 92538831003, 92538831004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.470 ± 0.364 (0.712) C:62% T:85%	pCi/L	06/07/21 11:17	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92538831

QC Batch: 450480

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92538831001, 92538831002, 92538831003, 92538831004

METHOD BLANK: 2173868

Matrix: Water

Associated Lab Samples: 92538831001, 92538831002, 92538831003, 92538831004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.274 ± 0.327 (0.673) C:95% T:NA	pCi/L	06/04/21 08:45	

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: YATES RADS

Pace Project No.: 92538831

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.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES RADS
Pace Project No.: 92538831

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92538831001	PZ-37D	EPA 9315	450480		
92538831002	FB-1	EPA 9315	450480		
92538831003	EB-1	EPA 9315	450480		
92538831004	DUP-1	EPA 9315	450480		
92538831001	PZ-37D	EPA 9320	449716		
92538831002	FB-1	EPA 9320	449716		
92538831003	EB-1	EPA 9320	449716		
92538831004	DUP-1	EPA 9320	449716		
92538831001	PZ-37D	Total Radium Calculation	454327		
92538831002	FB-1	Total Radium Calculation	453438		
92538831003	EB-1	Total Radium Calculation	453438		
92538831004	DUP-1	Total Radium Calculation	454327		

REPORT OF LABORATORY ANALYSIS

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

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Georgia power

Project

WO# : 92538831



Courier: Commercial Fed Ex UPS USPS Other: _____ Client

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *MT 5/14/21*

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer:

IR Gun ID: 230 Type of Ice: Wet Blue None

Cooler Temp:

212 Correction Factor: Add/Subtract (°C) ±0.2

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 210

USA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

Comments/Discrepancy:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <i>de</i>		
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



Document Name:
Sample Condition Upon Receipt(SCUR)
 Document No.:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020
 Page 2 of 2
 Issuing Authority:
 Pace Carolinas Quality Office

Project #

WO# : 92538831

PM: KLH1

Due Date: 06/07/21

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

Sample #	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 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)	BP3A-250 mL Plastic (NH2)2SO4 (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)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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

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

in A **Section B** **Section C**

Required Project Information:
 Report To: Becky Steever
 Copy To:
 Purchase Order #:
 Project Name: Yates
 Project #: 10840
 Invoice Information:
 Attention:
 Company Name:
 Address:
 POC Name:
 POC Project Manager: Kevin Henning@paceanalytical.com
 POC Profile #: 10840
 Regulatory Agency:
 State / Location: GA

Client Information:
 Client: Georgia Power
 Address: 1070 Bridge Hill Ave
 City: Atlanta, GA 30114
 Phone: (770) 364-6526
 Fax:
 Email: kevin.henning@paceanalytical.com
 Project Due Date:
 Requested Analysis Filtered (Y/N):
 Residual Chlorine (Y/N):

SAMPLE ID One Character per box. (A-Z, 0-9 /, -)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)
			START	END					Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				
PZ-3TD (051321)					5/13/20														
FB-01 (051321)					5/13/20	1130													
FB-01 (051321)					5/13/20	1830													
DUR-01 (051321)					5/13/20														

ADDITIONAL COMMENTS	REQUISITED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Becky Steever/Pace	5/14/2020	0830	Will Mac	5/14/20	0930	22 Y N Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Becky Steever
 SIGNATURE of SAMPLER: *Becky Steever*
 DATE Signed: 5/14/21

TEMP in C
 Received on Ice (Y/N)
 Custody Sealed Cooler (Y/N)
 Samples Intact (Y/N)



Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: LAL
Date: 6/4/2021
Worklist: 60915
Matrix: DW

Method Blank Assessment	
MB Sample ID	2173868
MB Concentration:	0.274
MB Counting Uncertainty:	0.325
MB MDC:	0.673
MB Numerical Performance Indicator:	1.66
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCSD (Y or N)?	Y
Count Date:	6/4/2021	LCSD60915	LCSD60915
Spike I.D.:	19-033		
Decay Corrected Spike Concentration (pCi/ml):	24.037		
Volume Used (ml):	0.10		
Aliquot Volume (L, g, F):	0.507		
Target Conc. (pCi/L, g, F):	4.738		
Uncertainty (Calculated):	0.057		
Result (pCi/L, g, F):	4.657		
LCSD/CSD Counting Uncertainty (pCi/L, g, F):	0.897		
Numerical Performance Indicator:	-0.18		
Percent Recovery:	98.30%		
Status vs Numerical Indicator:	Pass		
Status vs Recovery:	Pass		
Upper % Recovery Limit:	125%		
Lower % Recovery Limit:	75%		

Duplicate Sample Assessment		LCSD (Y or N)?	Y
Sample I.D.:	LCSD60915		
Duplicate Sample I.D.:	LCSD60915		
Sample Result (pCi/L, g, F):	4.657		
Sample Result Counting Uncertainty (pCi/L, g, F):	0.897		
Sample Duplicate Result (pCi/L, g, F):	4.978		
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	0.930		
Are sample and/or duplicate results below RL?	NO		
Duplicate Numerical Performance Indicator:	-0.487		
(Based on the LCSD/CSD Percent Recoveries) Duplicate RPD:	5.48%		
Duplicate Status vs Numerical Indicator:	N/A		
Duplicate Status vs RPD:	Pass		
% RPD Limit:	25%		

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:			
Sample I.D.:			
Sample MS I.D.:			
Sample MSD I.D.:			
Spike I.D.:			
MS/MSD Decay Corrected Spike Concentration (pCi/ml):			
Spike Volume Used in MS (ml):			
Spike Volume Used in MSD (ml):			
MS Aliquot (L, g, F):			
MS Target Conc (pCi/L, g, F):			
MSD Aliquot (L, g, F):			
MSD Target Conc. (pCi/L, g, F):			
MS Spike Uncertainty (calculated):			
MSD Spike Uncertainty (calculated):			
Sample Result:			
Sample Matrix Spike Result:			
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):			
Sample Matrix Spike Duplicate Result:			
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):			
MS Numerical Performance Indicator:			
MSD Numerical Performance Indicator:			
MS Percent Recovery:			
MSD Percent Recovery:			
MS Status vs Numerical Indicator:			
MSD Status vs Numerical Indicator:			
MS Status vs Recovery:			
MSD Status vs Recovery:			
MS/MSD Upper % Recovery Limit:			
MS/MSD Lower % Recovery Limit:			

Matrix Spike/Matrix Spike Duplicate Sample Assessment		MS/MSD 1	MS/MSD 2
Sample I.D.:			
Sample MS I.D.:			
Sample MSD I.D.:			
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):			
Sample Matrix Spike Duplicate Result:			
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):			
Duplicate Numerical Performance Indicator:			
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:			
MS/MSD Duplicate Status vs Numerical Indicator:			
MS/MSD Duplicate Status vs RPD:			
% RPD Limit:			

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

Comments:

Handwritten signature

6/18/21

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.



Test: Ra-228
Analyst: JC2
Date: 6/3/2021
Worklist: 60773
Matrix: WT

Method Blank Assessment

MB Sample ID	2170082
MB concentration:	0.470
M/B 2 Sigma CSU:	0.364
MB MDC:	0.712
MB Numerical Performance Indicator:	2.53
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment

	LCSD (Y or N)?	Y
Count Date:	6/7/2021	6/7/2021
Spike I.D.:	21-003	21-003
Decay Corrected Spike Concentration (pCi/ml):	37.407	37.407
Volume Used (ml):	0.10	0.10
Aliquot Volume (L, g, F):	0.816	0.852
Target Conc. (pCi/L, g, F):	4.584	4.392
Uncertainty (Calculated):	0.225	0.215
Result (pCi/L, g, F):	4.404	4.759
LCSLCSD 2 Sigma CSU (pCi/L, g, F):	1.013	1.051
Numerical Performance Indicator:	-0.34	0.67
Percent Recovery:	96.08%	108.37%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Duplicate Sample Assessment

Sample I.D.:	Duplicate Sample I.D.:	Enter Duplicate sample IDs if other than LCSLCSD in the space below.
LCSD60773	LCSD60773	
4.404	4.404	
1.013	1.013	
4.759	4.759	
1.051	1.051	
NO	NO	
-0.477	-0.477	
12.02%	12.02%	
Pass	Pass	
36%	36%	

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.:		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/ml.):		
Spike Volume Used in MS (ml.):		
MS Aliquot (L, g, F):		
MS Target Conc. (pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MSD Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.:	Sample MS I.D.:	Sample MSD I.D.:
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:		
MS/MSD Duplicate Status vs Numerical Indicator:		
MS/MSD Duplicate Status vs RPD:		
% RPD Limit:		

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

Comments:

Handwritten signature

Handwritten initials: OM 6/18/21

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 B

Field Sampling Forms (February and March 2021)

February 2021 Scan Event

February 2021 Daily Calibration Log

Project Plant Yates

Field Staff: Becky Steever/Katie Pupkiewicz/Peter Argyrakis

Instrument Calibration

Date: 2/08/21 Time: 14:30

Parameter	Units	Standard	SmarTROLL SN 513261	SmarTROLL SN 518550	SmarTROLL SN 509072
DO	% saturation	100	100	100	NA
Conductivity	us/cm	8000	8000	8000	NA
pH	S.U.	4.00	4.00	4.00	NA
pH	S.U.	7.00	7.00	7.00	NA
pH	S.U.	10.00	10.00	10.00	NA
ORP	mV	232.0	232.0	232.0	NA

Turbidity Standard	Units	LaMotte SN 1164-2911	LaMotte SN 6012-4015	LaMotte SN 6012-4015
0.0	NTU	0.00	0.00	NA
10.0	NTU	10.00	10.00	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

NA = not used that day

February 2021 Daily Calibration Log

Project Plant Yates

Field Staff: Becky Steever/Katie Pupkiewicz/Peter Argyrakis

Instrument Calibration

Date: 2/09/21 Time: 7:00

Parameter	Units	Standard	SmarTROLL SN 513261	SmarTROLL SN 518550	SmarTROLL SN 509072
DO	% saturation	100	100	100	100
Conductivity	us/cm	8000	8000	8000	8000
pH	S.U.	4.00	4.00	4.00	4.00
pH	S.U.	7.00	7.00	7.00	7.00
pH	S.U.	10.00	10.00	10.00	10.00
ORP	mV	232.0	232.0	232.0	232.0

Turbidity Standard	Units	LaMotte SN 1164-2911	LaMotte SN 6012-4015	LaMotte SN 6012-4015
0.0	NTU	0.00	0.00	NA
10.0	NTU	10.00	10.00	NA

February 2021 Daily Calibration Log

Project Plant Yates

Field Staff: Becky Steever/Katie Pupkiewicz/Peter Argyrakis

Instrument Calibration

Date: 2/09/21 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 513261	SmarTROLL SN 518550	SmarTROLL SN 509072
DO	% saturation	100	100	100	100
Conductivity	us/cm	8000	8000	8000	8000
pH	S.U.	4.00	4.00	4.00	4.00
pH	S.U.	7.00	7.00	7.00	7.00
pH	S.U.	10.00	10.00	10.00	10.00
ORP	mV	232.0	232.0	232.0	232.0

Turbidity Standard	Units	LaMotte SN 1164-2911	LaMotte SN 6012-4015	LaMotte SN 6012-4015
0.0	NTU	0.00	0.00	NA
10.0	NTU	10.00	10.00	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

NA = not used that day

February 2021 Daily Calibration Log

Project Plant Yates

Field Staff: Becky Steever/Katie Pupkiewicz/Peter Argyrakis

Instrument Calibration

Date: 2/10/21 Time: 7:00

Parameter	Units	Standard	SmarTROLL SN 513261	SmarTROLL SN 518550	SmarTROLL SN 509072
DO	% saturation	100	100	100	100
Conductivity	us/cm	8000	8000	8000	8000
pH	S.U.	4.00	4.00	4.00	4.00
pH	S.U.	7.00	6.98	6.98	6.98
pH	S.U.	10.00	10.00	10.00	10.00
ORP	mV	229	232.0	232.0	232.0

Turbidity Standard	Units	LaMotte SN 1164-2911	LaMotte SN 6012-4015	Geotech SN 18081847
0.0	NTU	0.00	0.00	0.00
10.0	NTU	10.00	10.00	10.00

Date: 2/10/21 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 513261	SmarTROLL SN 518550	SmarTROLL SN 509072
DO	% saturation	100	100	100	100
Conductivity	us/cm	8000	8000	8000	8000
pH	S.U.	4.00	4.00	4.00	4.00
pH	S.U.	7.00	6.98	6.98	6.98
pH	S.U.	10.00	10.00	10.00	10.00
ORP	mV	228	232.0	232.0	232.0

Turbidity Standard	Units	LaMotte SN 1164-2911	LaMotte SN 6012-4015	Geotech SN 18081847
0.0	NTU	NA	0.00	NA
10.0	NTU	NA	10.00	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

NA = not used that day

February 2021 Daily Calibration Log

Project Plant Yates

Field Staff: Becky Steever/Katie Pupkiewicz/Peter Argyrakis

Instrument Calibration

Date: 2/11/21 Time: 7:00

Parameter	Units	Standard	SmarTROLL SN 513261	SmarTROLL SN 518550	SmarTROLL SN 509072
DO	% saturation	100	100	100	100
Conductivity	us/cm	8000	8000	8000	8000
pH	S.U.	4.00	4.00	4.00	4.00
pH	S.U.	7.00	6.98	6.98	6.98
pH	S.U.	10.00	10.00	10.00	10.00
ORP	mV	229	232.0	232.0	232.0

Turbidity Standard	Units	LaMotte SN 1164-2911	LaMotte SN 6012-4015	Geotech SN 18081847
0.0	NTU	0.00	0.00	0.00
10.0	NTU	10.00	10.00	10.00

Date: 2/11/21 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 513261	SmarTROLL SN 518550	SmarTROLL SN 509072
DO	% saturation	100	100	100	100
Conductivity	us/cm	8000	8000	8000	8000
pH	S.U.	4.00	4.00	4.00	4.00
pH	S.U.	7.00	6.98	6.98	6.98
pH	S.U.	10.00	10.00	10.00	10.00
ORP	mV	228	232.0	232.0	232.0

Turbidity Standard	Units	LaMotte SN 1164-2911	LaMotte SN 6012-4015	Geotech SN 18081847
0.0	NTU	NA	0.00	NA
10.0	NTU	NA	10.00	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

NA = not used that day

Client:		Georgia Power			
Project Location:		AMA AP-3, A, B and B'			
Date:		2/8/2021			
Sampler:		Peter Argyakis			
Equipment:		water probe			
Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
PZ-06D	2/8/2021	11:19:00	21.72	134.02	--
YGWA-6S	2/8/2021	11:21:00	17.54	39.87	--
YGWA-6I	2/8/2021	11:22:00	18.90	69.03	--
YGWA-17S	2/8/2021	11:25:00	11.85	39.85	--
YGWA-18S	2/8/2021	11:34:00	19.55	39.97	--
YGWA-18I	2/8/2021	11:38:00	22.90	79.97	--
PZ-48	2/8/2021	11:50:00	19.74	58.73	--
YGWC-49	2/8/2021	11:55:00	31.72	78.53	--
PZ-35	2/8/2021	12:01:00	11.25	50.01	--
YAMW-1	2/8/2021	12:02:00	11.07	69.93	--
YGWC-24SA	2/8/2021	12:35:00	28.00	57.00	--
PZ-24IA	2/8/2021	12:47:00	28.25	89.85	--
YGWA-20S	2/8/2021	13:22:00	11.19	29.52	--
YGWA-21I	2/8/2021	13:24:00	31.21	79.90	--
PZ-05S	2/8/2021	13:40:00	18.69	41.94	--
YGWA-5I	2/8/2021	13:43:00	18.75	58.94	--
YGWA-5D	2/8/2021	13:44:00	21.77	129.13	--
PZ-04S	2/8/2021	13:47:00	24.13	33.33	--
YGWA-4I	2/8/2021	13:49:00	22.62	48.81	--

Client:		Georgia Power			
Project Location:		AMA R6 CCR Landfill			
Date:		2/8/2021			
Sampler:		Peter Argyakis			
Equipment:		water probe			
Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
YGWC-42	2/8/2021	09:28:00	28.19	59.76	--
YAMW-3	2/8/2021	09:32:00	35.46	91.44	--
PZ-51	2/8/2021	09:40:00	7.36	36.00	--
YGWC-43	2/8/2021	09:46:00	16.36	79.66	--
YAMW-4	2/8/2021	09:55:00	31.09	96.55	--
YGWC-41	2/8/2021	09:57:00	27.44	67.32	--
YGWA-40	2/8/2021	10:02:00	22.93	48.23	--
PZ-37	2/8/2021	10:08:00	12.55	49.78	--
YGWA-39	2/8/2021	10:16:00	17.37	68.59	--
YAMW-5	2/8/2021	10:27:00	13.48	90.34	--
YGWC-38	2/8/2021	10:29:00	30.75	50.59	--
YAMW-2	2/8/2021	10:49:00	20.79	46.48	--
YGWC-36A	2/8/2021	12:05:00	9.58	51.20	--

Client:		Georgia Power			
Project Location:		AMA AP-3, A, B and B'			
Date:		2/8/2021			
Sampler:		Katie Pupkiewicz			
Equipment:		water probe			
Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
YGWC-23S	2/8/2021	10:42:00	16.95	38.91	Well casing damaged at bottom

Groundwater Sampling Form

Project Number	30053437	Well ID	PZ-37	Date	02/09/2021			
Project Location	AMA R6 CCR Landfill		Weather(°F)	Cloudy 55°F				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	39.28	Casing Diameter (in)	2	Well Casing Material	PVC	
Static Water Level (ft-bmp)	12.56	Total Depth (ft-bmp)	49.78	Water Column(ft)	37.22	Gallons in Well	6.05	
MP Elevation	760.78	Pump Intake (ft-bmp)	45	Purge Method	Low-Flow		Sample Method	Low-Flow
Sample Time	09:30	Well Volumes Purged	0.26	Sample ID	PZ-37(020921)		Sampled by	Katie Pupkiewicz
Purge Start	08:53	Gallons Purged	1.59	Replicate/ Code No.			Color	Clear

Purge End	09:25								
Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
08:53:22	00:00	200	12.91	6.79	1268.16	0.68	5.53	15.7	176.21
08:58:22	05:00	200	12.92	5.81	1252.83	0.09	0.87	16.4	175.01
09:03:22	10:00	200	12.91	5.64	1245.70	0.00	1.61	16.6	173.36
09:08:22	15:00	200	12.92	5.58	1252.33	94.66	4.36	16.4	172.90
09:13:22	20:00	200	12.92	5.51	1269.87	0.10	0.63	16.5	173.59
09:18:22	25:00	200	12.92	5.45	1280.76	0.17	0.76	16.6	173.42
09:23:22	30:00	200	12.92	5.42	1286.39	0.20	0.88	16.8	173.47

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

Comments: La Motteturbidity readings in five minute intervals in accordance with the VuSitu purge log
 1.16
 0.85
 1.14
 0.62
 0.73
 0.67
 0.52

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form

Project Number	30052922	Well ID	YGWA-4I	Date	02/09/2021		
Project Location	AMA AP-3, A, B and B'		Weather(°F)	52.7 degrees F and Cloudy. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	38.51	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	22.61	Total Depth (ft-bmp)	48.81	Water Column(ft)	26.2	Gallons in Well	4.26
MP Elevation	784.21	Pump Intake (ft-bmp)	45	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	09:33	Well Volumes Purged	0.35	Sample ID	YGWA-4I	Sampled by	Becky Steever
Purge Start	09:00	Gallons Purged	1.49	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)
09:00:56	00:00	125	24.82	7.92	1.21	0.00	10.79	12.4	231.36
09:05:56	05:00	125	24.83	6.17	0.07	0.31	10.24	13.0	221.85
09:10:56	10:00	125	24.84	6.44	0.14	0.05	10.45	13.0	228.38
09:15:56	15:00	125	24.85	6.55	0.25	0.07	10.39	13.1	230.12
09:20:56	20:00	125	24.86	6.13	122.92	1.15	2.87	14.5	223.37
09:25:56	25:00	125	24.9	6.15	155.73	1.25	2.28	14.8	223.99
09:30:56	30:00	125	24.91	6.13	151.54	1.37	2.38	14.8	224.27
09:35:56	35:00	125	24.93	6.10	147.32	1.27	2.55	14.8	224.72
09:40:56	40:00	125	24.93	6.09	143.34	0.97	2.70	14.9	225.06
09:45:56	45:00	125	24.93	6.06	140.86	0.87	2.85	14.9	225.33

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

Comments: LaMotte turbidity readings taken concurrently on stand alone meter at each five minute interval: 0.83, 0.26, 0.55, 1.32, 1.22, 01.31, 1.26, 1.01, & 0.98 NTU.

Well Casing Volume Conversion

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

Well Information

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: NA	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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form



Project Number	30052922	Well ID	YGWA-17S	Date	02/09/2021		
Project Location	AMA AP-3, A, B and B'		Weather(°F)	62.2 degrees F and Mostly Cloudy. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	29.65	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	11.83	Total Depth (ft-bmp)	39.85	Water Column(ft)	28.02	Gallons in Well	4.55
MP Elevation	783.05	Pump Intake (ft-bmp)	35	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	11:15	Well Volumes Purged	0.29	Sample ID	YGWA-17S	Sampled by	Becky Steever
Purge Start	10:40	Gallons Purged	1.32	Replicate/ Code No.		Color	Clear
Purge End	11:12						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:40:27	00:00	160	11.83	6.13	0.07	0.04	10.54	13.3	202.00
10:45:27	05:00	160	12.39	5.62	70.73	0.97	7.65	16.2	210.13
10:50:27	10:00	160	12.39	5.61	70.17	3.48	7.46	16.5	214.90
10:55:27	15:00	160	12.4	5.61	61.83	6.45	7.18	16.6	219.69
11:00:27	20:00	160	12.41	5.63	85.95	3.30	2.03	17.0	219.29
11:05:27	25:00	160	12.41	5.63	88.65	3.77	1.96	17.1	220.36
11:10:27	30:00	160	12.41	5.62	89.22	3.29	1.92	17.0	220.37

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

Comments: LaMotte turbidity readings taken concurrently on stand alone meter at each five minute interval. All readings below 5.0 NTU. Reading at time of sampling 0.43 NTU

Well Casing Volume Conversion

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

Well Information

Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: NA	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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form



Project Number	30052922	Well ID	YGWA-18S	Date	02/09/2021		
Project Location	AMA AP-3, A, B and B'		Weather(°F)	60.6 degrees F and Cloudy. The wind is blowing N/NW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	29.97	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	19.51	Total Depth (ft-bmp)	39.97	Water Column(ft)	20.46	Gallons in Well	3.32
MP Elevation	790.57	Pump Intake (ft-bmp)	35	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	13:25	Well Volumes Purged	0.47	Sample ID	YGWA-18S	Sampled by	Becky Steever
Purge Start	12:47	Gallons Purged	1.56	Replicate/ Code No.		Color	Clear
Purge End	13:23						

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)
12:47:58	00:00	200	19.51	6.15	0.06	9.58	8.01	22.6	186.45
12:52:58	05:00	200	20.42	5.52	59.53	15.02	4.85	18.4	191.97
12:57:58	10:00	155	20.58	5.42	62.74	12.20	2.19	18.8	204.03
13:02:58	15:00	155	20.32	5.40	62.65	6.77	1.77	19.2	208.00
13:07:58	20:00	155	20.35	5.38	63.23	5.86	1.37	18.8	213.62
13:12:58	25:00	155	20.37	5.40	64.32	7.06	1.34	19.5	216.24
13:17:58	30:00	155	20.38	5.42	64.09	4.89	1.27	20.4	217.41
13:22:58	35:00	155	20.38	5.43	64.60	5.84	1.14	21.5	219.24

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

Comments: LaMotte turbidity readings taken concurrently on stand alone meter at each five minute interval: 5.63, 6.77, 6.32, 5.56, 4.88, 7.44, 3.22, 4.76

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form

Project Number	30052922	Well ID	YGWA-18I	Date	02/09/2021		
Project Location	AMA AP-3, A, B and B'		Weather(°F)	67.6 degrees F and Cloudy. The wind is blowing S at 4.7 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	69.67	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	22.85	Total Depth (ft-bmp)	79.97	Water Column(ft)	57.12	Gallons in Well	9.28
MP Elevation	790.57	Pump Intake (ft-bmp)	75	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	14:20	Well Volumes Purged	0.13	Sample ID	YGWA-18I	Sampled by	Becky Steever
Purge Start	13:55	Gallons Purged	1.19	Replicate/ Code No.		Color	Clear
Purge End	14:18						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:55:53	00:00	200	23.01	6.75	102.78	0.51	7.78	17.6	215.66
14:00:53	05:00	200	23.04	6.27	108.41	1.50	3.56	18.7	222.91
14:05:53	10:00	200	23.08	6.15	98.29	1.76	3.67	18.5	225.72
14:10:53	15:00	200	23.09	6.13	96.33	0.44	3.76	18.4	225.49
14:15:53	20:00	200	23.11	6.12	98.09	0.95	3.81	18.2	225.10

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

Comments: LaMotte turbidity readings (time=NTU)
 1434=3.22; 1439=3.67; 1444=4.03; 1449=3.99; 1454=3.71

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form

Project Number	30052922	Well ID	YGWC-49	Date	02/09/2021		
Project Location	AMA AP-3, A, B and B'		Weather(°F)	66.7 degrees F and Mostly Cloudy. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	68.03	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	32.72	Total Depth (ft-bmp)	78.53	Water Column(ft)	45.81	Gallons in Well	7.44
MP Elevation	782.73	Pump Intake (ft-bmp)	73	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	15:15	Well Volumes Purged	0.10	Sample ID	YGWC-49	Sampled by	Becky Steever
Purge Start	14:53	Gallons Purged	0.77	Replicate/ Code No.		Color	Clear
Purge End	15:10						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:53:40	00:00	160	33.03	5.97	248.54	0.79	3.98	18.7	-15.60
14:58:40	05:00	160	33.28	5.84	243.89	0.48	2.39	18.6	52.23
15:03:40	10:00	160	33.37	5.81	246.84	0.44	2.29	18.4	84.56
15:08:40	15:00	160	33.41	5.79	249.59	0.39	2.37	18.4	103.63

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

Comments: LaMotte turbidity readings (time, NTU)
 1453, 1.20
 1458, 0.88
 1503, 0.65
 1508, 0.59

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form



Project Number	30052922	Well ID	YGWA-211	Date	02/09/2021		
Project Location	AMA AP-3, A, B and B'		Weather(°F)	67.6 degrees F and Cloudy. The wind is blowing S at 4.7 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	69.6	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	32	Total Depth (ft-bmp)	79.9	Water Column(ft)	47.9	Gallons in Well	7.78
MP Elevation	783.7	Pump Intake (ft-bmp)	75	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	15:50	Well Volumes Purged	0.08	Sample ID	YGWA-211	Sampled by	Becky Steever
Purge Start	15:48	Gallons Purged	0.66	Replicate/ Code No.		Color	Clear
Purge End	16:05						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
15:48:26	00:00	200	32	7.19	157.96	8.15	8.83	17.9	83.27
15:53:26	05:00	100	35.55	6.95	167.86	0.38	2.83	17.9	-53.34
15:58:26	10:00	100	35.43	6.92	166.84	0.92	1.21	17.9	-58.74
16:03:26	15:00	100	35.33	6.95	160.22	0.33	9.47	17.8	-53.31

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

Comments: LaMotte turbidity readings (time=NTU)
 1548=1.26, 1553=0.56, 1558=0.49, 1603=0.44

Well Casing Volume Conversion

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

Well Information

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

ft-bmp = feet below measuring point	mS/cm = milliSiemens per centimeter	mV = millivolts
in = inches	NTU = Nephelometric Turbidity Unit	°F = degrees Fahrenheit
ft = feet	mg/L = milligrams per liter	°C = degrees Celsius
mL/min = milliliters per minute	µS/cm = microSiemens per centimeters	

Groundwater Sampling Form



Project Number	30053437	Well ID	YGWA-39	Date	02/10/2021		
Project Location	AMA R6 CCR Landfill		Weather(°F)	It is Fog/Mist. The wind is blowing E/NE at 3.4 mph. 54°			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	58.09	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	17.28	Total Depth (ft-bmp)	68.59	Water Column(ft)	51.31	Gallons in Well	8.34
MP Elevation	818.19	Pump Intake (ft-bmp)	63	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	09:30	Well Volumes Purged	0.14	Sample ID	YGWA-39	Sampled by	Katie Pupkiewicz
Purge Start	08:58	Gallons Purged	1.19	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)	Temperature °C	Redox (mV)
08:58:13	00:00	160	17.57	9.40	185.55	0.20	5.25	14.9	117.79
09:03:13	05:00	160	17.59	7.91	262.94	0.05	0.92	16.2	98.60
09:08:13	10:00	160	17.65	6.12	270.94	0.05	0.23	16.7	92.74
09:13:13	15:00	160	17.66	5.88	272.85	0.10	0.16	16.8	92.57
09:18:13	20:00	160	17.66	5.82	268.67	0.12	0.12	17.0	92.67
09:23:13	25:00	160	17.67	5.80	267.91	0.16	0.13	17.2	92.12

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

Comments: LaMotte turbidity readings taken every five minutes in accordance with VuSitu purge log
 1.08
 5.79
 0.45
 0.32
 3.92
 0.73

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form

Project Number	30053437	Well ID	YGWA-40	Date	02/10/2021		
Project Location	AMA R6 CCR Landfill	Weather(°F)	Sunny and 65°F				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	37.73	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	22.92	Total Depth (ft-bmp)	48.23	Water Column(ft)	25.31	Gallons in Well	4.11
MP Elevation	815.73	Pump Intake (ft-bmp)	42	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	10:50	Well Volumes Purged	0.48	Sample ID	YGWA-39	Sampled by	Katie Pupkiewicz
Purge Start	10:10	Gallons Purged	1.98	Replicate/ Code No.	FB-01(021021)	Color	Clear
Purge End	10:46						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:10:23	00:00	200	23.52	6.13	84.39	0.27	8.94	16.9	94.30
10:15:23	05:00	200	23.71	5.46	80.20	0.17	8.29	18.3	86.49
10:20:23	10:00	200	23.7	5.37	78.37	0.17	8.36	18.5	91.07
10:25:23	15:00	200	23.68	5.30	80.89	0.22	8.25	18.2	94.18
10:30:23	20:00	200	23.68	5.22	81.73	0.25	8.18	17.9	121.25
10:35:23	25:00	200	23.68	5.16	119.86	0.23	6.14	17.5	121.99
10:40:23	30:00	200	23.68	5.13	119.19	0.21	4.11	17.5	125.84
10:45:23	35:00	200	23.67	5.19	118.93	0.23	4.10	17.6	123.45

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

Comments: LaMotte turbidity readings taken every five minutes in accordance with VuSitu purge log
 0.33
 0.04
 0.09
 0.07
 0.00
 0.24
 0.20
 0.24

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: _____

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form



Project Number 30053437 **Well ID** YGWC-41 **Date** 02/10/2021

Project Location AMA R6 CCR Landfill **Weather(°F)** 68.0 degrees F and Clear. The wind is blowing E/SE at 8.1 mph.

Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	56.82	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	27.44	Total Depth (ft-bmp)	67.32	Water Column(ft)	39.88	Gallons in Well	6.48
MP Elevation	803.92	Pump Intake (ft-bmp)	62	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	13:25	Well Volumes Purged	0.25	Sample ID	YGWC-41	Sampled by	Katie Pupkiewicz
Purge Start	12:47	Gallons Purged	1.61	Replicate/ Code No.		Color	Clear

Purge End 13:23

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)
12:47:49	00:00	160	28.25	5.25	345.00	0.38	5.72	19.2	125.48
12:52:49	05:00	160	28.39	4.97	290.67	0.38	4.52	19.7	125.75
12:57:49	10:00	160	28.36	4.96	0.06	0.19	7.80	21.3	131.36
13:02:49	15:00	160	28.39	4.92	250.64	0.42	4.57	20.1	145.89
13:07:49	20:00	160	28.39	4.95	256.65	0.44	4.51	20.7	144.14
13:12:49	25:00	160	28.39	4.96	376.58	0.55	4.61	20.3	159.42
13:17:49	30:00	160	28.39	4.92	382.81	1.01	4.71	19.8	155.83
13:22:49	35:00	160	28.39	4.98	384.33	2.56	4.85	20.5	159.05

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

Comments: LaMotte turbidity reading every five minutes in accordance with VuSitu purge log
 0.54
 0.68
 0.59
 0.20
 0.20
 0.09
 0.45
 0.36

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: _____

ft-bmp = feet below measuring point mS/cm = milliSiemens per centimeter mV = millivolts
 in = inches NTU = Nephelometric Turbidity Unit °F = degrees Fahrenheit
 ft = feet mg/L = milligrams per liter °C = degrees Celsius
 mL/min = milliliters per minute µS/cm = microSiemens per centimeters

Groundwater Sampling Form



Project Number	30053437	Well ID	YGWC-42	Date	02/10/2021		
Project Location	AMA R6 CCR Landfill		Weather(°F)	69.8 degrees F and Cloudy. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	49.36	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	28.11	Total Depth (ft-bmp)	59.76	Water Column(ft)	31.65	Gallons in Well	5.14
MP Elevation	797.86	Pump Intake (ft-bmp)	55	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	14:30	Well Volumes Purged	0.16	Sample ID	YGWC-42	Sampled by	Katie Pupkiewicz
Purge Start	14:10	Gallons Purged	0.82	Replicate/ Code No.		Color	Clear
Purge End	14:26						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:10:02	00:00	120	29.11	5.55	1333.11	2.12	5.11	18.6	157.84
14:15:02	05:00	100	29.95	5.63	1417.90	0.88	1.59	19.1	138.88
14:20:02	10:00	100	30.05	5.62	1413.86	2.37	1.44	19.9	140.09
14:25:02	15:00	100	30.02	5.65	1411.69	3.80	1.43	19.6	142.24
14:30:02	20:00	100	30.02	5.86	0.24	0.28	8.30	22.4	144.37
14:34:49	24:47	100	30.02	5.88	0.06	0.40	8.37	23.0	154.86

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

Comments: LaMotte turbidity readings every five minutes in accordance with VuSitu purge log
 0.50
 1.57
 1.66
 1.31

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form



Project Number 30053437 **Well ID** PZ-35 **Date** 02/10/2021

Project Location AMA AP-3, A, B and B' **Weather(°F)** 70.2 degrees F and Cloudy. The wind is blowing undefined at 0.0 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) 11.74 **Total Depth (ft-bmp)** 50.01 **Water Column(ft)** 38.27 **Gallons in Well** 6.22

MP Elevation 743.81 **Pump Intake (ft-bmp)** 45 **Purge Method** Low-Flow **Sample Method** Low-Flow

Sample Time 16:15 **Well Volumes Purged** 0.14 **Sample ID** PZ-35 **Sampled by** Katie Pupkiewicz

Purge Start 15:57 **Gallons Purged** 0.85 **Replicate/ Code No.** **Color** Clear

Purge End 16:13

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)
15:57:50	00:00	180	11.93	5.83	110.48	1.95	6.68	19.7	139.34
16:02:50	05:00	180	11.93	5.62	107.72	3.18	5.48	19.7	135.59
16:07:50	10:00	180	11.93	5.58	107.24	0.51	5.21	19.5	135.37
16:12:50	15:00	180	11.94	5.53	105.49	1.00	4.92	19.2	138.00

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

Comments: LaMotte turbidity readings every five minutes in accordance with VuSitu purge log
 1.60
 1.11
 1.06
 1.05

Well Casing Volume Conversion

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

Well Information

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

ft-bmp = feet below measuring point mS/cm = milliSiemens per centimeter mV = millivolts
 in = inches NTU = Nephelometric Turbidity Unit °F = degrees Fahrenheit
 ft = feet mg/L = milligrams per liter °C = degrees Celsius
 mL/min = milliliters per minute µS/cm = microSiemens per centimeters

Groundwater Sampling Form



Project Number	30052922	Well ID	YGWA-5D	Date	02/08/2021		
Project Location	AMA AP-3, A, B and B'		Weather(°F)	59.5 degrees F and Clear. The wind is blowing S/SE at 9.2 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	78.83	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	22.29	Total Depth (ft-bmp)	129.13	Water Column(ft)	106.84	Gallons in Well	17.36
MP Elevation	784.53	Pump Intake (ft-bmp)	124	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	16:45	Well Volumes Purged	0.15	Sample ID	YGWA-5D	Sampled by	Peter Argyakis
Purge Start	15:51	Gallons Purged	2.60	Replicate/ Code No.		Color	Clear
Purge End	16:41						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
15:51:10	00:00	200	22.29	7.86	164.99	296.62	9.59	16.7	-164.27
15:56:10	05:00	200	22.29	7.78	165.22	273.17	9.56	16.4	-187.88
16:01:10	10:00	200	22.29	7.73	173.79	258.87	9.65	15.9	-127.42
16:06:10	15:00	200	22.29	7.71	154.23	239.64	9.71	15.6	-139.89
16:11:10	20:00	200	22.29	7.63	206.52	222.85	9.62	15.2	-139.78
16:16:10	25:00	200	22.29	7.61	178.26	208.31	9.66	15.1	-111.34
16:21:10	30:00	200	22.29	7.62	167.01	196.81	9.65	15.0	-110.68
16:26:10	35:00	200	22.29	7.64	155.65	186.23	9.52	15.0	-114.65
16:31:10	40:00	200	22.29	7.64	148.92	176.24	9.49	15.0	-122.46
16:36:10	45:00	200	22.29	7.65	144.09	166.85	9.50	14.9	-127.04
16:41:10	50:00	200	22.29	7.66	143.98	158.30	9.49	14.8	-129.62

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

Comments: LaMotte turbidity readings (time:NTU)
 1550: 1.12
 1555: 1.13
 1600: 1.44
 1605: 2.11
 1610: 1.51
 1615: 1.57
 1620: 1.47
 1625: 1.19
 1630: 1.07
 1635: 0.97
 1640: 1.05

Well Casing Volume Conversion

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form

Project Number 30053437 **Well ID** YGWC-38 **Date** 02/09/2021

Project Location AMA R6 CCR Landfill **Weather(°F)** 59.9 degrees F and Cloudy. The wind is blowing undefined at 0.0 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) 30.75 **Total Depth (ft-bmp)** 50.59 **Water Column(ft)** 19.84 **Gallons in Well** 3.22

MP Elevation 799.69 **Pump Intake (ft-bmp)** 45 **Purge Method** Low-Flow **Sample Method** Low-Flow

Sample Time 13:50 **Well Volumes Purged** 0.18 **Sample ID** YGWC-38 **Sampled by** Katie Pupkiewicz

Purge Start 13:31 **Gallons Purged** 0.58 **Replicate/ Code No.** MS/MSD **Color** Clear

Purge End 13:48

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:31:26	00:00	140	31.3	5.29	961.97	1.26	6.50	20.3	142.48
13:36:26	05:00	100	32.1	5.02	929.66	3.82	4.47	18.5	139.84
13:41:26	10:00	100	32.07	5.02	919.74	1.11	4.29	18.3	139.47
13:46:26	15:00	100	32.05	5.04	920.86	0.69	4.23	18.1	144.02

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

Comments: LaMotte turbidity readings every five minutes in accordance with VuSitu purge log
 1.57
 2.80
 1.70
 1.01

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form

Project Number 30053437 **Well ID** YGWA-5I **Date** 02/08/2021

Project Location AMA AP-3, A, B and B' **Weather(°F)** 59.2 degrees F and Clear. The wind is blowing S/SE at 10.3 mph.

Measuring Pt. Description Top of Inner Casing **Screen Setting (ft-bmp)** 48.64 **Casing Diameter (in)** 2 **Well Casing Material** PVC

Static Water Level (ft-bmp) 18.8 **Total Depth (ft-bmp)** 58.94 **Water Column(ft)** 40.14 **Gallons in Well** 6.52

MP Elevation 784.54 **Pump Intake (ft-bmp)** 53 **Purge Method** Low-Flow **Sample Method** Low-Flow

Sample Time 16:20 **Well Volumes Purged** 0.22 **Sample ID** YGWA-5I(020821) **Sampled by** Katie Pupkiewicz

Purge Start 15:47 **Gallons Purged** 1.45 **Replicate/ Code No.** Dup-01 **Color** Clear

Purge End 16:15

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
15:47:47	00:00	200	19.24	6.88	99.76	0.33	6.11	16.3	198.20
15:52:47	05:00	200	19.24	6.03	96.34	0.12	6.46	16.3	188.16
15:57:47	10:00	200	19.2	5.75	76.12	0.09	6.51	16.3	181.96
16:02:47	15:00	200	19.22	5.70	69.72	0.60	6.47	16.4	179.77
16:07:47	20:00	200	19.22	5.67	67.26	0.74	6.49	16.4	176.42
16:12:47	25:00	200	19.22	5.67	67.27	2.42	6.46	16.4	175.21

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

Comments: LaMotte turbidity taken every 5 min in accordance With VuSitu sample troll
 1.33
 1.60
 1.25
 0.92
 1.40
 1.50

Well Casing Volume Conversion

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

Well Information

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

ft-bmp = feet below measuring point mS/cm = milliSiemens per centimeter mV = millivolts
 in = inches NTU = Nephelometric Turbidity Unit °F = degrees Fahrenheit
 ft = feet mg/L = milligrams per liter °C = degrees Celsius
 mL/min = milliliters per minute µS/cm = microSiemens per centimeters

Groundwater Sampling Form

Project Number	30053437	Well ID	YGWA-20S	Date	02/09/2021		
Project Location	AMA AP-3, A, B and B'		Weather(°F)	68.0 degrees F and Cloudy. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	19.22	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	11.27	Total Depth (ft-bmp)	29.52	Water Column(ft)	18.25	Gallons in Well	2.97
MP Elevation	767.12	Pump Intake (ft-bmp)	24.5	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	16:50	Well Volumes Purged	0.33	Sample ID	YGWA-20S	Sampled by	Katie Pupkiewicz
Purge Start	16:26	Gallons Purged	0.98	Replicate/ Code No.		Color	Clear
Purge End	16:46						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
16:26:09	00:00	160	11.97	5.96	65.31	19.43	7.76	17.3	61.51
16:31:09	05:00	160	12	5.93	60.57	10.01	7.47	17.1	55.91
16:36:09	10:00	160	12.04	5.90	60.16	3.12	7.42	16.9	58.04
16:41:09	15:00	160	12.05	5.87	59.94	1.91	7.41	16.7	61.08
16:46:09	20:00	160	12.05	5.86	60.08	1.43	7.38	16.7	66.54

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

Comments: LaMotte turbidity readings every five minutes in accordance with VuSitu purge log
 13.01
 7.41
 3.84
 2.10
 1.95

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form

Project Number	30053437	Well ID	YGWC-23S	Date	02/09/2021		
Project Location	AMA AP-3, A, B and B'		Weather(°F)	Cloudy breezy 55°F			
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)	16.96	Total Depth (ft-bmp)	38.91	Water Column(ft)	21.95	Gallons in Well	3.57
MP Elevation	764.91	Pump Intake (ft-bmp)	34	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	11:10	Well Volumes Purged	0.50	Sample ID	YGW -23S(020921)	Sampled by	Katie Pupkiewicz
Purge Start	10:33	Gallons Purged	1.80	Replicate/ Code No.		Color	Clear

Purge End 11:05

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:33:25	00:00	210	17.75	5.94	207.22	27.52	8.51	16.7	80.82
10:38:25	05:00	210	17.76	5.73	205.72	17.88	8.22	16.9	90.41
10:43:25	10:00	210	17.77	5.62	200.80	9.98	8.70	17.1	91.95
10:48:25	15:00	210	17.79	5.73	131.25	2.85	7.80	17.2	88.62
10:53:25	20:00	210	17.77	5.64	196.98	1.28	7.84	17.1	88.05
10:58:25	25:00	210	17.8	5.62	195.78	0.59	7.88	17.3	90.60
11:03:25	30:00	210	17.82	5.61	195.48	0.24	7.90	17.4	98.16

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

Comments: LaMotte turbidity readings taken every five minutes in accordance with the VuSitu purge log
 12.43
 7.01
 5.63
 2.09
 1.13
 1.11
 0.75

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form



Project Number	30053437	Well ID	YGWC-43	Date	02/09/2021		
Project Location	AMA R6 CCR Landfill		Weather(°F)	66.7 degrees F and Mostly Cloudy. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	69.16	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	16.28	Total Depth (ft-bmp)	79.66	Water Column(ft)	63.38	Gallons in Well	10.3
MP Elevation	744.96	Pump Intake (ft-bmp)	75	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	15:30	Well Volumes Purged	0.07	Sample ID	YGWC-43	Sampled by	Katie Pupkiewicz
Purge Start	15:09	Gallons Purged	0.69	Replicate/ Code No.		Color	Clear
Purge End	15:26						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
15:09:47	00:00	140	16.41	5.82	809.51	3.40	5.57	19.3	43.08
15:14:47	05:00	140	16.45	5.77	898.40	0.56	1.38	18.6	36.52
15:19:47	10:00	140	16.52	5.82	892.29	0.43	0.90	18.2	36.03
15:24:47	15:00	140	16.45	5.86	868.41	0.38	1.20	18.2	36.25

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

Comments: LaMotte turbidity readings taken every five minutes in accordance with VuSitu purge log
 3.92
 1.64
 0.68
 0.77

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form

Project Number	30053438	Well ID	YGWC-36A	Date	02/10/2021		
Project Location	AMA R6 CCR Landfill		Weather(°F)	69.8 degrees F and Mostly Cloudy. The wind is blowing S at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	689.7	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	13.43	Total Depth (ft-bmp)	51.2	Water Column(ft)	37.77	Gallons in Well	6.14
MP Elevation	739.61	Pump Intake (ft-bmp)	48	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	14:30	Well Volumes Purged	0.22	Sample ID	YGWC-36A	Sampled by	Peter Argyakis
Purge Start	13:56	Gallons Purged	1.32	Replicate/ Code No.		Color	Clear
Purge End	14:27						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:56:54	00:00	150	13.43	5.85	111.21	67.53	8.56	19.1	133.62
14:01:54	05:00	150	13.5	5.99	111.32	27.91	8.38	20.1	131.77
14:06:54	10:00	150	13.63	6.13	111.86	25.95	8.43	20.9	125.34
14:11:54	15:00	150	13.75	6.20	112.17	26.85	8.44	21.6	122.82
14:16:54	20:00	150	13.9	6.25	112.21	18.93	8.44	22.3	121.99
14:21:54	25:00	150	13.98	6.31	112.81	20.67	8.50	23.1	120.45
14:26:54	30:00	150	14.11	6.31	112.80	18.91	8.50	23.8	121.60

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

Comments: LaMotte turbidity readings (time:NTU)
 1357: 11.4
 1402: 7.33
 1407: 5.94
 1412: 4.21
 1417: 4.87
 1422: 4.56
 1427: 3.09

Sample slightly more turbid compared to low-flow purge

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form



Project Number	30053438	Well ID	YAMW-5	Date	02/09/2021		
Project Location	AMA R6 CCR Landfill	Weather(°F)	Cold, dry				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	80.3	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	13.98	Total Depth (ft-bmp)	90.34	Water Column(ft)	76.36	Gallons in Well	12.41
MP Elevation	788.9	Pump Intake (ft-bmp)	85	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	09:45	Well Volumes Purged	0.14	Sample ID	YAMW-5	Sampled by	Peter Argyakis
Purge Start	09:03	Gallons Purged	1.78	Replicate/ Code No.		Color	Clear
Purge End	09:43						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
09:03:44	00:00	250	12.98	5.37	0.07	43.49	10.52	11.9	223.76
09:08:44	05:00	200	13.9	5.32	0.07	55.09	10.21	12.5	220.41
09:13:44	10:00	150	14.47	5.36	0.07	67.25	10.04	12.7	218.76
09:18:44	15:00	150	14.72	5.33	0.07	80.70	9.89	13.0	217.80
09:23:44	20:00	150	14.88	5.34	0.07	83.16	9.79	13.2	216.61
09:28:44	25:00	150	14.96	5.66	0.07	108.44	9.86	13.5	216.52
09:33:44	30:00	150	15.05	5.34	0.07	112.43	9.78	13.8	214.02
09:38:44	35:00	150	15.14	5.34	0.07	130.82	9.72	14.1	214.52
09:43:44	40:00	150	15.14	5.34	0.07	143.48	9.58	14.3	213.19

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

Comments: LaMotte turbidity readings (time:NTU)
 0903: 3.28
 0908: 2.67
 0913: 2.54
 0918: 2.15
 0923: 2.18
 0928: 1.96
 0933: 2.08
 0938: 2.29
 0943: 2.12

Last depth to water: 15.18

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form

Project Number	30053438	Well ID	YAMW-4	Date	02/09/2021		
Project Location	AMA R6 CCR Landfill	Weather(°F)	Sunny, dry				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	86.59	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	31.98	Total Depth (ft-bmp)	96.55	Water Column(ft)	64.57	Gallons in Well	10.49
MP Elevation	805.59	Pump Intake (ft-bmp)	90	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	11:20	Well Volumes Purged	0.21	Sample ID	YAMW-4	Sampled by	Peter Argyakis
Purge Start	10:24	Gallons Purged	2.18	Replicate/ Code No.		Color	Clear
Purge End	11:19						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:24:43	00:00	150	31.98	5.60	0.07	194.37	10.17	13.1	185.76
10:29:43	05:00	150	32.15	6.88	0.07	110.70	9.78	14.0	176.61
10:34:43	10:00	150	32.36	6.88	0.07	102.23	9.75	14.4	170.84
10:39:43	15:00	150	32.48	6.90	0.07	103.96	9.59	14.3	152.16
10:44:43	20:00	150	32.59	6.93	0.30	105.82	9.57	14.3	134.78
10:49:43	25:00	150	32.71	6.89	446.03	0.00	9.20	15.4	75.09
10:54:43	30:00	150	32.76	6.88	437.06	0.00	9.19	15.4	56.75
10:59:43	35:00	150	32.83	6.89	417.28	107.16	9.25	15.3	44.68
11:04:43	40:00	150	33.01	6.78	474.74	1.36	6.48	16.9	-6.45
11:09:43	45:00	150	33.09	6.91	471.10	0.00	3.10	15.8	-9.92
11:14:43	50:00	150	33.15	6.94	470.46	0.00	3.52	15.1	-1.65
11:19:43	55:00	150	33.15	6.96	470.22	0.00	3.96	14.7	-3.43

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

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
µS/cm = microSiemens per centimeters

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Comments: LaMotte turbidity readings (time:NTU)
1024: 1.31
1029: 1.99
1034: 1.78
1039: 1.47
1044: 2.02
1049: 1.77
1054: 1.50
1059: 1.86
1104: 1.42
1109: 1.58
1114: 1.75
1119: 2.03

Last depth to water: 33.22

Well Casing Volume Conversion

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

Well Information

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

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
µS/cm = microSiemens per centimeters

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	30053438	Well ID	YAMW-2	Date	02/09/2021		
Project Location	AMA R6 CCR Landfill		Weather(°F)	57.4 degrees F and Cloudy. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	36.44	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	20.5	Total Depth (ft-bmp)	46.48	Water Column(ft)	25.98	Gallons in Well	4.22
MP Elevation	781.04	Pump Intake (ft-bmp)	41	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	12:45	Well Volumes Purged	0.19	Sample ID	YMWA-2	Sampled by	Peter Argyakis
Purge Start	12:21	Gallons Purged	0.79	Replicate/ Code No.		Color	Clear
Purge End	12:41						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
12:21:40	00:00	150	20.5	5.75	0.00	0.55	9.19	17.6	127.23
12:26:40	05:00	150	20.63	5.90	23.25	41.93	9.11	17.3	113.65
12:31:40	10:00	150	20.8	5.80	65.07	83.36	7.56	17.9	125.49
12:36:40	15:00	150	20.88	5.78	65.62	68.30	7.49	18.7	130.35
12:41:40	20:00	150	20.93	5.81	67.95	83.32	7.34	20.4	131.93

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

Comments: LaMotte turbidity readings (time:NTU)
 1221: 3.92
 1226: 3.46
 1231: 2.85
 1236: 2.51
 1241: 2.18

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form

Project Number	30053438	Well ID	YAMW-1	Date	02/09/2021		
Project Location	AMA AP-3, A, B and B'		Weather(°F)	63.9 degrees F and Partly Cloudy. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	59.6	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	12.63	Total Depth (ft-bmp)	69.93	Water Column(ft)	57.3	Gallons in Well	9.31
MP Elevation	743.83	Pump Intake (ft-bmp)	65	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	14:10	Well Volumes Purged	0.08	Sample ID	YAMW-1	Sampled by	Peter Argyakis
Purge Start	13:53	Gallons Purged	0.73	Replicate/ Code No.		Color	Clear
Purge End	14:08						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:53:02	00:00	250	12.63	5.49	0.06	0.00	8.80	20.7	129.48
13:58:02	05:00	150	12.99	6.41	183.45	0.00	2.98	19.1	126.64
14:03:02	10:00	150	13.18	6.42	183.35	0.00	2.91	19.1	128.01
14:08:02	15:00	150	13.23	6.42	183.16	0.00	3.21	19.0	128.31

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Fluoride	250 mL Plastic	1	HNO3

Comments: LaMotte turbidity reading (time:NTU)
 1353: 2.42
 1358: 1.48
 1403: 1.89
 1409: 1.74

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form

Project Number	30053438	Well ID	YGWC-24SA	Date	02/09/2021		
Project Location	AMA AP-3, A, B and B'		Weather(°F)	66.7 degrees F and Mostly Cloudy. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	47	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	28.52	Total Depth (ft-bmp)	57	Water Column(ft)	28.48	Gallons in Well	4.63
MP Elevation	765	Pump Intake (ft-bmp)	92	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	16:10	Well Volumes Purged	0.51	Sample ID	YGWC-24SA	Sampled by	Peter Argyakis
Purge Start	15:09	Gallons Purged	2.38	Replicate/ Code No.	DUP-2	Color	Clear
Purge End	16:04						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
15:09:39	00:00	300	28.52	5.67	0.06	0.00	8.41	22.2	281.84
15:14:39	05:00	150	28.97	6.17	53.00	0.00	9.20	20.1	228.97
15:19:39	10:00	150	29.03	6.13	42.94	0.00	9.02	20.2	228.78
15:24:39	15:00	150	29.08	6.09	35.31	0.00	8.99	19.9	229.72
15:29:39	20:00	150	29.11	6.06	29.35	0.00	8.89	20.4	231.59
15:34:39	25:00	150	29.15	6.07	32.41	0.00	8.68	20.6	232.71
15:39:39	30:00	150	29.16	6.11	32.39	0.00	8.58	21.0	232.63
15:44:39	35:00	150	29.19	5.74	102.62	0.00	8.29	19.9	227.52
15:49:39	40:00	150	29.24	5.68	104.53	0.00	8.16	19.9	215.83
15:54:39	45:00	150	29.26	5.70	104.97	0.00	8.16	20.2	207.74
15:59:39	50:00	150	29.3	5.69	105.75	0.00	8.12	20.4	205.13
16:04:39	55:00	150	29.34	5.69	105.68	0.00	8.10	20.5	203.62

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

Comments: Lamotte turbidity reading (time:NTU)
 1509: 1.84
 1514: 1.03
 1519: 1.68
 1524: 1.33
 1529: 1.74
 1534: 1.50
 1539: 1.29
 1544: 0.88
 1549: 1.39
 1554: 1.02
 1559: 1.19
 1604: 1.55

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill			Yes	No	N/A
Permit Number:					
Well ID: YAMW-3					
Person Gauging: Peter Argyakis					
Date: 2/8/2021					
Time: 09:32:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill			Yes	No	N/A
Permit Number:					
Well ID: PZ-51					
Person Gauging: Peter Argyakis					
Date: 2/8/2021					
Time: 09:40:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill			Yes	No	N/A
Permit Number:					
Well ID: YGWC-43					
Person Gauging: Peter Argyakis					
Date: 2/8/2021					
Time: 09:46:00					
1	Location Identification:				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill			Yes	No	N/A
Permit Number:					
Well ID: YAMW-4					
Person Gauging: Peter Argyakis					
Date: 2/8/2021					
Time: 09:55:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill			Yes	No	N/A
Permit Number:					
Well ID: YGWC-41					
Person Gauging: Peter Argyakis					
Date: 2/8/2021					
Time: 09:57:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill			Yes	No	N/A
Permit Number:					
Well ID: YGWA-40					
Person Gauging: Peter Argyakis					
Date: 2/8/2021					
Time: 10:02:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill			Yes	No	N/A
Permit Number:					
Well ID: PZ-37					
Person Gauging: Peter Argyakis					
Date: 2/8/2021					
Time: 10:08:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill			Yes	No	N/A
Permit Number:					
Well ID: YGWA-39					
Person Gauging: Peter Argyakis					
Date: 2/8/2021					
Time: 10:16:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill			Yes	No	N/A
Permit Number:					
Well ID: YAMW-5					
Person Gauging: Peter Argyakis					
Date: 2/8/2021					
Time: 10:27:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill			Yes	No	N/A
Permit Number:					
Well ID: YGWC-38					
Person Gauging: Peter Argyakis					
Date: 2/8/2021					
Time: 10:29:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill			Yes	No	N/A
Permit Number:					
Well ID: YAMW-2					
Person Gauging: Peter Argyakis					
Date: 2/8/2021					
Time: 10:49:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: YGWC-23S					
Person Gauging: Katie Pupkiewicz					
Date: 2/8/2021					
Time: 10:42:00					
1	Location Identification:				
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'				
Permit Number:				
Well ID: PZ-06D				
Person Gauging: Peter Argyakis				
Date: 2/8/2021				
Time: 11:19:00				
		Yes	No	N/A
1	Location Identification:			
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:			
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad			
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing			
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: YGWA-6S					
Person Gauging: Peter Argyakis					
Date: 2/8/2021					
Time: 11:21:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'				
Permit Number:				
Well ID: YGWA-6I				
Person Gauging: Peter Argyakis				
Date: 2/8/2021				
Time: 11:22:00				
		Yes	No	N/A
1	Location Identification:			
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:			
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad			
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing			
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: YGWA-17S					
Person Gauging: Peter Argyakis					
Date: 2/8/2021					
Time: 11:25:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: YGWA-18S					
Person Gauging: Peter Argyakis					
Date: 2/8/2021					
Time: 11:34:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'				
Permit Number:				
Well ID: YGWA-18I				
Person Gauging: Peter Argyakis				
Date: 2/8/2021				
Time: 11:38:00				
		Yes	No	N/A
1	Location Identification:			
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:			
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad			
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing			
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: PZ-48					
Person Gauging: Peter Argyakis					
Date: 2/8/2021					
Time: 11:50:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'				
Permit Number:				
Well ID: YGWC-49				
Person Gauging: Peter Argyakis				
Date: 2/8/2021				
Time: 11:55:00				
		Yes	No	N/A
1	Location Identification:			
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:			
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad			
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing			
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: PZ-35					
Person Gauging: Peter Argyakis					
Date: 2/8/2021					
Time: 12:01:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: YAMW-1					
Person Gauging: Peter Argyakis					
Date: 2/8/2021					
Time: 12:02:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill			Yes	No	N/A
Permit Number:					
Well ID: YGWC-36A					
Person Gauging: Peter Argyakis					
Date: 2/8/2021					
Time: 12:05:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'				
Permit Number:				
Well ID: YGWC-24SA				
Person Gauging: Peter Argyakis				
Date: 2/8/2021				
Time: 12:35:00				
		Yes	No	N/A
1	Location Identification:			
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:			
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad			
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing			
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: PZ-24IA					
Person Gauging: Peter Argyakis					
Date: 2/8/2021					
Time: 12:47:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: YGWA-20S					
Person Gauging: Peter Argyakis					
Date: 2/8/2021					
Time: 13:22:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: YGWA-211					
Person Gauging: Peter Argyakis					
Date: 2/8/2021					
Time: 13:24:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'				
Permit Number:				
Well ID: PZ-05S				
Person Gauging: Peter Argyakis				
Date: 2/8/2021				
Time: 13:40:00				
		Yes	No	N/A
1	Location Identification:			
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:			
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad			
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing			
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: YGWA-5I					
Person Gauging: Peter Argyakis					
Date: 2/8/2021					
Time: 13:43:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: YGWA-5D					
Person Gauging: Peter Argyakis					
Date: 2/8/2021					
Time: 13:44:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: PZ-04S					
Person Gauging: Peter Argyakis					
Date: 2/8/2021					
Time: 13:47:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: YGWA-4I					
Person Gauging: Peter Argyakis					
Date: 2/8/2021					
Time: 13:49:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill			Yes	No	N/A
Permit Number:					
Well ID: YGWC-42					
Person Gauging: Peter Argyakis					
Date: 2/8/2021					
Time: 09:28:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

March 2021 Event

Client:		Georgia Power			
Project Location:		AMA AP-3, A, B and B'			
Date:		3/2/2021			
Sampler:		Peter Argyakis			
Equipment:		water probe			
Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
YGWA-5D	3/2/2021	08:05:00	21.88	129.13	--
YGWA-5I	3/2/2021	08:09:00	18.19	58.94	--
PZ-05S	3/2/2021	08:11:00	18.14	41.94	--
PZ-04S	3/2/2021	08:19:00	23.74	33.33	--
YGWA-4I	3/2/2021	08:21:00	22.12	48.81	--
YGWA-20S	3/2/2021	08:32:00	11.28	29.52	--
YGWA-21I	3/2/2021	08:39:00	31.10	79.90	--
YGWA-6I	3/2/2021	09:03:00	18.25	69.03	--
YGWA-6S	3/2/2021	09:05:00	17.87	39.87	--
PZ-06D	3/2/2021	09:07:00	21.22	134.02	--
PZ-48	3/2/2021	09:11:00	19.35	58.73	--
YGWC-49	3/2/2021	09:18:00	31.50	78.53	--
PZ-24IA	3/2/2021	09:27:00	27.68	89.85	--
YGWC-24SA	3/2/2021	09:29:00	27.45	57.00	--
YAMW-1	3/2/2021	09:31:00	10.80	69.93	--
PZ-35	3/2/2021	09:35:00	11.14	50.01	--

Client:		Georgia Power			
Project Location:		AMA R6 CCR Landfill			
Date:		3/2/2021			
Sampler:		Katie Pupkiewicz			
Equipment:		--			
Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
YAMW-5	3/2/2021	08:40:00	13.03	90.34	--
YGWC-38	3/2/2021	08:43:00	30.42	50.59	--
PZ-37	3/2/2021	08:49:00	11.93	49.78	--
YGWA-39	3/2/2021	08:58:00	16.66	68.59	--
YGWA-40	3/2/2021	09:05:00	22.39	48.23	--
YAMW-4	3/2/2021	09:09:00	30.32	96.55	--
YGWC-41	3/2/2021	09:10:00	26.88	67.32	--
YAMW-2	3/2/2021	09:15:00	19.75	46.48	--
YAMW-3	3/2/2021	09:25:00	34.58	91.44	--
YGWC-42	3/2/2021	09:26:00	27.54	59.76	--
PZ-51	3/2/2021	09:33:00	6.98	36.00	--
YGWC-43	3/2/2021	09:35:00	16.15	79.66	--

Client:		Georgia Power			
Project Location:		AMA R6 CCR Landfill			
Date:		3/2/2021			
Sampler:		Peter Argyakis			
Equipment:		water probe			
Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
YGWC-36A	3/2/2021	09:37:00	10.02	51.20	--

Client:		Georgia Power			
Project Location:		AMA AP-3, A, B and B'			
Date:		3/2/2021			
Sampler:		Katie Pupkiewicz			
Equipment:		--			
Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
YGWA-18S	3/2/2021	08:16:00	18.94	39.97	--
YGWA-18I	3/2/2021	08:17:00	22.41	79.97	--
YGWA-17S	3/2/2021	08:24:00	11.38	39.85	--
YGWC-23S	3/2/2021	08:52:00	16.59	38.91	--

March 2021 Daily Calibration Log

Project Plant Yates

Field Staff: Becky Steever/Katie Pupkiewicz/Peter Argyrakis/Jake Swanson

Instrument Calibration

Date: 3/01/21 Time: 11:00

Parameter	Units	Standard	SmarTROLL SN 518784	SmarTROLL SN 613960	SmarTROLL SN 532229	SmarTROLL SN 519017
DO	% saturation	100	100	100	100	NA
Conductivity	us/cm	8000	8000	8000	8000	NA
pH	S.U.	4.00	4.00	4.00	4.00	NA
pH	S.U.	7.00	7.00	7.00	7.00	NA
pH	S.U.	10.00	10.00	10.00	10.00	NA
ORP	mV	235.4	235.4	235.4	235.4	NA

Turbidity Standard	Units	LaMotte SN 8140-2616	LaMotte SN 3764-4013	LaMotte SN 1505-2219	LaMotte SN 1143-1319
0.0	NTU	0.00	0.00	0.00	NA
10.0	NTU	10.00	10.00	10.00	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

NA = not used that day

March 2021 Daily Calibration Log

Project Plant Yates

Field Staff: Becky Steever/Katie Pupkiewicz/Peter Argyrakis/Jake Swanson

Instrument Calibration

Date: 3/02/21 Time: 10:00

Parameter	Units	Standard	SmarTROLL SN 518784	SmarTROLL SN 613960	SmarTROLL SN 532229	SmarTROLL SN 519017
DO	% saturation	100	100	100	100	NA
Conductivity	us/cm	8000	8000	8000	8000	NA
pH	S.U.	4.00	4.00	4.00	4.00	NA
pH	S.U.	7.00	7.00	7.00	7.00	NA
pH	S.U.	10.00	10.00	10.00	10.00	NA
ORP	mV	232.0	232.0	232.0	232.0	NA

Turbidity Standard	Units	LaMotte SN 8140-2616	LaMotte SN 3764-4013	LaMotte SN 1505-2219	LaMotte SN 1143-1319
0.0	NTU	0.00	0.00	0.00	NA
10.0	NTU	10.00	10.00	10.00	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

NA = not used that day

March 2021 Daily Calibration Log

Project Plant Yates

Field Staff: Becky Steever/Katie Pupkiewicz/Peter Argyrakis/Jake Swanson

Instrument Calibration

Date: 3/03/21 Time: 07:45

Parameter	Units	Standard	SmarTROLL SN 518784	SmarTROLL SN 613960	SmarTROLL SN 532229	SmarTROLL SN 519017
DO	% saturation	100	100	100	100	100
Conductivity	us/cm	8000	8000	8000	8000	8000
pH	S.U.	4.00	4.00	4.00	4.00	4.00
pH	S.U.	7.00	7.00	7.00	7.00	7.00
pH	S.U.	10.00	10.00	10.00	10.00	10.00
ORP	mV	232.0	232.0	232.0	232.0	232.0

Turbidity Standard	Units	LaMotte SN 8140-2616	LaMotte SN 3764-4013	LaMotte SN 1505-2219	LaMotte SN 1143-1319
0.0	NTU	0.00	0.00	0.00	0.00
10.0	NTU	10.00	10.00	10.00	10.00

Date: 3/03/21 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 518784	SmarTROLL SN 613960	SmarTROLL SN 532229	SmarTROLL SN 519017
DO	% saturation	100	100	100	100	NA
Conductivity	us/cm	8000	8000	8000	8000	NA
pH	S.U.	4.00	4.00	4.00	4.00	NA
pH	S.U.	7.00	7.00	7.00	7.00	NA
pH	S.U.	10.00	10.00	10.00	10.00	NA
ORP	mV	232.0	232.0	232.0	232.0	NA

Turbidity Standard	Units	LaMotte SN 8140-2616	LaMotte SN 3764-4013	LaMotte SN 1505-2219	LaMotte SN 1143-1319
0.0	NTU	0.00	0.00	0.00	NA
10.0	NTU	10.00	10.00	10.00	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

NA = not used that day

March 2021 Daily Calibration Log

Project Plant Yates

Field Staff: Becky Steever/Katie Pupkiewicz/Peter Argyrakis/Jake Swanson

Instrument Calibration

Date: 3/04/21 Time: 08:00

Parameter	Units	Standard	SmarTROLL SN 518784	SmarTROLL SN 613960	SmarTROLL SN 532229	SmarTROLL SN 519017
DO	% saturation	100	100	100	100	100
Conductivity	us/cm	8000	8000	8000	8000	8000
pH	S.U.	4.00	4.00	4.00	4.00	4.00
pH	S.U.	7.00	7.00	7.00	7.00	7.00
pH	S.U.	10.00	10.00	10.00	10.00	10.00
ORP	mV	232.0	232.0	232.0	232.0	232.0

Turbidity Standard	Units	LaMotte SN 8140-2616	LaMotte SN 3764-4013	LaMotte SN 1505-2219	LaMotte SN 1143-1319
0.0	NTU	0.00	0.00	0.00	0.00
10.0	NTU	10.00	10.00	10.00	10.00

Date: 3/04/21 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 518784	SmarTROLL SN 613960	SmarTROLL SN 532229	SmarTROLL SN 519017
DO	% saturation	100	100	100	100	NA
Conductivity	us/cm	8000	8000	8000	8000	NA
pH	S.U.	4.00	4.00	4.00	4.00	NA
pH	S.U.	7.00	7.00	7.00	7.00	NA
pH	S.U.	10.00	10.00	10.00	10.00	NA
ORP	mV	232.0	232.0	232.0	232.0	NA

Turbidity Standard	Units	LaMotte SN 8140-2616	LaMotte SN 3764-4013	LaMotte SN 1505-2219	LaMotte SN 1143-1319
0.0	NTU	0.00	0.00	0.00	0.00
10.0	NTU	10.00	10.00	10.00	10.00

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 used that day

Groundwater Sampling Form



Project Number 30052922 **Well ID** YGWA-17S **Date** 03/03/2021

Project Location AMA AP-3, A, B and B' **Weather(°F)** 53.6 degrees F and Clear. The wind is blowing N at 9.2 mph.

Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	29.65	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	11.44	Total Depth (ft-bmp)	39.85	Water Column(ft)	28.41	Gallons in Well	4.62
MP Elevation	783.05	Pump Intake (ft-bmp)	34	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	12:20	Well Volumes Purged	0.19	Sample ID	YGWA-17S	Sampled by	Jake Swanson
Purge Start	11:40	Gallons Purged	0.86	Replicate/ Code No.		Color	Clear
Purge End	12:15						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:40:19	00:00	100	11.44	5.98	123.43	1.65	6.24	17.0	201.80
11:42:43	02:24	100	11.65	5.75	107.75	11.48	5.50	17.0	272.02
11:47:43	07:24	100	11.65	5.58	97.19	23.84	3.89	16.9	249.22
11:52:43	12:24	100	11.65	5.54	95.43	17.22	2.87	16.7	245.54
11:57:43	17:24	100	11.65	5.53	97.11	9.17	2.66	16.4	243.19
12:02:43	22:24	100	11.65	5.52	97.48	5.24	2.45	16.4	242.51
12:07:43	27:24	100	11.65	5.52	97.19	4.06	2.44	16.3	243.58
12:12:43	32:24	100	11.65	5.52	96.78	4.65	2.40	16.3	244.61

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

Comments: LaMotte turbidity reading (elapsed time=NTU): 22:24 = 4.22, 27:24 = 2.39, 32:24 = 1.89

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form



Project Number 30053438 **Well ID** YGWA-5I **Date** 03/02/2021

Project Location AMA AP-3, A, B and B' **Weather(°F)** 45.5 degrees F and Light Rain. The wind is blowing E at 5.8 mph.

Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	48.64	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	18.21	Total Depth (ft-bmp)	58.94	Water Column(ft)	40.73	Gallons in Well	6.62
MP Elevation	784.54	Pump Intake (ft-bmp)	53	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	14:05	Well Volumes Purged	0.30	Sample ID	YGWA-5I	Sampled by	Peter Argyakis
Purge Start	13:30	Gallons Purged	1.98	Replicate/ Code No.		Color	Clear
Purge End	14:01						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:30:52	00:00	250	18.21	5.91	96.12	0.42	6.46	17.0	182.12
13:35:52	05:00	250	18.26	5.72	95.57	0.45	6.33	16.4	212.16
13:40:52	10:00	250	18.33	5.64	96.65	1.37	6.46	15.8	226.13
13:45:52	15:00	250	18.4	5.61	97.09	1.04	6.51	15.7	232.09
13:50:52	20:00	250	18.42	5.61	96.00	0.51	6.50	15.7	240.81
13:55:52	25:00	250	18.49	5.62	96.03	0.44	6.73	15.6	244.63
14:00:52	30:00	250	18.53	5.63	96.06	0.24	6.92	15.2	245.00

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

Comments: LaMotte turbidity reading (time:NTU)
 1331: 1.65
 1336: 0.68
 1341: 1.15
 1346: 0.77
 1351: 1.04
 1356: 0.67
 1401: 0.88

Well Casing Volume Conversion

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

Well Information

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

ft-bmp = feet below measuring point mS/cm = milliSiemens per centimeter mV = millivolts
 in = inches NTU = Nephelometric Turbidity Unit °F = degrees Fahrenheit
 ft = feet mg/L = milligrams per liter °C = degrees Celsius
 mL/min = milliliters per minute µS/cm = microSiemens per centimeters

Groundwater Sampling Form



Project Number 30053438 **Well ID** YGWA-20S **Date** 03/03/2021

Project Location AMA AP-3, A, B and B' **Weather(°F)** 44.1 degrees F and Mostly Cloudy. The wind is blowing N at 8.1 mph.

Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	19.22	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	11.21	Total Depth (ft-bmp)	29.52	Water Column(ft)	18.31	Gallons in Well	2.98
MP Elevation	767.12	Pump Intake (ft-bmp)	24.5	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	09:40	Well Volumes Purged	0.58	Sample ID	YGWA-20S	Sampled by	Peter Argyakis
Purge Start	09:07	Gallons Purged	1.72	Replicate/ Code No.		Color	Clear
Purge End	09:37						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
09:07:25	00:00	200	11.21	7.31	103.51	4.83	10.44	13.6	96.66
09:12:25	05:00	200	11.27	5.93	74.72	10.12	8.33	14.5	204.04
09:17:25	10:00	200	11.29	5.83	62.58	7.30	8.03	14.3	224.31
09:22:25	15:00	200	11.3	5.82	60.16	4.38	7.92	14.2	227.98
09:27:25	20:00	200	11.3	5.80	58.49	3.64	7.97	14.1	238.50
09:32:25	25:00	200	11.32	5.83	57.97	2.75	7.91	13.9	238.95
09:37:25	30:00	200	11.33	5.89	57.90	2.91	7.89	13.8	241.09

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

Comments: LaMotte turbidity readings (time:NTU)
 0907: 4.28
 0912: 3.73
 0917: 2.81
 0922: 3.00
 0927: 2.68
 0932: 2.76
 0937: 2.44

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form



Project Number	30053438	Well ID	PZ-35	Date	03/04/2021		
Project Location	AMA AP-3, A, B and B'		Weather(°F)	70.3 degrees F and Clear. The wind is blowing N at 11.4 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	38.91	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	11.1	Total Depth (ft-bmp)	50.01	Water Column(ft)	38.91	Gallons in Well	6.32
MP Elevation	743.81	Pump Intake (ft-bmp)	45	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	15:30	Well Volumes Purged	0.18	Sample ID	PZ-35	Sampled by	Peter Argyakis
Purge Start	15:03	Gallons Purged	1.14	Replicate/ Code No.		Color	Clear
Purge End	15:20						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
15:03:06	00:00	150	11.1	6.02	0.05	6.22	7.92	26.0	178.05
15:08:06	05:00	150	11.1	5.66	111.72	2.49	6.39	24.9	220.96
15:13:06	10:00	150	11.1	5.64	110.65	2.80	5.91	25.7	227.79
15:18:06	15:00	150	11.1	5.62	107.74	8.17	5.78	26.0	231.44
15:23:06	20:00	150	11.1	5.62	106.49	15.26	5.65	26.4	238.38
15:28:06	25:00	150	11.1	5.64	104.50	2.21	5.57	27.0	234.50

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

Comments: LaMotte turbidity reading (time:NTU)
 1503: 3.45
 1508: 4.09
 1513: 2.72
 1518: 1.84
 1523: 1.53
 1528: 1.44

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form



Project Number	30052922	Well ID	YGWA-18S	Date	03/03/2021		
Project Location	AMA AP-3, A, B and B'		Weather(°F)	59.0 degrees F and Clear. The wind is blowing N at 10.3 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	29.97	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	18.89	Total Depth (ft-bmp)	39.97	Water Column(ft)	21.08	Gallons in Well	3.43
MP Elevation	790.57	Pump Intake (ft-bmp)	35	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	13:50	Well Volumes Purged	0.19	Sample ID	YGWA-18S	Sampled by	Jake Swanson
Purge Start	13:14	Gallons Purged	0.66	Replicate/ Code No.		Color	Clear
Purge End	13:40						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:14:02	00:00	100	18.89	5.74	100.59	13.67	6.07	17.8	211.21
13:19:02	05:00	100	19.5	5.42	78.24	19.66	3.55	19.8	204.88
13:24:02	10:00	100	19.52	5.47	87.48	9.15	3.61	21.1	200.16
13:29:02	15:00	100	19.54	5.41	77.03	2.92	3.71	20.0	203.74

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

Comments: LaMotte turbidity reading below 5.0 NTU at time of sampling

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form



Project Number	30053438	Well ID	YAMW-1	Date	03/03/2021		
Project Location	AMA AP-3, A, B and B'		Weather(°F)	64.0 degrees F and Clear. The wind is blowing NW at 5.8 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	59.6	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	10.98	Total Depth (ft-bmp)	69.93	Water Column(ft)	58.95	Gallons in Well	9.58
MP Elevation	743.83	Pump Intake (ft-bmp)	65	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	15:15	Well Volumes Purged	0.11	Sample ID	YAMW-1	Sampled by	Peter Argyakis
Purge Start	14:42	Gallons Purged	1.06	Replicate/ Code No.		Color	Clear
Purge End	15:12						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:42:21	00:00	200	10.98	6.51	126.29	2.49	8.23	19.7	220.69
14:47:21	05:00	100	11.23	6.47	128.90	2.27	7.64	20.5	208.16
14:52:21	10:00	100	11.27	6.51	137.25	0.92	6.86	20.7	201.71
14:57:21	15:00	100	11.4	6.51	154.98	0.67	5.52	20.8	198.37
15:02:21	20:00	100	11.49	6.54	169.72	0.67	4.38	21.2	193.24
15:07:21	25:00	100	11.52	6.54	171.24	0.41	4.22	22.1	190.38
15:12:21	30:00	100	11.54	6.54	172.50	0.74	4.21	23.2	189.22

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

Comments: LaMotte turbidity readings (time:NTU)
 1442: 1.38
 1447: 0.84
 1452: 0.67
 1457: 1.15
 1502: 1.58
 1507: 2.03
 1512: 1.10

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form

Project Number	30053438	Well ID	YGWA-5D	Date	03/02/2021		
Project Location	AMA AP-3, A, B and B'	Weather(°F)	Cloudy				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	78.83	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	21.95	Total Depth (ft-bmp)	129.13	Water Column(ft)	107.18	Gallons in Well	17.42
MP Elevation	784.53	Pump Intake (ft-bmp)	124	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	15:40	Well Volumes Purged	0.02	Sample ID	YGWA-5D	Sampled by	Peter Argyakis
Purge Start	14:25	Gallons Purged	0.26	Replicate/ Code No.	DUP-1	Color	Clear
Purge End	14:35						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:25:44	00:00	100	21.95	7.12	221.71	0.20	7.08	12.2	-68.91
14:30:44	05:00	100	21.95	7.14	221.80	0.17	6.42	12.2	-76.27
14:35:44	10:00	100	21.95	7.15	222.28	0.17	5.33	12.2	-76.29

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

Comments: LaMotte turbidity readings (time:NTU)
 1425: 3.09
 1430: 3.31
 1435: 1.72

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form

Project Number	30052922	Well ID	YGWC-23S	Date	03/04/2021		
Project Location	AMA AP-3, A, B and B'		Weather(°F)	66.2 degrees F and Clear. The wind is blowing N at 13.9 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)	16.49	Total Depth (ft-bmp)	38.91	Water Column(ft)	22.42	Gallons in Well	3.64
MP Elevation	764.91	Pump Intake (ft-bmp)	33	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	12:15	Well Volumes Purged	0.16	Sample ID	YGWC-23S	Sampled by	Jake Swanson
Purge Start	11:42	Gallons Purged	0.57	Replicate/ Code No.		Color	Clear
Purge End	12:05						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:42:39	00:00	100	16.49	5.83	186.51	0.49	8.42	19.2	151.60
11:43:16	00:37	100	16.49	5.73	186.11	1.37	8.46	19.4	157.66
11:49:09	06:30	100	16.69	5.47	193.21	1.64	8.07	19.1	180.67
11:54:09	11:30	100	16.7	5.45	195.04	3.31	8.11	19.3	189.70
11:59:09	16:30	100	16.71	5.44	193.82	0.84	8.10	19.1	195.16
12:04:09	21:30	100	16.71	5.44	191.99	0.00	7.78	19.3	200.90

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

Comments: LaMotte turbidity readings (elapsed time=NTU)
 11:30=2.12, 16:30=2.02, 21:30=1.88

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form



Project Number 30053438 **Well ID** YGWA-211 **Date** 03/04/2021

Project Location AMA AP-3, A, B and B' **Weather(°F)** It is Clear. The wind is blowing N at 10.3 mph.

Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	69.6	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	31.23	Total Depth (ft-bmp)	79.9	Water Column(ft)	48.67	Gallons in Well	7.91
MP Elevation	783.7	Pump Intake (ft-bmp)	75	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	09:35	Well Volumes Purged	0.12	Sample ID	YGWA-211	Sampled by	Peter Argyakis
Purge Start	09:04	Gallons Purged	0.92	Replicate/ Code No.		Color	Clear
Purge End	09:34						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
09:04:36	00:00	100	31.23	6.83	222.21	1.57	5.53	16.4	-17.54
09:09:36	05:00	100	31.25	6.89	171.04	2.30	3.41	16.0	-54.51
09:14:36	10:00	100	31.33	6.89	163.94	1.15	2.20	15.6	-63.05
09:19:36	15:00	100	31.34	6.88	160.47	0.59	1.54	15.5	-60.87
09:24:36	20:00	100	31.4	6.83	159.33	0.49	1.50	15.5	-52.55
09:29:36	25:00	100	31.4	6.80	158.96	0.43	1.51	15.5	-48.96
09:34:36	30:00	100	31.4	6.80	158.80	0.35	1.50	15.5	-45.88

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

Comments: LaMotte turbidity readings (time:NTU)
 0904: 1.85
 0909: 2.66
 0914: 1.90
 0919: 1.47
 0924: 1.62
 0929: 2.05
 0934: 2.33

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form



Project Number 30052922 **Well ID** YGWC-49 **Date** 03/04/2021

Project Location AMA AP-3, A, B and B' **Weather(°F)** 69.4 degrees F and Clear. The wind is blowing N at 8.1 mph.

Measuring Pt. Description Top of Inner Casing **Screen Setting (ft-bmp)** 68.03 **Casing Diameter (in)** 2 **Well Casing Material** PVC

Static Water Level (ft-bmp) 31.33 **Total Depth (ft-bmp)** 78.53 **Water Column(ft)** 47.2 **Gallons in Well** 7.67

MP Elevation 782.73 **Pump Intake (ft-bmp)** 73 **Purge Method** Low-Flow **Sample Method** Low-Flow

Sample Time 14:50 **Well Volumes Purged** 0.10 **Sample ID** YGWC-49 **Sampled by** Katie Pupkiewicz

Purge Start 14:32 **Gallons Purged** 0.77 **Replicate/ Code No.** FB-02 **Color** Clear

Purge End 14:48

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:32:16	00:00	200	31.95	6.63	259.53	0.53	7.37	20.3	182.33
14:37:16	05:00	140	32.25	5.93	259.23	0.50	3.34	19.6	191.71
14:42:16	10:00	140	32.07	5.88	257.97	0.55	3.22	19.6	198.40
14:47:16	15:00	140	32.06	5.88	254.81	0.41	2.92	19.8	199.29

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

Comments: LaMotte turbidity readings taken every five minutes in accordance with VuSitu purge log
 0.94
 1.70
 1.18
 1.09

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form



Project Number 30053438 **Well ID** YGWC-24SA **Date** 03/03/2021

Project Location AMA AP-3, A, B and B' **Weather(°F)** 53.6 degrees F and Clear. The wind is blowing N at 9.2 mph.

Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	47	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	28.05	Total Depth (ft-bmp)	57	Water Column(ft)	28.95	Gallons in Well	4.7
MP Elevation	765	Pump Intake (ft-bmp)	52	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	11:50	Well Volumes Purged	0.31	Sample ID	YGWC-24SA	Sampled by	Peter Argyakis
Purge Start	11:25	Gallons Purged	1.45	Replicate/ Code No.	DUP-2	Color	Clear
Purge End	11:45						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:25:25	00:00	200	28.05	6.07	93.54	3.03	7.55	17.9	228.00
11:30:25	05:00	200	28.05	5.80	79.73	3.81	6.77	18.7	243.15
11:35:25	10:00	300	28.05	5.71	78.78	1.51	6.73	17.8	253.34
11:40:25	15:00	300	28.05	5.70	77.05	1.28	6.59	18.1	258.58
11:45:25	20:00	300	28.05	5.70	79.20	1.52	6.56	18.2	260.52

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

Comments: LaMotte turbidity readings (time:NTU)
 1125: 2.25
 1130: 3.18
 1135: 2.34
 1140: 1.89
 1145: 2.03

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form



Project Number 30053438 **Well ID** YGWA-4I **Date** 03/03/2021

Project Location AMA AP-3, A, B and B' **Weather(°F)** 50.0 degrees F and Clear. The wind is blowing N at 10.3 mph.

Measuring Pt. Description Top of Inner Casing **Screen Setting (ft-bmp)** 38.51 **Casing Diameter (in)** 2 **Well Casing Material** PVC

Static Water Level (ft-bmp) 24.32 **Total Depth (ft-bmp)** 48.81 **Water Column(ft)** 24.49 **Gallons in Well** 3.98

MP Elevation 784.21 **Pump Intake (ft-bmp)** 45 **Purge Method** Low-Flow **Sample Method** Low-Flow

Sample Time 10:35 **Well Volumes Purged** 0.17 **Sample ID** YGWA-4I **Sampled by** Peter Argyakis

Purge Start 10:18 **Gallons Purged** 0.66 **Replicate/ Code No.** **Color** Clear

Purge End 10:33

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:18:33	00:00	200	24.32	6.08	150.39	4.93	6.36	14.7	247.14
10:23:33	05:00	100	24.48	6.20	154.45	0.27	4.11	14.8	240.12
10:28:33	10:00	100	24.55	6.20	152.74	0.16	3.99	14.8	239.85
10:33:33	15:00	100	24.67	6.21	150.47	0.17	4.11	14.6	239.77

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

Comments: LaMotte turbidity readings (time:NTU)
 1018: 1.03
 1023: 1.59
 1028: 0.76
 1033: 1.14

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form

Project Number	30053438	Well ID	YAMW-2	Date	03/03/2021		
Project Location	AMA R6 CCR Landfill		Weather(°F)	60.8 degrees F and Clear. The wind is blowing N/NW at 11.4 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	36.44	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	19.85	Total Depth (ft-bmp)	46.48	Water Column(ft)	26.63	Gallons in Well	4.33
MP Elevation	781.04	Pump Intake (ft-bmp)	42	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	13:34	Well Volumes Purged	0.40	Sample ID	YAMW-2	Sampled by	Peter Argyakis
Purge Start	13:34	Gallons Purged	1.72	Replicate/ Code No.		Color	Clear
Purge End	14:04						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:44:02	10:00	200	19.85	5.71	59.21	4.33	5.42	20.3	151.20
13:49:02	15:00	200	19.85	5.69	58.47	5.00	5.13	20.3	167.02
13:54:02	20:00	200	19.85	5.67	58.68	2.52	4.97	20.1	180.86
13:59:02	25:00	200	19.85	5.65	58.97	2.55	4.97	20.2	187.85
14:04:02	30:00	200	19.85	5.67	59.05	1.90	4.95	20.7	189.97

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

Comments: LaMotte turbidity readings (time:NTU)
 1334: 3.32
 1339: 2.61
 1344: 2.90
 1349: 2.55
 1354: 1.63
 1359: 2.08
 1404: 1.35

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form

Project Number 30052922 **Well ID** PZ-37 **Date** 03/04/2021

Project Location AMA R6 CCR Landfill **Weather(°F)**

Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	39.28	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	11.85	Total Depth (ft-bmp)	49.78	Water Column(ft)	37.93	Gallons in Well	6.16
MP Elevation	760.78	Pump Intake (ft-bmp)	45	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	11:55	Well Volumes Purged	0.14	Sample ID	PZ-37	Sampled by	Katie Pupkiewicz
Purge Start	11:34	Gallons Purged	0.85	Replicate/ Code No.		Color	Clear

Purge End 11:51

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:34:59	00:00	180	12.02	5.68	1510.62	0.09	6.36	18.5	203.06
11:39:59	05:00	180	12.07	5.54	1425.18	0.00	1.16	19.8	225.54
11:44:59	10:00	180	12.07	5.51	1436.50	0.00	0.73	20.2	234.96
11:49:59	15:00	180	12.1	5.51	1423.21	0.12	0.63	20.0	242.65

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

Comments: LaMotte turbidity readings taken every five minutes accordance with VuSitu purge log
 1.40
 1.62
 1.54
 1.24

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form

Project Number 30052922 **Well ID** YGWC-38 **Date** 03/04/2021

Project Location AMA R6 CCR Landfill **Weather(°F)**

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)	30.22	Total Depth (ft-bmp)	50.59	Water Column(ft)	20.37	Gallons in Well	3.31
MP Elevation	799.69	Pump Intake (ft-bmp)	45	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	13:45	Well Volumes Purged	0.24	Sample ID	YGWC-38	Sampled by	Katie Pupkiewicz
Purge Start	13:23	Gallons Purged	0.79	Replicate/ Code No.		Color	Clear

Purge End 13:43

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:23:01	00:00	140	30.83	6.07	884.21	0.87	7.95	21.2	224.62
13:28:01	05:00	120	31.26	5.07	840.89	5.57	4.72	19.8	227.82
13:33:01	10:00	120	31.34	5.01	919.53	2.32	4.20	19.7	227.67
13:38:01	15:00	120	31.4	5.02	915.37	1.30	4.02	20.1	226.86
13:43:01	20:00	120	31.47	5.01	914.31	0.81	3.96	20.1	233.18

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

Comments: LaMotte turbidity readings taken every five minutes in accordance with VuSitu purge log
 1.15
 3.96
 3.40
 1.49
 0.97

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form



Project Number 30053438 **Well ID** YAMW-5 **Date** 03/04/2021

Project Location AMA R6 CCR Landfill **Weather(°F)** 67.8 degrees F and Clear. The wind is blowing N at 8.1 mph.

Measuring Pt. Description Top of Inner Casing **Screen Setting (ft-bmp)** 80.3 **Casing Diameter (in)** 2 **Well Casing Material** PVC

Static Water Level (ft-bmp) 13.41 **Total Depth (ft-bmp)** 90.34 **Water Column(ft)** 76.93 **Gallons in Well** 12.5

MP Elevation 788.9 **Pump Intake (ft-bmp)** 86 **Purge Method** Low-Flow **Sample Method** Low-Flow

Sample Time 14:15 **Well Volumes Purged** 0.11 **Sample ID** YAMW-5 **Sampled by** Peter Argyakis

Purge Start 13:45 **Gallons Purged** 1.32 **Replicate/ Code No.** **Color** Clear

Purge End 14:10

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:45:32	00:00	200	13.41	4.90	0.06	0.28	8.21	21.8	231.42
13:50:32	05:00	200	13.55	5.29	821.37	0.04	7.07	21.6	238.12
13:55:32	10:00	200	13.62	5.29	825.45	0.00	6.69	21.3	260.54
14:00:32	15:00	200	13.7	5.29	827.79	0.00	6.00	22.7	267.99
14:05:32	20:00	200	13.77	5.31	826.69	0.00	6.18	22.3	270.92
14:10:32	25:00	200	13.86	5.32	833.39	0.02	5.65	24.1	266.64

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

Comments: LaMotte turbidity readings (time:NTU)
 1345: 1.26
 1350: 1.50
 1355: 1.78
 1400: 0.79
 1405: 1.48
 1410: 1.12

Well Casing Volume Conversion

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

Well Information

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

ft-bmp = feet below measuring point mS/cm = milliSiemens per centimeter mV = millivolts
 in = inches NTU = Nephelometric Turbidity Unit °F = degrees Fahrenheit
 ft = feet mg/L = milligrams per liter °C = degrees Celsius
 mL/min = milliliters per minute µS/cm = microSiemens per centimeters

Groundwater Sampling Form

Project Number	30053438	Well ID	YAMW-4	Date	03/03/2021		
Project Location	AMA R6 CCR Landfill		Weather(°F)	59.0 degrees F and Clear. The wind is blowing N at 10.3 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	86.59	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	30.77	Total Depth (ft-bmp)	96.55	Water Column(ft)	65.78	Gallons in Well	10.69
MP Elevation	805.59	Pump Intake (ft-bmp)	64	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	13:05	Well Volumes Purged	0.07	Sample ID	YAMW-4	Sampled by	Peter Argyakis
Purge Start	12:40	Gallons Purged	0.79	Replicate/ Code No.		Color	Clear
Purge End	13:00						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
12:40:15	00:00	200	30.77	6.83	457.48	1.29	4.62	19.7	-108.44
12:45:15	05:00	100	30.98	6.83	450.29	1.48	2.85	20.3	-113.87
12:50:15	10:00	100	30.11	6.82	449.08	0.80	2.44	20.3	-120.01
12:55:15	15:00	100	30.15	6.81	449.07	0.56	1.86	20.1	-124.66
13:00:15	20:00	100	30.29	6.80	448.30	0.57	1.87	20.2	-129.14

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

Comments: LaMotte turbidity readings (time:NTU)
 1240: 1.60
 1245: 1.74
 1250: 1.14
 1255: 0.82
 1300: 0.97

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form

Project Number 30052922 **Well ID** YGWA-40 **Date** 03/04/2021

Project Location AMA R6 CCR Landfill **Weather(°F)**

Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	37.73	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	22.32	Total Depth (ft-bmp)	48.23	Water Column(ft)	25.91	Gallons in Well	4.21
MP Elevation	815.73	Pump Intake (ft-bmp)	42	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	10:10	Well Volumes Purged	0.37	Sample ID	YGWA-40	Sampled by	Katie Pupkiewicz
Purge Start	09:37	Gallons Purged	1.56	Replicate/ Code No.		Color	Clear

Purge End 10:08

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
09:37:23	00:00	180	23	5.38	144.05	0.00	5.44	17.0	210.82
09:42:23	05:00	180	23.13	5.28	138.52	0.00	4.34	17.3	224.47
09:47:23	10:00	180	23.06	5.24	143.84	0.00	3.93	17.6	227.41
09:52:23	15:00	180	23.14	5.24	148.10	0.00	3.89	17.8	226.63
09:57:23	20:00	180	23.11	5.23	140.85	0.00	3.83	17.9	224.06
10:02:23	25:00	180	23.12	5.22	141.20	0.00	3.79	17.9	230.38
10:07:23	30:00	180	23.11	5.23	138.12	0.00	3.74	17.9	232.86

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

Comments: LaMotte turbidity readings taken every five minutes in accordance with VuSitu purge log
 0.45
 0.63
 0.38
 0.42
 0.40
 0.44
 0.36

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

Well Information

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

ft-bmp = feet below measuring point mS/cm = milliSiemens per centimeter mV = millivolts
 in = inches NTU = Nephelometric Turbidity Unit °F = degrees Fahrenheit
 ft = feet mg/L = milligrams per liter °C = degrees Celsius
 mL/min = milliliters per minute µS/cm = microSiemens per centimeters

Groundwater Sampling Form



Project Number	30052922	Well ID	YGWC-42	Date	03/04/2021		
Project Location	AMA R6 CCR Landfill		Weather(°F)	It is Clear. The wind is blowing N at 10.3 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	49.36	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	27.47	Total Depth (ft-bmp)	59.76	Water Column(ft)	32.29	Gallons in Well	5.25
MP Elevation	797.86	Pump Intake (ft-bmp)	55	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	08:45	Well Volumes Purged	0.12	Sample ID	YGWC-42	Sampled by	Katie Pupkiewicz
Purge Start	08:24	Gallons Purged	0.63	Replicate/ Code No.		Color	Clear
Purge End	08:41						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
08:24:57	00:00	180	28.37	5.83	1666.83	0.00	5.72	13.8	224.90
08:29:57	05:00	100	29.37	5.59	1660.04	0.00	2.02	15.8	222.94
08:34:57	10:00	100	29.37	5.59	1652.86	0.00	2.05	15.6	226.71
08:39:57	15:00	100	29.38	5.59	1651.55	0.00	1.88	15.9	227.39

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

Comments: LaMotte turbidity readings taken every five minutes in accordance with VuSitu purge log
 1.46
 0.90
 1.01
 0.81

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form

Project Number	30052922	Well ID	YGWC-41	Date	03/04/2021		
Project Location	AMA R6 CCR Landfill		Weather(°F)	It is Clear. The wind is blowing N at 11.4 mph. 40 F			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	56.82	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	26.81	Total Depth (ft-bmp)	67.32	Water Column(ft)	40.51	Gallons in Well	6.58
MP Elevation	803.92	Pump Intake (ft-bmp)	62	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	09:00	Well Volumes Purged	0.11	Sample ID	YGWC-41	Sampled by	Jake Swanson
Purge Start	08:25	Gallons Purged	0.70	Replicate/ Code No.		Color	Clear
Purge End	08:50						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
08:25:52	00:00	100	26.81	4.68	441.39	0.00	9.75	12.2	237.26
08:30:52	05:00	100	27.48	4.72	361.87	0.00	4.95	14.8	230.97
08:35:52	10:00	100	27.5	4.68	336.62	0.00	4.53	15.3	237.70
08:40:52	15:00	100	27.51	4.68	320.54	0.00	4.39	15.7	239.87
08:45:52	20:00	100	27.53	4.70	319.63	0.00	4.28	15.7	245.30
08:50:52	25:00	100	27.55	4.71	322.09	0.00	4.21	16.0	248.43
08:52:30	26:38	100	27.55	4.69	323.62	0.00	4.22	16.1	292.69

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

Comments: LaMotte turbidity readings (time elapsed=NTU)
15:00 = 0.26, 20:00 = 0.18, 25:00 = 0.15

Well Casing Volume Conversion

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

Well Information

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

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
µS/cm = microSiemens per centimeters

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	30052922	Well ID	YGWA-39	Date	03/04/2021		
Project Location	AMA R6 CCR Landfill		Weather(°F)	70.5 degrees F and Clear. The wind is blowing NW at 8.1 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	58.09	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	16.59	Total Depth (ft-bmp)	68.59	Water Column(ft)	52	Gallons in Well	8.45
MP Elevation	818.19	Pump Intake (ft-bmp)	63	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	10:20	Well Volumes Purged	0.06	Sample ID	YGWA-39	Sampled by	Jake Swanson
Purge Start	09:53	Gallons Purged	0.53	Replicate/ Code No.		Color	Clear
Purge End	10:15						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
09:53:02	00:00	100	16.59	6.25	228.95	0.00	6.98	15.6	147.02
09:58:02	05:00	100	16.79	5.71	244.96	0.00	2.43	16.5	67.77
10:03:02	10:00	100	16.79	5.63	256.80	0.00	1.38	16.8	83.04
10:08:02	15:00	100	16.79	5.60	259.73	0.00	1.12	17.2	91.98
10:13:02	20:00	100	16.8	5.54	260.59	0.00	1.05	17.5	92.55

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

Comments: LaMotte turbidity readings (time elapsed:NTU)
10:00=0.21, 15:00=0.16, 20:00=0.11

Well Casing Volume Conversion

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

Well Information

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

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
µS/cm = microSiemens per centimeters

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form



Project Number 30053438	Well ID YGWC-36A	Date 03/04/2021
Project Location AMA R6 CCR Landfill	Weather(°F) 59.9 degrees F and Clear. The wind is blowing N at 13.9 mph.	
Measuring Pt. Description Top of Inner Casing	Screen Setting (ft-bmp) 689.7	Casing Diameter (in) 2
Static Water Level (ft-bmp) 9.94	Total Depth (ft-bmp) 51.2	Water Column(ft) 41.26
MP Elevation 739.61	Pump Intake (ft-bmp) 46	Purge Method Low-Flow
Sample Time 12:35	Well Volumes Purged 0.45	Sample ID YGWA-36A
Purge Start 10:43	Gallons Purged 3.04	Replicate/ Code No.
Purge End 13:53		Color Clear
		Well Casing Material PVC
		Gallons in Well 6.7
		Sample Method Low-Flow
		Sampled by Peter Argyakis

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:43:22	00:00	100	10.11	5.54	106.15	31.57	6.06	18.0	206.13
10:48:22	05:00	100	10.11	5.51	102.44	29.05	5.10	17.7	209.16
10:53:22	10:00	100	10.11	5.51	103.72	21.35	4.63	18.2	211.18
10:58:22	15:00	100	10.11	5.62	106.68	14.27	4.54	18.7	208.12
11:03:22	20:00	100	10.11	5.70	111.86	30.39	4.47	19.3	204.71
11:08:22	25:00	100	10.11	5.72	107.54	13.73	4.52	19.3	208.65
11:13:22	30:00	100	10.11	5.75	109.71	15.14	4.48	19.6	208.35
11:18:22	35:00	100	10.11	5.74	109.80	11.77	4.42	19.7	209.56
11:23:22	40:00	100	10.11	5.73	108.84	14.67	4.44	19.9	210.09
11:28:22	45:00	100	10.11	5.73	104.67	6.64	4.45	20.1	215.75
11:33:22	50:00	100	10.11	5.73	105.28	13.87	4.43	20.0	217.80
11:38:22	55:00	100	10.11	5.73	103.70	9.20	4.37	20.4	216.35
11:43:22	00:00	100	10.11	5.71	102.45	11.45	4.36	20.6	211.38
11:48:22	05:00	100	10.11	5.71	102.11	5.32	4.44	20.6	216.29
11:53:22	10:00	100	10.11	5.70	106.26	5.35	4.47	20.8	219.59
11:58:22	15:00	100	10.11	5.69	101.21	3.92	4.47	20.5	223.37
12:03:22	20:00	100	10.11	5.70	103.72	8.98	4.48	20.8	226.44
12:08:22	25:00	100	10.11	5.69	101.33	7.19	4.45	20.9	231.35
12:13:22	30:00	100	10.11	5.69	101.59	3.58	4.45	21.0	232.52
12:18:22	35:00	100	10.11	5.71	72.15	6.29	8.58	21.8	228.62
12:23:22	40:00	100	10.11	5.68	97.23	3.47	7.93	21.0	233.00
12:28:22	45:00	100	10.11	5.66	96.73	5.84	7.84	20.8	237.26
12:33:22	50:00	100	10.11	5.67	95.32	3.24	7.76	21.1	237.67

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
µS/cm = microSiemens per centimeters

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form



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

Comments: LaMotte turbidity readings (time:NTU)
 1043: 22.8
 1048: 26.8
 1053: 20.3
 1058: 18.4
 1103: 17.9
 1108: 15.6
 1113: 12.6
 1118: 9.19
 1123: 9.34
 1128: 8.49
 1133: 7.83
 1138: 7.14
 1143: 7.13
 1148: 6.44
 1153: 5.25
 1158: 4.88
 1203: 4.67
 1208: 4.79
 1213: 5.73
 1318: 4:25
 1323: 4.97
 1328: 4:53
 1353: 4.77

Mid sample: 4.33
 End of sample: 4.29

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Sampling Form

Project Number	30052922	Well ID	YGWC-43	Date	03/04/2021		
Project Location	AMA R6 CCR Landfill		Weather(°F)	69.4 degrees F and Clear. The wind is blowing N/NW at 13.9 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	69.16	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	16.25	Total Depth (ft-bmp)	79.66	Water Column(ft)	63.41	Gallons in Well	10.3
MP Elevation	744.96	Pump Intake (ft-bmp)	74	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	14:50	Well Volumes Purged	0.04	Sample ID	YGWC-43	Sampled by	Jake Swanson
Purge Start	14:28	Gallons Purged	0.40	Replicate/ Code No.	FB-01	Color	Clear
Purge End	14:43						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:28:16	00:00	100	16.25	7.14	687.49	0.93	7.88	24.2	-95.82
14:33:16	05:00	100	16.45	5.80	636.28	5.16	8.89	20.7	-51.83
14:38:16	10:00	100	16.47	5.85	644.46	0.00	8.84	20.4	-31.71
14:43:16	15:00	100	16.47	5.88	615.65	0.00	8.69	20.3	-19.08

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

Comments: LaMotte turbidity readings (time elapsed=NTU)
5:00=1.47, 10:00=1.05, 15:00= 1.13

Well Casing Volume Conversion

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

Well Information

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

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
µS/cm = microSiemens per centimeters

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form



Project Number	30052922	Well ID	YGWA-18I	Date	03/03/2021		
Project Location	AMA AP-3, A, B and B'		Weather(°F)	63.3 degrees F and Clear. The wind is blowing N/NW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	69.67	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	22.33	Total Depth (ft-bmp)	79.97	Water Column(ft)	57.64	Gallons in Well	9.37
MP Elevation	790.57	Pump Intake (ft-bmp)	75	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	15:00	Well Volumes Purged	0.06	Sample ID	YGWA-18I	Sampled by	Jake Swanson
Purge Start	14:34	Gallons Purged	0.53	Replicate/ Code No.		Color	Clear
Purge End	14:54						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:34:06	00:00	100	22.33	6.31	125.81	0.00	8.33	17.1	193.76
14:39:06	05:00	100	22.55	6.03	125.63	0.00	4.08	17.4	205.85
14:44:06	10:00	100	22.55	5.91	124.14	0.00	3.98	17.0	210.15
14:49:06	15:00	100	22.55	5.88	122.74	0.00	3.87	16.8	213.89
14:54:06	20:00	100	22.55	5.89	123.01	0.00	3.86	16.8	211.83

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

Comments: La Motte turbidity reading (elapsed time=NTU)
 10:00 = 0.43, 15:00 = 0.27, 20:00 = 0.25

Well Casing Volume Conversion

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

Well Information

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

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
 µS/cm = microSiemens per centimeters

mV = millivolts
 °F = degrees Fahrenheit
 °C = degrees Celsius

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill			Yes	No	N/A
Permit Number:					
Well ID: PZ-37					
Person Gauging: Katie Pupkiewicz					
Date: 3/2/2021					
Time: 08:49:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: YGWA-18S					
Person Gauging: Katie Pupkiewicz					
Date: 3/2/2021					
Time: 08:16:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: YGWA-18I					
Person Gauging: Katie Pupkiewicz					
Date: 3/2/2021					
Time: 08:17:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: YGWC-23S					
Person Gauging: Katie Pupkiewicz					
Date: 3/2/2021					
Time: 08:52:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill			Yes	No	N/A
Permit Number:					
Well ID: YGWC-38					
Person Gauging: Katie Pupkiewicz					
Date: 3/2/2021					
Time: 08:43:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill			Yes	No	N/A
Permit Number:					
Well ID: YGWA-39					
Person Gauging: Katie Pupkiewicz					
Date: 3/2/2021					
Time: 08:58:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill			Yes	No	N/A
Permit Number:					
Well ID: YGWA-40					
Person Gauging: Katie Pupkiewicz					
Date: 3/2/2021					
Time: 09:05:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: YGWA-17S					
Person Gauging: Katie Pupkiewicz					
Date: 3/2/2021					
Time: 08:24:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill			Yes	No	N/A
Permit Number:					
Well ID: PZ-51					
Person Gauging: Katie Pupkiewicz					
Date: 3/2/2021					
Time: 09:33:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill				
Permit Number:				
Well ID: YGWC-43				
Person Gauging: Katie Pupkiewicz				
Date: 3/2/2021				
Time: 09:35:00				
		Yes	No	N/A
1	Location Identification:			
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:			
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad			
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing			
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill			Yes	No	N/A
Permit Number:					
Well ID: YAMW-3					
Person Gauging: Katie Pupkiewicz					
Date: 3/2/2021					
Time: 09:25:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill			Yes	No	N/A
Permit Number:					
Well ID: YAMW-2					
Person Gauging: Katie Pupkiewicz					
Date: 3/2/2021					
Time: 09:15:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill			Yes	No	N/A
Permit Number:					
Well ID: YAMW-4					
Person Gauging: Katie Pupkiewicz					
Date: 3/2/2021					
Time: 09:09:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill			Yes	No	N/A
Permit Number:					
Well ID: YAMW-5					
Person Gauging: Katie Pupkiewicz					
Date: 3/2/2021					
Time: 08:40:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill			Yes	No	N/A
Permit Number:					
Well ID: YGWC-42					
Person Gauging: Katie Pupkiewicz					
Date: 3/2/2021					
Time: 09:26:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill			Yes	No	N/A
Permit Number:					
Well ID: YGWC-41					
Person Gauging: Katie Pupkiewicz					
Date: 3/2/2021					
Time: 09:10:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: YGWA-5I					
Person Gauging: Peter Argyakis					
Date: 3/2/2021					
Time: 08:09:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: PZ-05S					
Person Gauging: Peter Argyakis					
Date: 3/2/2021					
Time: 08:11:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'				
Permit Number:				
Well ID: PZ-04S				
Person Gauging: Peter Argyakis				
Date: 3/2/2021				
Time: 08:19:00				
		Yes	No	N/A
1	Location Identification:			
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:			
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad			
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing			
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'				
Permit Number:				
Well ID: YGWA-4I				
Person Gauging: Peter Argyakis				
Date: 3/2/2021				
Time: 08:21:00				
		Yes	No	N/A
1	Location Identification:			
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:			
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad			
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing			
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: YGWA-20S					
Person Gauging: Peter Argyakis					
Date: 3/2/2021					
Time: 08:32:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'				
Permit Number:				
Well ID: YGWA-211				
Person Gauging: Peter Argyakis				
Date: 3/2/2021				
Time: 08:39:00				
		Yes	No	N/A
1	Location Identification:			
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:			
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad			
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing			
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'				
Permit Number:				
Well ID: YGWA-5D				
Person Gauging: Peter Argyakis				
Date: 3/2/2021				
Time: 08:05:00				
		Yes	No	N/A
1	Location Identification:			
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:			
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad			
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing			
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'				
Permit Number:				
Well ID: YGWA-6S				
Person Gauging: Peter Argyakis				
Date: 3/2/2021				
Time: 09:05:00				
		Yes	No	N/A
1	Location Identification:			
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:			
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad			
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing			
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'				
Permit Number:				
Well ID: YGWA-6I				
Person Gauging: Peter Argyakis				
Date: 3/2/2021				
Time: 09:03:00				
		Yes	No	N/A
1	Location Identification:			
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:			
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad			
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing			
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: PZ-06D					
Person Gauging: Peter Argyakis					
Date: 3/2/2021					
Time: 09:07:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'				
Permit Number:				
Well ID: PZ-48				
Person Gauging: Peter Argyakis				
Date: 3/2/2021				
Time: 09:11:00				
		Yes	No	N/A
1	Location Identification:			
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:			
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad			
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing			
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'				
Permit Number:				
Well ID: YGWC-49				
Person Gauging: Peter Argyakis				
Date: 3/2/2021				
Time: 09:18:00				
		Yes	No	N/A
1	Location Identification:			
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:			
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad			
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing			
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'				
Permit Number:				
Well ID: PZ-24IA				
Person Gauging: Peter Argyakis				
Date: 3/2/2021				
Time: 09:27:00				
		Yes	No	N/A
1	Location Identification:			
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:			
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad			
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing			
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: YGWC-24SA					
Person Gauging: Peter Argyakis					
Date: 3/2/2021					
Time: 09:29:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: YAMW-1					
Person Gauging: Peter Argyakis					
Date: 3/2/2021					
Time: 09:31:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA AP-3, A, B and B'			Yes	No	N/A
Permit Number:					
Well ID: PZ-35					
Person Gauging: Peter Argyakis					
Date: 3/2/2021					
Time: 09:35:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: AMA R6 CCR Landfill			Yes	No	N/A
Permit Number:					
Well ID: YGWC-36A					
Person Gauging: Peter Argyakis					
Date: 3/2/2021					
Time: 09:37:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

May 2021

PZ-37D

Groundwater Sampling Form



Project Number	Well ID	PZ-37D		Date	5/13/21		
Project Location	Weather(°F)		Sunny, and warm				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	Casing Diameter (in)	2	Well Casing Material	PVC	
Static Water Level (ft-bmp)	5.95	Total Depth (ft-bmp)	202.85	Water Column(ft)	197.23	Gallons in Well	31.56
MP Elevation	Pump Intake (ft-bmp)		197.8	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	12:30	Well Volumes Purged		Sample ID	PZ-37D(051421)	Sampled by	Becky Steever
Purge Start	10:53	Gallons Purged	2.75	Replicate/ Code No.	DUP-01	Color	Clear
Purge End	12:26						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:53	0	200	5.95	Start					
11:07	14	150	12.58	8.02	794	3.06	0.89	18.04	-293.8
11:12	19	150	13.03	7.92	791	3.08	0.78	18.18	-341.7
11:17	24	125	13.41	7.86	777	2.99	0.23	18.43	-333.7
11:22	29	100	13.88	7.8	765	2.87	0.03	18.65	-325.2
11:27	34	100	13.95	7.77	765	2.11	0.01	18.57	-325.7
11:32	39	100	14.59	7.77	770	2.54	0.01	18.57	-323.3
11:37	44	100	15.38	7.74	748	2.34	0.01	18.56	-307.5
11:42	49	100	15.96	7.72	716	2.08	0.02	18.56	-316.8
11:47	54	100	16.40	7.74	702	2.01	0	18.55	-323.6
11:52	59	100	16.58	7.75	693	1.95	0.01	18.54	-325.5
11:57	64	100	16.80	7.77	671	1.87	0.01	18.55	-324.9
12:02	69	100	17.21	7.78	657	1.76	0.02	18.54	-321.6
12:07	74	100	17.64	7.78	651	1.77	0.01	18.53	-320.4
12:12	79	80		missed reading while adjusting pump flow rate					
12:16	84	80	18.95	7.77	644	1.22	0.01	18.53	-327.1
12:21	89	80	19.07	7.78	637	1.35	0.01	18.51	-323.7
12:26	94	80	19.18	7.79	634	1.36	0.01	18.49	-319.8

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

Well Information


Well Location: _____	Well Locked at Arrival: _____
Condition of Well: _____	Well Locked at Departure: _____
Well Completion: NA _____	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
 µS/cm = microSiemens per centimete

APPENDIX C

Well Installation Report

2021 Semiannual Groundwater and Corrective Action Report
Plant Yates AP-3, A, B, B' and R6 CCR Landfill
Newnan, GA





GEORGIA POWER COMPANY PLANT YATES - AP-3/A/B/B' AND R6 LANDFILL

Groundwater Monitoring Well Installation Report

June 7, 2021

**GEORGIA POWER
COMPANY PLANT
YATES - AP-3/A/B/B'
AND R6 LANDFILL**

Groundwater Monitoring Well Installation
Report

Prepared for:

Georgia Power Company
Newnan, Georgia
Coweta County



Grant Willford
Geologist II

Prepared by:

Arcadis U.S., Inc.
2839 Paces Ferry Road
Suite 900
Atlanta
Georgia 30339
Tel 770 431 8666
Fax 770 435 2666



Geoffrey Gay, P.E.
Technical Expert / Project Manager

Our Ref:

30086734

Date:

June 7, 2021

CONTENTS

Professional Engineer Certification	ii
1 Introduction.....	1
2 Drilling and Well Installation	1
2.1 Drilling Method.....	1
2.2 Screened Interval.....	1
2.3 Well Construction Materials.....	2
2.3.1 Filter Pack	2
2.3.2 Annular Seal.....	2
2.3.3 Cap and Protective Casing	2
3 Well Development	3
4 Survey	3
5 References	3

TABLE

Table 1. Well Survey Data

FIGURE

Figure 1. Well Location Map

APPENDICES

- A Well Driller Performance Bond
- B Well Construction & Development Logs
- C Well Survey Report

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 further certify that this report was prepared by me or by a subordinate working under my direction.



J. Geoffrey Gay, P.E.
Technical Expert
Georgia Registration No. 27801

6-7-21
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. Plant Yates (the Site) is approximately eight miles northwest of the city of Newnan and 13 miles southeast of the city of Carrollton. Plant Yates, once a coal-fired power generation facility converted to natural gas combustion turbines, occupies approximately 2,400 acres.

The objective of this report is to document the installation of a deep bedrock groundwater monitoring well (PZ-37D) adjacent to the existing shallow bedrock well (PZ-37). **Figure 1** depicts the configuration of ash ponds AP-A, AP-B, AP-B', AP-3, and the R6 CCR Landfill and the location of the monitoring wells. PZ-37D was installed on April 16, 2021. Well construction activities were performed in general accordance with the standards described in the RCRA Technical Enforcement Guidance Document (1986) and the Georgia Water Wells Standards Act of 1985.

2 DRILLING AND WELL INSTALLATION

The groundwater monitoring system is designed and installed according to accepted industry standards and following guidelines within the Manual for Groundwater Monitoring (GA EPD 1991). The location and depths of the monitoring wells were selected based on the characterization of site-specific hydrogeologic conditions by a qualified professional engineer and geologist. Groundwater monitoring location PZ-37D was designed to monitor the portion of the bedrock aquifer below PZ-37. The installation date, location, elevation, screen interval, and designation for PZ-37D is provided in the following sections. A copy of the Cascade Drilling Bond is included in **Appendix A**. Boring and Well Construction logs are provided in **Appendix B**. **Table 1** provides a summary of well construction.

2.1 Drilling Method

The piezometer was installed by Cascade Environmental under contract with Southern Company Services (SCS) Field Services. Cascade had a current and valid bond with the Water Wells Standards Advisory Council for the state of Georgia at the time of drilling and well installation.

The piezometer installation was performed under the oversight and direction of a Georgia Registered Professional Engineer with Arcadis. Borehole advancement drilling was completed using rotasonic drilling techniques. The drilling equipment consisted of a 150CC compact track mounted rotasonic drill rig equipped with four-inch sonic core rods with a six-inch outer-casing sleeve. During the drilling, continuous core samples were logged in the field for lithologic properties.

2.2 Screened Interval

Piezometer PZ-37D was screened in the bedrock zone. The monitoring well is constructed with ten feet of prepacked well screen. The screen was placed near the bottom of the borehole with a flush-threaded PVC end cap placed on the bottom of each well to provide a 0.4-foot sump/sediment trap.

2.3 Well Construction Materials

The piezometer well was designed and constructed to: (1) allow sufficient groundwater flow to the well for sampling; (2) minimize the passage of formation materials (turbidity) into the wells; and (3) ensure sufficient structural integrity to prevent collapse of the well. The well was constructed of 2-inch inside diameter Schedule 40 polyvinyl chloride (PVC) casing affixed to a dual-wall slotted 10-foot U-Pack® PVC screen. The U-Pack® well screens consist of a 3-inch diameter outer PVC well screen and a 2-inch centralized inner PVC well screen in one integrated unit. Factory slotted 0.010-inch screens were used. Southern Products and Silica filter pack sand size #1 (approximate 16-40 sieve size) was placed within the void space. The construction materials are ink-free, National Science Foundation (NSF) approved, and do not contain glues or solvents. Casing and screen sections are flush-threaded (ASTM-F-480).

2.3.1 Filter Pack

Following placement of the well screen and casing, the annular space adjacent to the well screen was filled with Southern Products and Silica filter pack sand size #1. This size sand is an approximately 16-40 sieve range, medium fine well-rounded quartz (silica) sand. Filter pack material was placed within the void space of the U-Pack® well screen and the annular space outside of the well screen extended approximately two feet above the top of the well screen. The depth of top of filter pack was measured and recorded in the well construction log provided in **Appendix A**.

After placing the filter pack and prior to installing the annular seal, the well was pumped for at least 30 minutes to ensure proper settlement of the filter pack. Prior to installing the annular seal, the depth to the filter pack was remeasured to ensure a minimum of two feet was present above the screen.

2.3.2 Annular Seal

An annular seal composed of approximately three feet of hydrated bentonite pellets was placed on top of the filter pack by slowly pouring the material down the borehole and tamping it into place with a tremie pipe. The bentonite was hydrated and allowed to cure prior to grouting the well.

Following hydration of the bentonite, the remaining annular space was tremie-grouted with a 30% solids bentonite grout (AQUAGARD®). The monitoring well surface completion consists of a locked, aluminum protective casing and a four-foot by four-foot by four-inch concrete pad.

2.3.3 Cap and Protective Casing

The well riser was fitted with a locking cap and a lockable cover. A one-quarter inch vent hole in the PVC riser pipe provides an avenue for the escape of gas. The protective cap guards the casing from damage and the locking cap serves as a security device to prevent well tampering. Bollards were installed around the four corners of the concrete pad to protect the well.

A weep hole was drilled in the outer protective casing near the bottom above the concrete pad. Pea gravel was placed inside the protective casing between the riser pipe and the outer casing. The well is marked with the proper well identification number on the stand-up casing.

3 WELL DEVELOPMENT

The monitoring well was initially developed using a combination of surging with a weighted bailer (1.6 inches x 36 inches) and pumping with a Grundfos Redi-Flo 2 submersible pump to minimize turbidity during groundwater sampling. The well was surged in 10-inch strokes across the well screen five times. Turbidity, pH, temperature, and conductivity measurements ensured that the well was fully developed. Final turbidity measurements following development were less than 5 NTUs before the well was developed dry. The development forms are included in **Appendix B**.

4 SURVEY

The monitoring well location and top of casing (TOC) elevations were surveyed by Arcadis. Horizontal survey locations are relative to the Georgia State Plane Coordinate System, West Zone, NAD83, US Survey Feet. All horizontal locations meet or exceed an accuracy of 0.50 foot. Vertical elevations are referenced to NAVD1988, US Survey Feet and meet an accuracy standard of 0.01 foot. A detailed survey report is included in **Appendix C**.

5 REFERENCES

Georgia Environmental Protection Division, Georgia Department of Natural Resources. Manual for Groundwater Monitoring, September 1991.

TABLE



Monument	Installation Date	Northing	Easting	Ground Elevation	Top of Casing Elevation (TOC)	Top of Screen Elevation	Bottom of Screen Elevation	Total Depth (ft bTOC)
PZ-37D	4/16/2021	1256478.32	2074688.08	758.8	761.12	568.8	558.8	202.3

Notes:

Elevation in U.S. Survey Feet (NAVD88)

Northing and Easting Georgia State Plane West, NAD83

Latitude and Longitude, WGS84

FIGURE



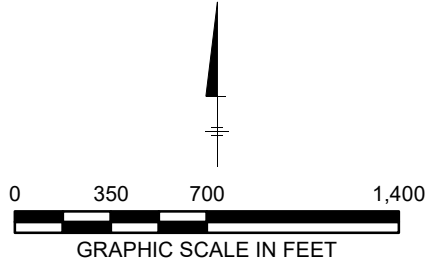


LEGEND

- SAPROLITE NETWORK MONITORING WELL LOCATION
- TRANSITION NETWORK MONITORING WELL LOCATION
- BEDROCK NETWORK MONITORING WELL LOCATION
- SAPROLITE NON-NETWORK WELL/PIEZOMETER
- TRANSITION NON-NETWORK WELL/PIEZOMETER
- BEDROCK NON-NETWORK WELL/PIEZOMETER
- PERMITTED UNIT BOUNDARY

NOTE:

1. PZ-37D WAS INSTALLED AS A VERTICAL DELINEATION WELL FOR PZ-37 IN APRIL 2021.
2. AERIAL IMAGE SOURCES: NOVEMBER 11, 2020 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2019 IMAGERY.



COORDINATE SYSTEM: NAD 1983 STATEPLANE
GEORGIA WEST FIPS 1002 FEET

Georgia Power
PLANT YATES
2021 SEMIANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT

WELL LOCATION MAP

ARCADIS Design & Consultancy for natural and built assets

FIGURE
1

PATH: T:_EN\GA_Power\GPC_Plant_Yates\Map\Map_AMA_V2.mxd DATE SAVED: 6/29/2021 4:27:16 PM LAST SAVED BY: libron

APPENDIX A

Well Driller Performance Bond



COPY

CONTINUATION
CERTIFICATE

Atlantic Specialty Insurance Company

, Surety upon

a certain Bond No. **800031223**

dated effective June 30, 2017
(MONTH-DAY-YEAR)

on behalf of Michael C. Rice and Cascade Drilling, L.P., any and all employees, officers and partners
(PRINCIPAL)

and in favor of State of Georgia
(OBLIGEE)

does hereby continue said bond in force for the further period

beginning on June 30, 2019
(MONTH-DAY-YEAR)

and ending on June 30, 2021
(MONTH-DAY-YEAR)

Amount of bond Thirty Thousand and Zero/100 (\$30,000.00)

Description of bond Water Well Contractor Performance Bond

Premium: \$1,200.00

PROVIDED: That this continuation certificate does not create a new obligation and is executed upon the express condition and provision that the Surety's liability under said bond and this and all Continuation Certificates issued in connection therewith shall not be cumulative and that the said Surety's aggregate liability under said bond and this and all such Continuation Certificates on account of all defaults committed during the period (regardless of the number of years) said bond had been and shall be in force, shall not in any event exceed the amount of said bond as hereinbefore set forth.

Signed and dated on May 9, 2019
(MONTH-DAY-YEAR)
Atlantic Specialty Insurance Company

By _____
Attorney-in-Fact Elizabeth R. Hahn

Parker, Smith & Feek, Inc.
Agent

2233 112th Ave NE Bellevue, WA 98004
Address of Agent

(425) 709-3600
Telephone Number of Agent

Power of Attorney

KNOW ALL MEN BY THESE PRESENTS, that ATLANTIC SPECIALTY INSURANCE COMPANY, a New York corporation with its principal office in Plymouth, Minnesota, does hereby constitute and appoint: **Deanna M. French, Susan B. Larson, Elizabeth R. Hahn, Jana M. Roy, Scott McGilvray, Mindee L. Rankin, Ronald J. Lange, John R. Claeys, Roger Kaltenbach, Guy Armfield, Scott Fisher, Andrew P. Larsen, Nicholas Fredrickson**, each individually if there be more than one named, its true and lawful Attorney-in-Fact, to make, execute, seal and deliver, for and on its behalf as surety, any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof; provided that no bond or undertaking executed under this authority shall exceed in amount the sum of: **sixty million dollars (\$60,000,000)** and the execution of such bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof in pursuance of these presents, shall be as binding upon said Company as if they had been fully signed by an authorized officer of the Company and sealed with the Company seal. This Power of Attorney is made and executed by authority of the following resolutions adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the

Resolved: That the President, any Senior Vice President or Vice-President (each an "Authorized Officer") may execute for and in behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and affix the seal of the Company thereto; and that the Authorized Officer may appoint and authorize an Attorney-in-Fact to execute on behalf of the Company any and all such instruments and to affix the Company seal thereto; and that the Authorized Officer may at any time remove any such Attorney-in-Fact and revoke all power and authority given to any such Attorney-in-Fact.

Resolved: That the Attorney-in-Fact may be given full power and authority to execute for and in the name and on behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and any such instrument executed by any such Attorney-in-Fact shall be as binding upon the Company as if signed and sealed by an Authorized Officer and, further, the Attorney-in-Fact is hereby authorized to verify any affidavit required to be attached to bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof.

This power of attorney is signed and sealed by facsimile under the authority of the following Resolution adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the twenty-fifth day of September, 2012:

Resolved: That the signature of an Authorized Officer, the signature of the Secretary or the Assistant Secretary, and the Company seal may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing an Attorney-in-Fact for purposes only of executing and sealing any bond, undertaking, recognizance or other written obligation in the nature thereof, and any such signature and seal where so used, being hereby adopted by the Company as the original signature of such officer and the original seal of the Company, to be valid and binding upon the Company with the same force and effect as though manually affixed.

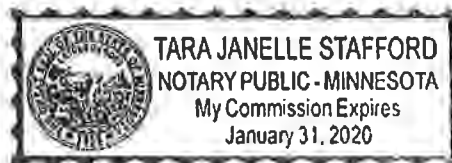
IN WITNESS WHEREOF, ATLANTIC SPECIALTY INSURANCE COMPANY has caused these presents to be signed by an Authorized Officer and the seal of the Company to be affixed this twenty-sixth day of October, 2017.



By *Paul J. Brehm*
Paul J. Brehm, Senior Vice President

STATE OF MINNESOTA
HENNEPIN COUNTY

On this twenty-sixth day of October, 2017, before me personally came Paul J. Brehm, Senior Vice President of ATLANTIC SPECIALTY INSURANCE COMPANY, to me personally known to be the individual and officer described in and who executed the preceding instrument, and he acknowledged the execution of the same, and being by me duly sworn, that he is the said officer of the Company aforesaid, and that the seal affixed to the preceding instrument is the seal of said Company and that the said seal and the signature as such officer was duly affixed and subscribed to the said instrument by the authority and at the direction of the Company.



Tara Janelle Stafford
Notary Public

I, the undersigned, Secretary of ATLANTIC SPECIALTY INSURANCE COMPANY, a New York Corporation, do hereby certify that the foregoing power of attorney is in full force and has not been revoked, and the resolutions set forth above are now in force.

Signed and sealed. Dated 9 day of May 2019

This Power of Attorney expires
October 1, 2019



Christopher V. Jerry
Christopher V. Jerry, Secretary


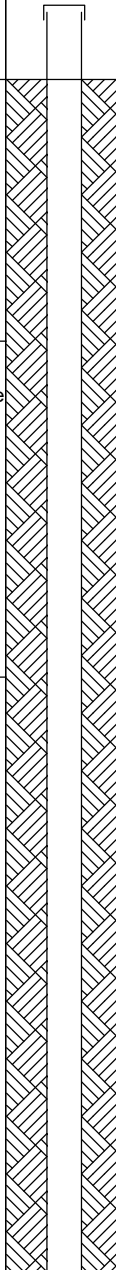
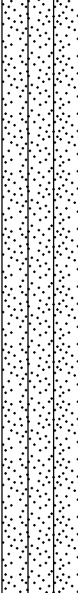

APPENDIX B

Well Construction & Development Logs



Boring Log/Well Construction Log

Project Name: Plant Yates Date Started: 04/05/2021 Logger: Grant Willford
 Project Number: 30086734 Date Completed: 04/16/2021 Editor: Grant Willford
 Project Location: Newnan, GA Weather Conditions: -

Depth (feet)	Sample Interval	Blow Counts	Recovery (in.)	Photo Log	PID (ppm)	Graphic Log	Description	Construction Details	Well
0									
1							Sandy clay (CL); 2.5YR 5/8; some silt; little very fine grained to fine grained sand; angular to sub angular; low plasticity; dry.	Surface completion consists of a locking monument 2.32 ft. above ground surface with a weep hole, vent hole in well casing; 4'x4' concrete pad; four bollards	
2									
3							Silty sand (SM); 2.5Y 8/3 (pale brown) with some 2.5Y 7/1 (light gray); very fine grained to medium grained sand; angular to sub angular; little silt; trace clay; trace granules; angular; granules composed of quartz; micaceous; dry.	30% solids bentonite grout (AQUAGUARD) 3-in. outer dia. with 2-in inner dia. Sch 40 PVC riser.	
4									
5			120						
6									
7									
8									
9									
10									
11							Silty sand (SM); 2.5Y 6/4 (light yellowish brown) with 2.5Y 7/1 (light gray) and GLEY1 10GY 5/1 (greenish gray) mottled through out; very fine grained to fine grained sand; angular to sub angular; some silt; little clay; micaceous; saprolitic; moist.		
12									
13									
14									
15			120						
16									

Drilling Co.: Cascade Sampling Method: Core Barrel
 Driller: David Wilcox Sampling Interval: Continuous
 Drilling Method: Rotosonic Water Level Start (ft. bgs.): _____
 Drilling Fluid: Water Water Level Finish (ft. btoc.): 5.98
 Remarks: ' / ft = feet; " / in = inch; bgs = below ground surface; Converted to Well: Yes No
 NA = not applicable / available. Surface Elev.: 758.8
 North Coord.: 1256478.32
 East Coord.: 2074688.08

MPC BORING LOGS TO GINT L. C:\USERS\G\WILLFORD\DRIVE - ARCADIS\DESKTOP\SOUTHERN COMPANY\GA POWER PLANT\YATES\PZ-37D GINT\MPC BORING LOGS\PA5F.P.GPJ - ARCADIS.GDT_5/14/21

Boring Log/Well Construction Log

Project Name: Plant Yates
 Project Number: 30086734
 Project Location: Newnan, GA

Date Started: 04/05/2021 Date Completed: 04/16/2021
 Logger: Grant Willford Editor: Grant Willford
 Weather Conditions: -

Depth (feet)	Sample Interval	Blow Counts	Recovery (in.)	Photo Log	PID (ppm)	Graphic Log	Description	Construction Details	Well
17							Well-graded sand (SW); 2.5Y 8/1 (white); very fine grained to very coarse grained sand; trace gravel; gravel composed of quartz.	30% solids bentonite grout (AQUAGUARD) 3-in. outer dia. with 2-in inner dia. Sch 40 PVC riser.	
18						Silty sand (SM); 2.5Y 6/4 (light yellowish brown) with 2.5Y 7/1 (light gray) and GLEY1 10GY 5/1 (greenish gray) mottled through out; very fine grained to fine grained sand; angular to sub angular; some silt; little clay; micaceous; saprolitic; moist.			
19									
20									
21									
22									
23							Pulverized rock composed of quartz.		
24							Gneiss (Partially Weathered Rock); black, white and some greenish gray mineral grains; fine grained to very coarse mineral grains; gneissic rock texture; strong to very strong rock strength; partially weathered; rock cobbles range from 0.2 to 0.4 ft in length; some dark red staining on majority of rock cobbles; some pyrite crystals observed.		
25			30						
26									
27									
28									
29									
30									
31									
32						Decrease in mineral grain size; very fine grained to fine grained mineral grains; dark to light orange staining on rock cobbles; slight increase in cobble size.			
33									
34									
35			90						

Remarks: _____

MPC BORING LOGS TO GINT L. C:\USERS\GINTL\FORD\DRIVE - ARCADIS\DESKTOP\SOUTHERN COMPANY\GA POWER PLANT YATES\PZ-37D GINT\MPC BORING LOGS PASF P.GPJ - ARCADIS.GDT_5/14/21

Boring Log/Well Construction Log

Project Name: Plant Yates
 Project Number: 30086734
 Project Location: Newnan, GA

Date Started: 04/05/2021 Date Completed: 04/16/2021
 Logger: Grant Willford Editor: Grant Willford
 Weather Conditions: -

Depth (feet)	Sample Interval	Blow Counts	Recovery (in.)	Photo Log	PID (ppm)	Graphic Log	Description	Construction Details	Well
36							Gneiss (Bedrock); black and white with little greenish gray minerals grains; very fine grained to very coarse grained mineral grains; gneissic rock texture; very strong rock strength; fresh rock; trace partially weathered rock cobbles; little to trace red staining on rock cobbles; some pyrite crystals observed.	30% solids bentonite grout (AQUAGUARD) 3-in. outer dia. with 2-in inner dia. Sch 40 PVC riser.	
37									
38									
39									
40									
41									
42									
43									
44									
45		96							
46							Trace red staining on rock cobbles		
47									
48									
49									
50									
51									
52									
53									
54									

Remarks: _____

Boring Log/Well Construction Log

Project Name: Plant Yates
 Project Number: 30086734
 Project Location: Newnan, GA

Date Started: 04/05/2021 Date Completed: 04/16/2021
 Logger: Grant Willford Editor: Grant Willford
 Weather Conditions: -

Depth (feet)	Sample Interval	Blow Counts	Recovery (in.)	Photo Log	PID (ppm)	Graphic Log	Description	Construction Details	Well
55			120				Gneiss (Bedrock); black and white with little greenish gray minerals grains; very fine grained to very coarse grained mineral grains; gneissic rock texture; very strong rock strength; fresh rock; trace partially weathered rock cobbles; little to trace red staining on rock cobbles; some pyrite crystals observed.		
56									
57									
58									
59									
60									
61									
62									
63									
64									
65			108				Gneiss (Partially Weathered Rock); same composition as described above; partially weathered zone.		
66									
67									
68									
69									
70									
71									
72									
73									

30% solids bentonite grout (AQUAGUARD) 3-in. outer dia. with 2-in inner dia. Sch 40 PVC riser.

Remarks:

Boring Log/Well Construction Log

Project Name: Plant Yates
 Project Number: 30086734
 Project Location: Newnan, GA

Date Started: 04/05/2021 Date Completed: 04/16/2021
 Logger: Grant Willford Editor: Grant Willford
 Weather Conditions: -

Depth (feet)	Sample Interval	Blow Counts	Recovery (in.)	Photo Log	PID (ppm)	Graphic Log	Description	Construction Details	Well
75			108				Gneiss (Bedrock); same composition as described above; trace to no staining on rock cobbles.	30% solids bentonite grout (AQUAGUARD) 3-in. outer dia. with 2-in inner dia. Sch 40 PVC riser.	
76							78.0-79.0 ft bgs; some staining on rock pieces.		
77									
78									
79									
80									
81									
82									
83							Gneiss (Partially Weathered Rock); same composition as described above; partially weathered zone; abundant red staining on rock cobbles.		
84									
85			104				Gneiss (Bedrock); same composition as described above; trace to no red staining on rock cobbles.		
86									
87									
88									
89									
90							Gneiss (Partially Weathered Rock); same composition as described above; partially weathered zone.		
91							Gneiss (Bedrock); same composition as described above; trace red staining on rock cobbles.		
92									
93									

Remarks: _____

Boring Log/Well Construction Log

Project Name: Plant Yates
 Project Number: 30086734
 Project Location: Newnan, GA

Date Started: 04/05/2021 Date Completed: 04/16/2021
 Logger: Grant Willford Editor: Grant Willford
 Weather Conditions: -

Depth (feet)	Sample Interval	Blow Counts	Recovery (in.)	Photo Log	PID (ppm)	Graphic Log	Description	Construction Details	Well
94			102				Gneiss (Bedrock); same composition as described above; trace red staining on rock cobbles.		
95									
96									
97									
98									
99									
100									
101			108				30% solids bentonite grout (AQUAGUARD) 3-in. outer dia. with 2-in inner dia. Sch 40 PVC riser.		
102									
103									
104									
105									
106									
107									
108									
109									
110									
111									
112									


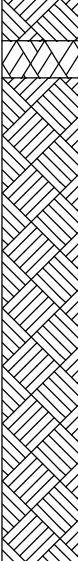
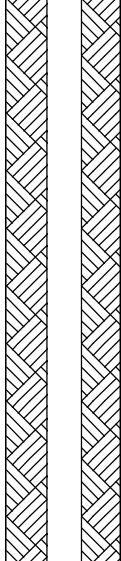

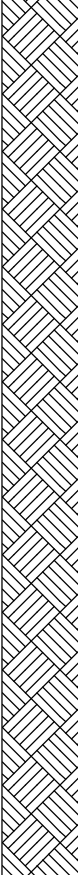
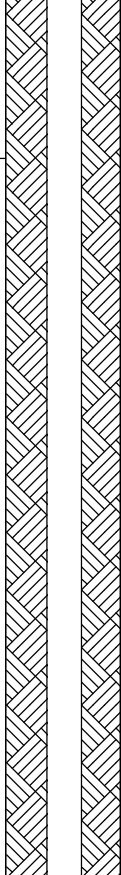
Remarks: _____

MPC BORING LOGS TO GINT L C:\USERS\G\M\W\FORD\DRIVE - ARCADIS\DESKTOP\SOUTHERN COMPANY\YGA POWER PLANT YATES\PZ-37D GINT\MPC BORING LOGS\PA5F P.GPJ - ARCADIS.GDT 5/14/21

Boring Log/Well Construction Log

Project Name: Plant Yates
 Project Number: 30086734
 Project Location: Newnan, GA

Date Started: 04/05/2021 Date Completed: 04/16/2021
 Logger: Grant Willford Editor: Grant Willford
 Weather Conditions: -

Depth (feet)	Sample Interval	Blow Counts	Recovery (in.)	Photo Log	PID (ppm)	Graphic Log	Description	Construction Details	Well
113			108				Gneiss (Partially Weathered Rock); same composition as described above; partially weathered zone.		
114		Gneiss (Bedrock); same composition as described above; little to trace red-orangish red staining on rock cobbles							
115		117.0-120.0 ft bgs; some red staining on fracture surfaces.							
116									
117			96						
118									
119									
120									
121									
122									
123									
124									
125									
126									
127									
128									
129									
130									
131									

30% solids bentonite grout (AQUAGUARD) 3-in. outer dia. with 2-in inner dia. Sch 40 PVC riser.

Remarks:

Boring Log/Well Construction Log

Project Name: Plant Yates
 Project Number: 30086734
 Project Location: Newnan, GA

Date Started: 04/05/2021 Date Completed: 04/16/2021
 Logger: Grant Willford Editor: Grant Willford
 Weather Conditions: -

Depth (feet)	Sample Interval	Blow Counts	Recovery (in.)	Photo Log	PID (ppm)	Graphic Log	Description	Construction Details	Well				
132			42				Gneiss (Bedrock); same composition as described above; little to trace red-orangish red staining on rock cobbles						
133													
134													
135			54										
136													
137													
138			102					30% solids bentonite grout (AQUAGUARD) 3-in. outer dia. with 2-in inner dia. Sch 40 PVC riser.					
139													
140													
141													
142													
143													
144													
145													
146													
147													
148													
149													
150													
151													


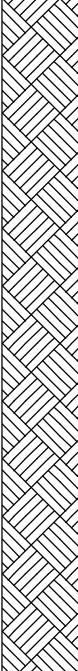
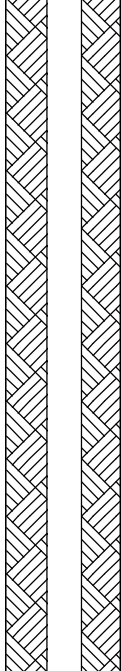

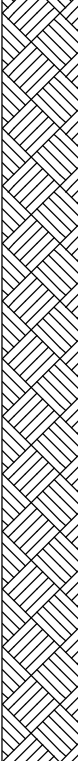
Remarks: _____

MPC BORING LOGS TO GINT L. C:\USERS\GINTL\FORD\DRIVE - ARCADIS\DESKTOP\SOUTHERN COMPANY\GA POWER PLANT YATES\BZ-37D GINT\MPC BORING LOGS PASF P.GPJ - ARCADIS.GDT 5/14/21

Boring Log/Well Construction Log

Project Name: Plant Yates
 Project Number: 30086734
 Project Location: Newnan, GA

Date Started: 04/05/2021 Date Completed: 04/16/2021
 Logger: Grant Willford Editor: Grant Willford
 Weather Conditions: -

Depth (feet)	Sample Interval	Blow Counts	Recovery (in.)	Photo Log	PID (ppm)	Graphic Log	Description	Construction Details	Well		
152			102				Gneiss (Bedrock); same composition as described above; little to trace red-orangish red staining on rock cobbles				
153											
154											
155											
156											
157											
158											
159										158.0 ft bgs; began observing 5-10% very fine grained garnets in rock matrix; trace porphyblast garnets 0.5 inches in diameter.	
160											30% solids bentonite grout (AQUAGUARD) 3-in. outer dia. with 2-in inner dia. Sch 40 PVC riser.
161					96						
162											
163											
164											
165											
166											
167											
168											
169											
170											

Remarks: _____

MPC BORING LOGS TO GINT L. C:\USERS\GIML\FORD\DRIVE - ARCADIS\DESKTOP\SOUTHERN COMPANY\GA POWER PLANT YATES\PZ-37D GINT\MPC BORING LOGS PASF P.GPJ / ARCADIS.GDT 5/14/21

Boring Log/Well Construction Log

Project Name: Plant Yates
 Project Number: 30086734
 Project Location: Newnan, GA

Date Started: 04/05/2021 Date Completed: 04/16/2021
 Logger: Grant Willford Editor: Grant Willford
 Weather Conditions: -

Depth (feet)	Sample Interval	Blow Counts	Recovery (in.)	Photo Log	PID (ppm)	Graphic Log	Description	Construction Details	Well
171							Gniess (Bedrock); same composition as described above; little to trace red-orangish red staining on rock cobbles		
172									
173									
174									
175			120						
176									
177									
178									
179									
180									
181							Bentonite seal (Pel-Plug 3/8-inch pellets).		
182									
183									
184									
185			120						
186									
187									
188									
189									
							So. Products Filter Pack No.1 (16-40)		


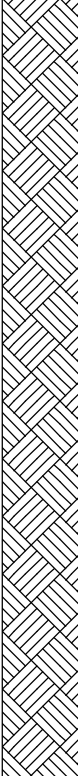
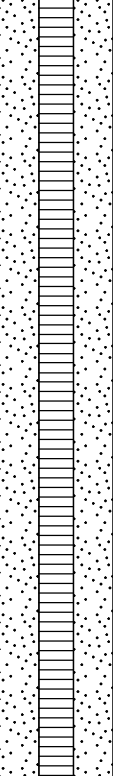
Remarks: _____

MPC BORING LOGS TO GINT L. C:\USERS\GILLFORD\DRIVE - ARCADIS\DESKTOP\SOUTHERN COMPANY\YGA POWER PLANT YATES\PZ-37D GINT\MPC BORING LOGS PASF P.GPJ / ARCADIS.GDT 5/14/21

Boring Log/Well Construction Log

Project Name: Plant Yates
 Project Number: 30086734
 Project Location: Newnan, GA

Date Started: 04/05/2021 Date Completed: 04/16/2021
 Logger: Grant Willford Editor: Grant Willford
 Weather Conditions: -

Depth (feet)	Sample Interval	Blow Counts	Recovery (in.)	Photo Log	PID (ppm)	Graphic Log	Description	Construction Details	Well
190							Gneiss (Bedrock); same composition as described above; little to trace red-orangish red staining on rock cobbles	3-inch outer dia. with 2 inch inner dia U-Pack Sch. 40 PVC, 0.010-in slot; 16-40 filter pack	
191									
192									
193									
194									
195			114						
196									
197									
198									
199									
200									
201							End of boring 200.0 ft bgs.		
202									
203									
204									
205									
206									
207									
208									

Remarks: _____

MPC BORING LOGS TO GINT L. C:\USERS\G\WILLFORD\DRIVE - ARCADIS\DESKTOP\SOUTHERN COMPANY\GA POWER PLANT YATES\PZ-37D GINT\MPC BORING LOGS PASF P.GPJ / ARCADIS.GDT 5/14/21

WELL DEVELOPMENT LOG

Project No. _____

Well ID P2-370

Site Location Plant Yates

Evacuation Data:

Depth to bottom of well (ft bls) 200.28

Casing stick-up above concrete (feet) 2.44

Depth to water from top of casing 5.95 h to c (ft)

Screened Interval (ft bls) 190-200

Water Column 194.3 (ft) Gallons in well 31.09

Casing Diameter: 2"

Casing Volume 1"=0.04 gal gal/ft, 2"=0.16 gal/ft

* 1012 Pump on purging @ ~0.25 GPM

DTU bls ft
/ 234
/ 69.0
87.5
109.6
119.8
121.65
123.88
124.71
126.06
193.5

Date/Time	Gallons Removed	pH/Temp	Temperature (°C)	Specific Conductance (µmhos/cm)	Appearance/Flow Rate	NTU
4/20/21 0840	0.1	7.97/176.1	15.4/4.99	195.1	Initial water quality reading / Clear - started	33.1
1008	~0.5	/	/	/	WL after installing pump	/
1015	1.25	7.71/170.7	16.9	461.2	Clear / 0.25	66.7
1024	3.5	/	/	/	Increased flow to 1.5 GPM	/
1030	12.5	7.91/170.0	17.5/0.56	411.5	Clear / 1.5 GPM	26.7
1035	20	7.98/173.3	17.7/0.69	350.7	Clear / 1.5 GPM	27.9
1042	27	8.07/173.1	18.2/0.71	297.6	Clear / 1.0 GPM	27.3
1050	30	8.04/170.0	18.5/0.63	329.7	Clear / Flow rate dropped to 0.5 GPM	26.9
1055	32 31.25	7.93/173.0	18.6/0.59	380.9	Clear / 0.5 GPM	14.7
1120	37.50	7.87/174.0	19.1/0.47	478.3	Clear / 0.25 GPM	9.37
1125	38.75	7.88/175.0	19.3/0.43	477.5	Clear / 0.25 GPM	5.63
1130	40	7.86/175.0	19.3/0.42	485.9	Clear / 0.25 GPM	4.24
1133					Increased flow with pump	dry
1154	MSD.79				Pump OK	

Prepared By GW Grant Willford

Date 4/20/2021

Prepared By _____

Date _____

Remarks Stick up surface completion, bailed/surged well w/ 1.6' x 2' weighted disposable bailer; bailed + surged well screen 5 times / surged screen 10x in 1 stroke removed no. 5 sand / no sand silt observed in GW record

* Hard bottom when tested Pump @ ~190 ft has surged pump prior to reading first 30 min of run

2 of 2

WELL DEVELOPMENT LOG

Project No. _____

Well ID P2-370

Site Location Plant Yates

Evacuation Data:

Depth to bottom of well (ft bls) 200.28

Casing stick-up above concrete (feet) 2.44

Depth to water from top of casing 5.906 to

Screened Interval (ft bls) 190-200

Water Column 144.3 (ft) Gallons in well 37.09

Casing Diameter: 2"

Casing Volume 1"=0.04 gal gal/ft, 2"=0.16 gal/ft

<u>DTW bls</u>	Date/Time	Gallons Removed	pH	Temperature (°C)	Specific Conductance (µmhos/cm)	Appearance	<u>WTU</u>
177.72	1200	~50.79	/	/	/	monitor recharge	/
169.02	1205		/	/	/		/
160.09	1210		/	/	/		/
153.30	1215		/	/	/		/
90.71	1312		/	/	/		/
_____ A/20/2021							

Prepared By Grant Wilford

Date 4/20/2021

Prepared By _____

Date _____

Remarks _____

APPENDIX C

Well Survey Report



Ms. Lauren Coker
Southern Company
Environmental Solutions
241 Ralph McGill Blvd, NE
Atlanta, GA 30308

Arcadis U.S., Inc.
1210 Premier Drive
Suite 200
Chattanooga
Tennessee 37421
Tel 423 756 7193
Fax 423 756 7197
www.arcadis-us.com

Subject:
Piezometer Survey – PZ-37D
Plant Yates, 708 Dyer Road, Newnan, Georgia

Date:
May 11, 2021

Dear Ms. Coker:

Contact:
Cory Williams, RLS

Attached is a copy of the survey report for Piezometer PZ-37D at Plant Yates.

Phone:
919.415.2348

We appreciate the opportunity to work with Georgia Power and look forward to working with you in the future. If you need additional information, please feel free to contact me.

Email:
cory.williams@arcadis.com

Sincerely,
Arcadis U.S., Inc.

Our ref:
30086734



A. Cory Williams, RLS
Survey Department Manager

Attachments

Copies:
Geoffrey Gay, PE

DESCRIPTION AND SCOPE

Arcadis performed horizontal and vertical field survey locations of the existing well networks, including all monitoring wells and piezometers. The Arcadis field survey team obtained horizontal and vertical locations for the top of the well casing (TOC) and surveyed the nail located on the concrete pad around the well. Where no nail was present, the field crew surveyed the top of the concrete well pad.

The Arcadis field team utilized a combination of Leica GS16 Global Positioning System (GPS) with traditional Leica MS60 Robotic Total Station field survey equipment and methods to obtain horizontal locations of the TOC and/or nail or top of the concrete well pad. All horizontal field survey locations are relative to the Georgia State Plane Coordinate System, West Zone, NAD1983, US Survey Feet. All horizontal locations meet or exceed an accuracy level of 0.50 foot. All vertical field survey locations were obtained from a level loop, performed with the Leica DNA03 digital level.

Next, we began from a benchmark set by utilizing GPS Static Session with an OPUS solution and subsequently verified via the eGPS RTN Network and ran through all well and piezometer locations to close on the beginning benchmark to confirm accuracy. All vertical elevations are referenced to NAVD1988, US Survey Feet and meet an accuracy standard of 0.01 foot.

See the attached exhibit detailing the surveyed location for Piezometer PZ-37D.

CERTIFICATION

I, A. Cory Williams, being a Georgia Licensed Professional Land Surveyor, in accordance with the Georgia Board of Professional Engineers and Land Surveyors do hereby certify that the information contained herein is true and correct and has been prepared in accordance with generally accepted good land survey practices under my supervision, and the data is reliable to a horizontal accuracy of 0.5 foot and an elevational accuracy of 0.01 foot for each surveyed point.

FINAL REVIEW:

A. Cory Williams, RLS

DATE: May 11, 2021



A. Cory Williams, RLS
1210 Premier Drive, Suite 200
Chattanooga, TN 37421
919.415.2348

EXHIBIT 1

Plant Yates – AMA Monitoring Well and Piezometer Surveys

Monument	Concrete Base Point	NAVD88 Elevation	Georgia State Plane Grid (NAD83), West Zone		WGS84 Latitude	Longitude
			Northing	Easting		
PZ-37D (added May 2021)	Casing	761.12	1256478.32	2074688.08	33° 27' 07.578" N	84° 53' 39.058" W
	Disk	758.87	1256479.07	2074688.90		
	Ground	758.8				

Notes:

NAD83(2011) coordinates established by utilizing eGPS VRS & OPUS Solutions
 Elevations derived from Arcadis BM#1 (El. 758.24)
 Elevations & coordinates are U.S. Survey feet

Arcadis U.S., Inc.

2839 Paces Ferry Road

Suite 900

Atlanta, Georgia 30339

Tel 770 431 8666

Fax 770 435 2666

www.arcadis.com

APPENDIX D

Analytical Laboratory Data and Validation Reports (February and March 2021)

February 2021

Annual Assessment Event



Georgia Power Co. – Plant Yates

DATA REVIEW

Metals, Radium, and General Chemistry Analyses

SDGs # 92521564, 92521572, 92521574 and 92521583

Analyses Performed By:

Pace Analytical Services – Asheville, North Carolina


Pace Analytical Services – Peachtree Corners, Georgia

Pace Analytical Services – Greensburg, Pennsylvania

Report #41026R

Review Level: Tier II

Project: 30052922.00004



DATA REVIEW REPORT

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Groups (SDGs) # 92521564, 92521572, 92521574 and 92521583 for samples collected in association with the Georgia Power Company – Plant Yates. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the chain of custody form and a table summarizing the data validation qualifiers. Analyses were performed on the following samples:

SDG	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
						RAD	MET	GEN CHEM
92521564 92521574	YGWC-38	92521564-1 92521574-1	Water	02/09/21		X	X	X
	YGWC-41	92521564-2 92521574-2	Water	02/10/21		X	X	X
	YGWC-42	92521564-3 92521574-3	Water	02/10/21		X	X	X
	YGWC-43	92521564-4 92521574-4	Water	02/09/21		X	X	X
	EB-01	92521564-5 92521574-5	Water	02/10/21		X	X	X
	YGWC-23S	92521564-6 92521574-6	Water	02/09/21		X	X	X
	YGWC-49	92521564-7 92521574-7	Water	02/09/21		X	X	X
	YGWC-24SA	92521564-8 92521574-8	Water	02/09/21		X	X	X
	DUP-02	92521564-9 92521574-9	Water	02/09/21	YGWC-24SA	X	X	X
	YGWC-36A	92521564-10 92521574-10	Water	02/10/21		X	X	X
92521572 92521583	PZ-37	92521572-1 92521583-1	Water	02/09/21		X	X	X
	YAMW-2	92521572-3 92521583-3	Water	02/09/21		X	X	X
	YAMW-4	92521572-4 92521583-4	Water	02/09/21		X	X	X
	YAMW-5	92521572-5 92521583-5	Water	02/09/21		X	X	X
92521572	YAMW-1	92521572-6	Water	02/09/21		X	X	X

DATA REVIEW REPORT

SDG	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
						RAD	MET	GEN CHEM
92521583		92521583-6						
	PZ-35	92521572-7 92521583-7	Water	02/10/21		X	X	X

Notes:

1. Metals were performed by Pace Analytical Services – Peachtree Corners, Georgia.
2. Anions (fluoride) analysis performed by Pace Analytical Services – Asheville, North Carolina.
3. Radium analysis performed by Pace Analytical Services – Greensburg, Pennsylvania.
4. pH analysis performed as a field measurement.

DATA REVIEW REPORT

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

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

Note:

QA - Quality Assurance

DATA REVIEW REPORT

INORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 6010D, 6020B, 9315, and 9320; Standard Method (SM) SM4500-H+ B 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 National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017).

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 reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - R The sample results are rejected.

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

DATA REVIEW REPORT

METALS ANALYSES

1. Holding Times

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

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

Note:

s.u. = Standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

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

All compounds associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the compounds listed in the following table. Sample results associated with QA blank contamination that were greater than the BAL resulted in the removal of the laboratory qualifier (B) of data. Sample results less than the BAL associated with the following sample locations were qualified as listed in the following table.

Sample Locations	Analytes	Sample Result	Qualification
YGWC-41 YGWC-42 YGWC-36A	Lead (EB)	Detected sample results <RL and <BAL	"UB" at the RL

Note:

EB = Equipment blank

RL = Reporting limit

MB = Method Blank

DATA REVIEW REPORT

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 performed on samples YGWC-38 and PZ-37 exhibited recoveries and RPDs 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 RPD.

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
YGWC-24SA / DUP-02	Barium	0.031	0.030	AC
	Beryllium	0.00013 J	0.00014 J	AC
	Chromium	0.0011 J	0.0013 J	AC
	Lead	0.00036 J	0.00036 J	AC

Note:

AC = Acceptable

The RPD between the parent samples and the field duplicate samples were acceptable.

DATA REVIEW REPORT

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 REVIEW REPORT

DATA VALIDATION CHECKLIST FOR METALS

METALS: SW-846 6010D/6020B/7470A	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	

Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES)

Inductively Coupled Plasma-Mass Spectrometry (ICP-MS)

Atomic Absorption – Manual Cold Vapor (CV)

Tier II Validation

Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X	X		
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X		X	
Reporting Limit Verification		X		X	

Notes:

%R Percent recovery

RPD Relative percent difference

DATA REVIEW REPORT

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
Fluoride 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 performed on sample DUP-02 for the fluoride analysis exhibited recoveries and RPDs within the control limits.

All analytes associated with MS/MSD recoveries were within control limits with the exception of the following analyte present in the table below.

DATA REVIEW REPORT

Sample Location	Analyte	MS Recovery	MSD Recovery
YGWC-38	Fluoride	146%	142%

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

Control limit	Sample Result	Qualification
MS/MSD percent recovery 30% to 74%	Non-detect	UJ
	Detect	J
MS/MSD percent recovery <30%	Non-detect	R
	Detect	J
MS/MSD percent recovery >125%	Non-detect	No Action
	Detect	J

3.2 Laboratory Duplicate Analysis

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

Laboratory duplicate analysis was not performed using a sample from this SDG.

4. Field Duplicate Analysis

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

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YGWC-24SA / DUP-02	Fluoride	0.10 U	0.10 U	AC

Notes:

AC = Acceptable

The RPD between the parent samples and the field duplicate samples were acceptable.

DATA REVIEW REPORT

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 REVIEW REPORT

DATA VALIDATION CHECKLIST FOR GENERAL CHEMISTRY

General Chemistry: SM4500-H+ B and USEPA 300.0	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment blanks		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X	X		
Matrix Spike Duplicate (MSD) %R		X	X		
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X		X	
Dilution Factor		X		X	
Moisture Content	X				X

Notes:

%R Percent recovery

RPD Relative percent difference

DATA REVIEW REPORT

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 reporting limit (RL) of 1 pCi/L.

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 minimum detectable concentration (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:

$$\text{Normalized absolute difference}_{\text{MethodBlank}} = \frac{| \text{Sample} - \text{Blank} |}{\sqrt{(U_{\text{Sample}})^2 + (U_{\text{Blank}})^2}}$$

Where:

U_{Sample} = uncertainty of the sample

U_{Blank} = uncertainty of the blank

Sample = concentration of isotope in sample

Blank = concentration of isotope in blank

DATA REVIEW REPORT

Normalized Absolute Difference	Qualification
> 2.58	None
1.96 > x < 2.58	J
x < 1.96	J*

* = Minimally the result should be qualified as estimated, J; however, if other quality indicators are deficient the validator may determine the result should be qualified as rejected, R

Radium-228, 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 < +/- 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.

x₀ = measured concentration of the unspiked sample.

c = spike concentration added.

u²(x), u²(x₀), u²(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.

The MS/MSD performed on sample YGWC-38 exhibited recoveries and RPDs within the control limits.

DATA REVIEW REPORT

3.2 Laboratory Duplicate Analysis

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

The numerical performance indicator for laboratory duplicates is calculated by:

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

Where:

x_1, x_2 = two measured activity concentrations.

$u^2(x_1), u^2(x_2)$ = the combined standard uncertainty of each measurement squared.

Duplicate sample performance is acceptable when the numerical performance indicator calculation yields a value between +/- 3 sigma. Warning limits have been established as +/- 2 sigma.

A laboratory duplicate was not included in the data package.

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:

For all analyses in soil matrices, 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 analysis is used to assess the overall precision of the field sampling procedures and analytical method. For results greater than five times the MDC, a control limit of 35 percent for water matrices is applied to the RPD between the parent and field duplicate sample results. If the parent and field duplicate sample results are less than five times the MDC, for water matrices a control limit of two times the MDC is applied to the difference between the results.

The field duplicate sample results are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YGWC-24SA / DUP-02	Radium-226	0.100 +/-0.114	0.153 +/-0.130	AC
	Radium-228	0.578 +/- 0.379	0.310 +/- 0.321	
	Total Radium	0.678 +/- 0.493	0.463 +/- 0.451	

Notes:

DATA REVIEW REPORT

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
------------------------	---------	---------------	------------------	-----

AC = Acceptable

The RPD between the parent samples and the field duplicate samples were acceptable.

5. Tracer or Carrier

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

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

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

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS/LCSD analysis must exhibit a percent recovery between the control limits of 60% to 135%. In the event the recovery is outside of this limit, a numerical indicator to make assessments is calculated, with a limit of +/- 3 sigma.

The numerical performance indicator for a laboratory control sample is calculated

by:

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

Where:

x = Analytical result of the LCS

c = Known concentration of the LCS

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

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

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

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

7. Isotope Identification

For sample results to be considered "non-detect", evaluate data based on the following two criteria. If either one of these criteria is true, the sample result is considered "non-detect".

1. Sample result is less than the uncertainty and less than the MDC/MDA; or
2. Sample has an uncertainty greater than the result (or indistinguishable from background) or result falls between its uncertainty and its MDC/MDA.

Based on the above criteria sample results should be considered non-detect as follows:

DATA REVIEW REPORT

- YGWC-38 – Radium 228 and Total Radium
- YGWC-41 – Radium 226, Radium 228 and Total Radium
- YGWC-42 - Radium 226, Radium 228 and Total Radium
- EB-01 - Radium 226, Radium 228 and Total Radium
- YGWC-23S - Radium 226, Radium 228 and Total Radium
- YGWC-49 - Radium 226, Radium 228 and Total Radium
- YGWC-24SA - Radium 226, Radium 228 and Total Radium
- DUP-02 - Radium 226, Radium 228 and Total Radium
- YGWC-36A - Radium 226, Radium 228 and Total Radium
- YAMW-2 - Radium 226, Radium 228 and Total Radium
- YAMW-4 - Radium 226, Radium 228 and Total Radium
- YAMW-5 - Radium 228 and Total Radium
- YAMW-1 - Radium 226, Radium 228 and Total Radium
- PZ-35 - Radium 226, Radium 228 and Total Radium

8. System Performance and Overall Assessment

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

DATA REVIEW REPORT

DATA VALIDATION CHECKLIST FOR RADIOLOGICALS

RADIOLOGICALS: SW-846 9315/9320	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Gas-Flow Proportional System					
Tier II Validation					
Holding Times		X		X	
Activity, +/- uncertainty, MDC/MDA		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X		X	
Carrier (Surrogate) %R		X		X	
Tracer (Surrogate) %R		X		X	
Laboratory Control Sample (LCS)		X		X	
Laboratory Control Sample Duplicate (LCSD)		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X		X	

Notes:

%R Percent recovery

RPD Relative percent difference

DATA REVIEW REPORT

VALIDATION PERFORMED BY: Rachelle Borne

SIGNATURE:



DATE: May 14, 2021

PEER REVIEW: Jennifer Singer

DATE: May 18, 2021

CHAIN OF CUSTODY / DATA QUALIFIER SUMMARY TABLE





CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Section B

Section C

Client Information:
 Company: Georgia Power
 Address: 1070 Briarcliff Lane Ave
 City: Atlanta, GA 30114

Requested Project Information:
 Report To: Becky Stever
 Copy To: _____

Invoice Information:
 Attention: _____
 Company Name: _____
 Address: _____
 Phone Order: _____
 Project Manager: kathi.herrington@ge.com
 Phone Profile #: 10640

Order Details:
 Job #: (770) 344-5226
 Fax: _____
 Purchase Order #: _____
 Project Name: Value RS
 Project #: _____
 Requested Due Date: _____

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analytical Test	Residual Chlorine (Y/N)
				START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol		
1	YQWNC-38	WT	G	2/10/21	10:50		4	/	/	/	/	/	/	/	/	92521564
2	YQWNC-39	WT	G	2/9/21	13:50		12	/	/	/	/	/	/	/	/	PH: 5.04
3	YQWNC-41	WT	G	2/10/21	13:25		4	/	/	/	/	/	/	/	/	PH: 4.98
4	YQWNC-42	WT	G	2/10/21	14:30		4	/	/	/	/	/	/	/	/	PH: 5.05
5	YQWNC-43	WT	G	2/9/21	15:30		4	/	/	/	/	/	/	/	/	PH: 5.80
6	YQWNC-235	WT	G	2/10/21	11:10		4	/	/	/	/	/	/	/	/	PH: 5.01

Additional Comments:
 KATHIE HERRINGTON

Sampler Name and Signature:
 KATHERINE PPHLEWICZ

Print Name of Sampler: KATHERINE PPHLEWICZ
Signature of Sampler: [Signature]
Date Signed: 2/9/2021

Received on Ice (Y/N): _____
Custody Sealed (Y/N): _____
Cooler (Y/N): _____
Samples Intact (Y/N): _____



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

Section A
 Client Information:

Company: Georgia Power
 Address: 1070 Bridge Lane Ave
 City: Marietta, GA 30114
 Phone: (770) 994-6525
 Fax: [Blank]
 Project Name: Yales AWA
 Project #: [Blank]

Section B
 Required Project Information:

Report To: Buddy Stever
 Copy To: [Blank]
 Purchase Order #: [Blank]
 Project Name: Yales AWA
 Project #: [Blank]

Section C
 Invoicing Information:

Attention: [Blank]
 Company Name: [Blank]
 Address: [Blank]
 Project Manager: kerin.berry@epscos.com
 Phone Profile #: 102410

SAMPLE ID
 One Character per box
 (A-Z, 0-9, -, /, .)
 Sample IDs must be unique

SAMPLE ID
 YGLSC-49 (020921)

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analytes Test	Residual Chlorine (Y/N)	PH
			START TIME	END TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			
1	WT	G	7/9/15		4K	4K								X		4.2521564
2	WT	G												X		
3	WT	G												X		
4	WT	G												X		
5	WT	G												X		
6	WT	G												X		
7	WT	G												X		
8	WT	G												X		
9	WT	G												X		
10	WT	G												X		
11	WT	G												X		
12	WT	G												X		
13	WT	G												X		
14	WT	G												X		
15	WT	G												X		
16	WT	G												X		
17	WT	G												X		
18	WT	G												X		
19	WT	G												X		
20	WT	G												X		
21	WT	G												X		
22	WT	G												X		
23	WT	G												X		
24	WT	G												X		
25	WT	G												X		
26	WT	G												X		
27	WT	G												X		
28	WT	G												X		
29	WT	G												X		
30	WT	G												X		

PRINT Name of Sample: B. Stever / Metals
DATE SHIPPED: 7/14/15
DATE RECEIVED: 7/15/15
TEMP IN C: [Blank]
 Received on ice (Y/N)
 Custody Sealed Cooler (Y/N)
 Samples intact (Y/N)



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Client Information:
 County: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: Dalton, GA 30714

Section B

Requested Project Information:
 Report To: Booby Stever
 Copy To:

Section C

Invoice Information:
 Attention: Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: heryl.herring@paceanalytical.com
 Pace Profile #: 10840

Purchase Order #:
 Project Name: Yates AMA
 Project #:

Regulatory Agency: State of Georgia
 Status: Open

SAMPLE ID
 One Character per box.
 (A-Z, 0-9, -)

Sample IDs must be unique

MATRIX CODE (see valid codes to left)	DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test	Y/N	Residual Chlorine (Y/N)
	START	END													App IV Metals		
															Fluoride		
															RAD 8315/8320		92521564

ITEM #	MATRIX CODE	SAMPLE TYPE	DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test	Y/N	Residual Chlorine (Y/N)
1	YGMW-41																		
2	YGMW-41																		
3	YGMW-41	YGMW-41-SD	02/10/11	1645			4	4											
4	YGMW-41																		
5	YGMW-41																		
6	YGMW-41																		
7	YGMW-41																		
8	YGMW-41																		
9	YGMW-41																		
10	YGMW-41	YGMW-41-24SA	02/10/11	1610			4	4											
11	YGMW-41	DUP-CR2	02/10/11				4	4											
12	YGMW-41	YGMW-41-36A	02/10/11	1430			4	4											

ADDITIONAL COMMENTS:

REMOVED BY / REVISION:

DATE:

TIME:

ACCEPTED BY / REVISION:

DATE:

TIME:

SAMPLER NAME AND SIGNATURE:

PRINT Name of SAMPLER: Peter Herring

SIGNATURE of SAMPLER: [Signature]

DATE Signed: 02/10/2011

TEMP In C

Received on Ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)

PH = 5.65

PH = 6.31



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
 Client Information:
 Agency: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: Marietta, GA 30114
 Phone: (770) 304-4526
 Fax: [blank]
 Question Date: [blank]

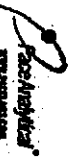
Section B
 Required Project Information:
 Report To: Becky Stever
 Copy To: [blank]
 Purchase Order #: [blank]
 Project Name: Yates AWA-85
 Project #: [blank]

Section C
 Invoice Information:
 Attention: [blank]
 Company Name: [blank]
 Address: [blank]
 City: [blank]
 State: GA
 Zip: [blank]
 Project Manager: Kevin Manning
 Email: kevin.manning@gaep.com
 Phone: (770) 304-4526
 Fax: (770) 304-4526

ITEM #	METHOD	CODE	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES							ANALYSES TEST	Residual Chlorine (Y/N)	Received on (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)
			START DATE	END DATE			H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other						
1	WT	WT				4													
2	WT	WT																	
3	WT	WT																	
4	WT	WT																	
5	WT	WT																	
6	WT	WT																	
7	WT	WT																	
8	WT	WT																	
9	WT	WT																	
10	WT	WT																	
11	WT	WT																	
12	WT	WT																	

Handwritten notes in the table:
 - Item 1: Kate Rokowicz 2-10-21 1512
 - Item 2: Daniel A. Paul 2/10/21 1710

PRINT Name of SAMPLER: Kate Rokowicz
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed: 2-9-2021



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Client Information:

Company: **Gaslight Power**
 Address: **1070 Bridge Mill Ave**
 City: **San Jose, CA 95134**
 Phone: **(408) 499-9226**
 Project #:

Section B

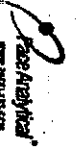
Report To: **Buddy Steiner**
 Copy To:
 Purchase Order #:
 Project Name: **Yates AP-2**
 Project #:

Section C

Invoice Information:
 Attention: **Project Manager**
 Company Name:
 Address:
 Place Order:
 Place Project Manager:
 Price Profile #: **10840**

ITEM #	DESCRIPTION	METHOD	COATED	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES								App IV Metals	Fluoride	RAD 9316/9320	Residual Chlorine (Y/N)															
						START	END	DATE	TIME			DATE	TIME	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3					Methanol	Other	Y	N	Y	N	Y	N							
1	REGULATORY	WT																																				
2	REGULATORY	WT																																				
3	REGULATORY	WT																																				
4	REGULATORY	WT																																				
5	REGULATORY	WT																																				
6	REGULATORY	WT																																				
7	REGULATORY	WT																																				
8	REGULATORY	WT																																				
9	REGULATORY	WT																																				
10	REGULATORY	WT																																				
11	REGULATORY	WT																																				
12	REGULATORY	WT																																				
13	REGULATORY	WT																																				
14	REGULATORY	WT																																				
15	REGULATORY	WT																																				
16	REGULATORY	WT																																				
17	REGULATORY	WT																																				
18	REGULATORY	WT																																				
19	REGULATORY	WT																																				
20	REGULATORY	WT																																				
21	REGULATORY	WT																																				
22	REGULATORY	WT																																				
23	REGULATORY	WT																																				
24	REGULATORY	WT																																				
25	REGULATORY	WT																																				
26	REGULATORY	WT																																				

Preparation of Sample: **ASBESTOS**
 Signature: **ASBESTOS**
 DATE: **2/10/21**



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Client Information: **Georgia Power**
 1070 BRIDGE NEB AVE
 ATLANTA, GA 30114

Requested Project Information: **Becky Stewart**
 Report To: **Becky Stewart**
 Copy To:

Section B

Project Name: **Value Add-RS**
 Project #: **10640**

Section C

Project Address: **10640**
 Project Manager: **Kevin Hentley@gepower.com**
 Project #: **10640**

Regulatory Agency: **GA**

SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyse Test	Y/N	Residual Chlorine (Y/N)	pH
			START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				
YAMM-2	WT		10/20	10/20	4	X											pH = 5.81
YAMM-4	WT		10/20	10/20	4	X											pH = 5.94
YAMM-5	WT		10/20	10/20	4	X											pH = 6.42
YAMM-1	WT		10/20	10/20	4	X											
PRGR	WT																

ADDITIONAL COMMENTS

REQUISITION BY / AFFILIATION: **Becky Stewart** DATE: **10/20/17** TIME: **1710**

ACCEPTED BY / AFFILIATION: **Becky Stewart** DATE: **10/20/17** TIME: **1710**

SAMPLER NAME AND SIGNATURE

PRINT NAME OF SAMPLER: **Peter Hentley**
 SIGNATURE OF SAMPLER: *[Signature]* DATE SIGNED: **10/20/17**

TEMP IN C

Received on ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)



Section A

Required Client Information:
Company: Georgia Power
Address: 1070 Bridge Mill Ave
City: Atlanta, GA 30114

Requested Project Information:
Project Name: Beckly Steamer
Copy To:
Purchase Order #:
Requested Due Date:

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section B
Invoicing Information:
Address:
Company Name:
Personnel:
Phone Number:
Fax:
E-mail:
Project #:

Section C
Invoicing Information:
Address:
Company Name:
Personnel:
Phone Number:
Fax:
E-mail:
Project #:

Page: 2 of 2
0004

ITEM #
SAMPLE ID
One Character per box.
(A-Z, 0-9 / . -)
Sample IDs must be unique

ANALYSIS	CODES	MATRIX CODE	SAMPLE TYPE	DATE	TIME	DATE	TIME
Wt	WT	(see wald codes to left)	(G=GRAB C=COMP)	2-10-15			

COLLECTED

START	END
-------	-----

SAMPLE TEMP AT COLLECTION

# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O5	Methanol	Other
-----------------	-------------	-------	------	-----	------	---------	----------	-------

Analyte Test	Y/N
App IV Metals	
Fluoride	
RAD 8316/8320	

TEMP In C	Received on (at) (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)

DATE	TIME	DATE	TIME	APP IV METALS	FLUORIDE	RAD 8316/8320	Residual Chlorine (Y/N)
2-11-21				X	X	X	PH 5.53

Signature: *[Signature]* Date: 2-11-21

Signature: *[Signature]* Date: 2-11-21

TEMP In C: _____

Received on (at) (Y/N): _____

Custody Sealed (Y/N): _____

Cooler (Y/N): _____

Samples Intact (Y/N): _____



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Client Information:
 Name: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: Marietta, GA 30114
 Phone: (770) 244-5226
 Fax: []
 Requested Date: []

Section B

Requested Project Information:
 Report To: Becky Stever
 Copy To: []
 Purchase Order #: []
 Project Name: Yates RS
 Project #: []

Section C

Invoice Information:
 Address: []
 Company Name: []
 Project Manager: []
 Phone: []

ITEM #	MATERIAL	CODES	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES							ANALYSIS TEST	Residual Chlorine (Y/N)		
					START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			Other	App IV Metals
1	YGMWC-38	WT			2/10/21	10:50		4	/	/	/	/	/	/	/	X	X	X	9252514
2	YGMWC-38	WT			2/10/21	13:50		12	/	/	/	/	/	/	/	X	X	X	PH: 5.04 NS/MSD
3	YGMWC-41	WT			2/10/21	13:25		4	/	/	/	/	/	/	/	X	X	X	PH: 4.98
4	YGMWC-42	WT			2/10/21	14:30		4	/	/	/	/	/	/	/	X	X	X	PH: 5.05
5	YGMWC-43	WT			2/11/21	15:30		4	/	/	/	/	/	/	/	X	X	X	PH: 5.80
6	YGMWC-43	WT			2/10/21	15:30		4	/	/	/	/	/	/	/	X	X	X	PH: 5.01
7	YGMWC-235	WT			2/10/21	11:10		4	/	/	/	/	/	/	/	X	X	X	

Sampler Name and Signature: Katherine Ruppert
 Date: 2/10/21
 Received on Ice (Y/N): Y
 Custody Sealed (Y/N): Y
 Samples Intact (Y/N): Y

Sampler Name and Signature: Katherine Ruppert
 Date Signed: 2/9/2021
 Received on Ice (Y/N): Y
 Custody Sealed (Y/N): Y
 Samples Intact (Y/N): Y



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Required Client Information:
 Agency: Georgia Power
 Street: 1070 Bridge Club Ave
 Room, GA 30114
 Phone: (770)334-5526
 Fax:
 Requested Date Date: Project Name: Yanes AWWA
 Project #:

Required Project Information:
 Report To: Bodey Steever
 Copy To:
 Purchase Order #:
 Project #:

Section C

Invoice Information:
 Attention:
 Company Name:
 Address:
 Phone Operator:
 Phone Project Manager: Kevin.Henry@ge.com
 Phone Profile #: 10940

SAMPLE ID
 One Character per box:
 (A-Z, 0-9 /, -)

Sample IDs must be unique

MATRIX CODE (see valid codes to left)

Drinking Water
 WWT
 Wastewater
 Process Water
 Stormwater
 Other

CWS
 SLS
 SCS
 WPD
 WAD
 Other

Yalco-49 (020921)

ITEM #	DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES										ANALYSES TEST			TEMP In C	Received on IceD (Y/N)	Custody SealedD CoolerD (Y/N)	Samples IntactD (Y/N)													
							Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App IV Metals	Fluoride	RAD 9315/9320																			
WT						4K																														
WT																																				
WT																																				
WT																																				
WT																																				
WT																																				
WT																																				
WT																																				
WT																																				
WT																																				
WT																																				

3 Streams / Resals
 2/16/12
 Pete Dept / J. Parks
 Geneva Plant
 2/16/12
 2/16/12
 2/16/12

PRINT Name of SAMPLER:
 SIGNATURE of SAMPLER:
 DATE Stamp:
 2/16/12

Page: 2 of 3



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Client Information:
 Agency: Georgia Power
 Address: 1070 Bridgeport Ave
 City: Atlanta, GA 30314
 Phone: (770) 334-8226
 Fax: [Blank]
 Requested Date: [Blank]

Project Information:
 Report To: Body Stever
 Copy To: [Blank]
 Project Name: Yates AWA
 Project #: [Blank]

Invoice Information:
 Attention: [Blank]
 Company Name: [Blank]
 Address: [Blank]
 Pace Quote: [Blank]
 Pace Project Manager: helen.werting@pacetest.com
 Pace Profile #: 10840

Section C

Regulatory Agency:
 State / Location: GA

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analytes Test	Residual Chlorine (Y/N)
				START DATE	START TIME	END DATE	END TIME					
1	YGWH-41											
2	YGWH-42											
3	YGWH-43											
4	YGWH-44											
5	YGWH-45											
6	YGWH-46											
7	YGWH-47											
8	YGWH-48											
9	YGWH-49											
10	YGWH-50											
11	YGWH-51											
12	YGWH-52											

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analytes Test	Residual Chlorine (Y/N)
				START DATE	START TIME	END DATE	END TIME					
1	YGWH-41											
2	YGWH-42											
3	YGWH-43											
4	YGWH-44											
5	YGWH-45											
6	YGWH-46											
7	YGWH-47											
8	YGWH-48											
9	YGWH-49											
10	YGWH-50											
11	YGWH-51											
12	YGWH-52											

ADDITIONAL COMMENTS:
 [Blank]

DATE SIGNED: 02/10/2021

SIGNATURE OF SAMPLER: Peter Physick's

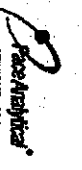
DATE SIGNED: 02/10/2021

TEMP IN C: [Blank]

Received on Ice: (Y/N)

Custody Sealed / Cooler: (Y/N)

Samples Intact: (Y/N)



Station A

Section B Required Project Information:

Client Information:
Company: Georgia Power
Address: 1070 Bridge Mill Ave
City: Marietta, GA 30114
Phone: (770) 394-6536
Fax: [blank]
Requested Date: [blank]

Section C Project Information:

Report To: Becky Stever
Copy To: [blank]
Purchase Order #: YAES AMA-RS
Project Name: [blank]
Address: [blank]
Company Name: [blank]
Person: [blank]
Person Title: [blank]
Person Email: kendra.henning@ge.com
Person Phone: 10040
State: GA

Page: 1 of 3
Per U

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

ITEM #	DESCRIPTION	MATERIAL	CODES	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION		PRESERVATIVES							ANALYSES TEST			Residual Chlorine (Y/N)	Received on Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)											
						START DATE TIME	END DATE TIME	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App IV Metals	Fluoride	RAD 9315/9320																	
1	SAMPLE ID																																		
2																																			
3																																			
4																																			
5																																			
6																																			
7																																			
8																																			
9																																			
10																																			
11																																			
12																																			

Kate Rosewitz/Practic 1021 B12
Shaver Fork 2/10/21/1710

PRINT Name of SAMPLER: Kate Rosewitz
SIGNATURE of SAMPLER: [Signature]
DATE Signed: 2-9-2021

TEMP In C: [blank]
Received on Ice (Y/N): [blank]
Custody Sealed (Y/N): [blank]
Cooler (Y/N): [blank]
Samples Intact (Y/N): [blank]



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
 Client Information:
 Agency: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: Marietta, GA 30114
 Job #: 1770384-5326
 Date: 1/22/2019

Section B
 Requested Project Information:
 Report To: Becky Stever
 Copy To:
 Purchase Order #: YAES AP-2
 Project #: 10940

Section C
 Invoice Information:
 Attention:
 Company Name:
 Address:
 State:
 Zip:
 Project Manager: kathy.beth@ge.com
 Phone: 770-384-5326
 Fax: 770-384-5326

ITEM #	DESCRIPTION	WEIGHT	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES							RAD 6916/69320	Residual Chlorine (Y/N)		
			START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			Other	
1	YGM-A2 (MVA2)	WT	1/22/19		41	1											
2	YGM-A1	WT															
3	YGM-A3	WT															
4	YGM-A4	WT															
5	YGM-A5	WT															
6	YGM-A6	WT															
7	YGM-A7	WT															
8	YGM-A8	WT															
9	YGM-A9	WT															
10	YGM-A10	WT															
11	YGM-A11	WT															
12	YGM-A12	WT															

BS View / Arcs 2/16/19
 Peter Ogden's 2/16/19
 Clark Arcs 2/16/19
 710

Project Name of Sample: _____
 Sample ID of Sample: _____
 DATE: 2/16/19

TEMP in C: _____
 Received on Ice? (Y/N): _____
 Custody Sealed? (Y/N): _____
 Samples Intact? (Y/N): _____

Page: 1 of 3
 loc 4



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Section B

Section C

Required Project Information: Client: Georgia Power Report To: Betsy Shaver Address: 1070 BRIDGE LANE AVE City: ATLANTA, GA 30314		Invoice Information: Attention: Kevin Henning Address: 10840 Page Order: 10840 Page Project Manager: kevin.henning@ge.com Page Profile #: 10840	
Requested Project Information: Report To: Betsy Shaver Project Name: YAES AMARS Project #: Residual Due Date: Date: 7/20/2014 8:52:26 Fax: Project #: Regulatory Agency: State / Location: GA		Purchase Order #: Page Order: Page Project Manager: Page Profile #: Regulatory Agency: State / Location: GA	

SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES							ANALYSIS TEST	Y/N	RESIDUAL CHLORINE (Y/N)	PH
			START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				
YAMM-2	WT		08/01/14	11:45	4	X	X	X	X	X	X	X	X	X	X	X	9.2521583
YAMM-4	WT		08/01/14	10:20	4	X	X	X	X	X	X	X	X	X	X	X	PH = 5.81
YAMM-5	WT		08/01/14	09:15	4	X	X	X	X	X	X	X	X	X	X	X	PH = 5.94
YAMM-1	WT		08/01/14	14:10	4	X	X	X	X	X	X	X	X	X	X	X	PH = 6.42
PR-37	WT																

ADDITIONAL COMMENTS: REB QUALIFIED BY/AFFILIATION: DATE: TIME: ACCEPTED BY/AFFILIATION: DATE: TIME: SAMPLE CONDITIONS: Received on Ice <input type="checkbox"/> (Y/N) Custody Sealed <input type="checkbox"/> Cooler <input type="checkbox"/> (Y/N) Samples Intact <input type="checkbox"/> (Y/N)		SAMPLER NAME AND SIGNATURE: PRINT Name of SAMPLER: Peter Anagnostis SIGNATURE OF SAMPLER: DATE Signed: 02/10/14	
--	--	---	--

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92521574	YGWC-41	6020	Lead	0.005	mg/L	UB	EB Contamination
	YGWC-42	6020	Lead	0.005	mg/L	UB	EB Contamination
	YGWC-36A	6020	Lead	0.005	mg/L	UB	EB Contamination
92521564	No Qualifiers Added						
92521572	No Qualifiers Added						
92521583	No Qualifiers Added						

Abbreviations:

mg/L = milligrams per liter

Qualifiers:

UB = not detected due to blank contamination

J/UJ = Estimated

February 23, 2021

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

RE: Project: YATES R6/AMA
Pace Project No.: 92521574

Dear Ms. Petty:

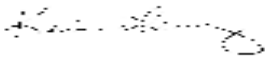
Enclosed are the analytical results for sample(s) received by the laboratory on February 10, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise 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,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Samantha Thomas
Maribel Vital



REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: YATES R6/AMA

Pace Project No.: 92521574

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: YATES R6/AMA

Pace Project No.: 92521574

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92521574001	YGWC-38 (020921)	Water	02/09/21 13:50	02/10/21 17:10
92521574002	YGWC-41 (021021)	Water	02/10/21 13:25	02/10/21 17:10
92521574003	YGWC-42 (021021)	Water	02/10/21 14:30	02/10/21 17:10
92521574004	YGWC-43 (020921)	Water	02/09/21 15:30	02/10/21 17:10
92521574005	EB-01(021021)	Water	02/10/21 13:30	02/10/21 17:10
92521574006	YGWC-23S (020921)	Water	02/09/21 11:10	02/10/21 17:10
92521574007	YGWC-49(020921)	Water	02/09/21 15:15	02/10/21 17:10
92521574008	YGWC-24SA (020921)	Water	02/09/21 16:10	02/10/21 17:10
92521574009	DUP-02 (020921)	Water	02/09/21 00:00	02/10/21 17:10
92521574010	YGWC-36A (021021)	Water	02/10/21 14:30	02/10/21 17:10

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: YATES R6/AMA
Pace Project No.: 92521574

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92521574001	YGWC-38 (020921)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521574002	YGWC-41 (021021)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521574003	YGWC-42 (021021)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521574004	YGWC-43 (020921)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521574005	EB-01(021021)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521574006	YGWC-23S (020921)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521574007	YGWC-49(020921)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521574008	YGWC-24SA (020921)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521574009	DUP-02 (020921)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521574010	YGWC-36A (021021)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1

PASI-A = Pace Analytical Services - Asheville
PASI-C = Pace Analytical Services - Charlotte
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES R6/AMA

Pace Project No.: 92521574

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92521574001	YGWC-38 (020921)					
	Performed by	CUSTOMER			02/23/21 08:10	
	pH	5.04	Std. Units		02/23/21 08:10	
EPA 6020B	Antimony	0.00031J	mg/L	0.0030	02/18/21 19:41	
EPA 6020B	Arsenic	0.00098J	mg/L	0.0050	02/18/21 19:41	
EPA 6020B	Barium	0.016	mg/L	0.010	02/18/21 19:41	
EPA 6020B	Beryllium	0.0029J	mg/L	0.0030	02/18/21 19:41	
EPA 6020B	Cadmium	0.0014J	mg/L	0.0025	02/18/21 19:41	
EPA 6020B	Lithium	0.0067J	mg/L	0.030	02/18/21 19:41	
EPA 6020B	Selenium	0.073	mg/L	0.010	02/18/21 19:41	
92521574002	YGWC-41 (021021)					
	Performed by	CUSTOMER			02/23/21 08:10	
	pH	4.98	Std. Units		02/23/21 08:10	
EPA 6020B	Antimony	0.0014J	mg/L	0.0030	02/18/21 20:03	
EPA 6020B	Barium	0.017	mg/L	0.010	02/18/21 20:03	
EPA 6020B	Beryllium	0.0015J	mg/L	0.0030	02/18/21 20:03	
EPA 6020B	Lead	0.00020J	mg/L	0.0050	02/18/21 20:03	
EPA 6020B	Lithium	0.0021J	mg/L	0.030	02/18/21 20:03	
EPA 6020B	Selenium	0.033	mg/L	0.010	02/18/21 20:03	
92521574003	YGWC-42 (021021)					
	Performed by	CUSTOMER			02/23/21 08:10	
	pH	5.65	Std. Units		02/23/21 08:10	
EPA 6020B	Antimony	0.00053J	mg/L	0.0030	02/18/21 20:09	
EPA 6020B	Arsenic	0.0016J	mg/L	0.0050	02/18/21 20:09	
EPA 6020B	Barium	0.031	mg/L	0.010	02/18/21 20:09	
EPA 6020B	Beryllium	0.000057J	mg/L	0.0030	02/18/21 20:09	
EPA 6020B	Cobalt	0.0019J	mg/L	0.0050	02/18/21 20:09	
EPA 6020B	Lead	0.000054J	mg/L	0.0050	02/18/21 20:09	
EPA 6020B	Lithium	0.058	mg/L	0.030	02/18/21 20:09	
EPA 6020B	Molybdenum	0.00094J	mg/L	0.010	02/18/21 20:09	
EPA 6020B	Selenium	0.043	mg/L	0.010	02/18/21 20:09	
92521574004	YGWC-43 (020921)					
	Performed by	CUSTOMER			02/23/21 08:10	
	pH	5.86	Std. Units		02/23/21 08:10	
EPA 6020B	Barium	0.041	mg/L	0.010	02/18/21 20:15	
EPA 6020B	Beryllium	0.00053J	mg/L	0.0030	02/18/21 20:15	
EPA 6020B	Cobalt	0.0017J	mg/L	0.0050	02/18/21 20:15	
EPA 6020B	Lithium	0.024J	mg/L	0.030	02/18/21 20:15	
EPA 6020B	Molybdenum	0.0012J	mg/L	0.010	02/18/21 20:15	
EPA 300.0 Rev 2.1 1993	Fluoride	0.058J	mg/L	0.10	02/12/21 19:04	
92521574005	EB-01(021021)					
EPA 6020B	Lead	0.00055J	mg/L	0.0050	02/18/21 20:21	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES R6/AMA

Pace Project No.: 92521574

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92521574006	YGWC-23S (020921)					
	Performed by	CUSTOMER			02/23/21 08:10	
	pH	5.61	Std. Units		02/23/21 08:10	
EPA 6020B	Antimony	0.00052J	mg/L	0.0030	02/18/21 20:38	
EPA 6020B	Barium	0.042	mg/L	0.010	02/18/21 20:38	
EPA 6020B	Beryllium	0.00015J	mg/L	0.0030	02/18/21 20:38	
EPA 6020B	Chromium	0.00086J	mg/L	0.010	02/18/21 20:38	
EPA 6020B	Lithium	0.0026J	mg/L	0.030	02/18/21 20:38	
EPA 6020B	Selenium	0.032	mg/L	0.010	02/18/21 20:38	
EPA 7470A	Mercury	0.00015J	mg/L	0.00050	02/16/21 11:06	
92521574007	YGWC-49(020921)					
	Performed by	CUSTOMER			02/23/21 08:10	
	pH	5.79	Std. Units		02/23/21 08:10	
EPA 6020B	Barium	0.071	mg/L	0.010	02/18/21 20:44	
EPA 6020B	Beryllium	0.00013J	mg/L	0.0030	02/18/21 20:44	
EPA 6020B	Chromium	0.0020J	mg/L	0.010	02/18/21 20:44	
EPA 6020B	Lithium	0.0038J	mg/L	0.030	02/18/21 20:44	
EPA 6020B	Selenium	0.0079J	mg/L	0.010	02/18/21 20:44	
EPA 7470A	Mercury	0.00014J	mg/L	0.00050	02/16/21 11:09	
92521574008	YGWC-24SA (020921)					
	Performed by	CUSTOMER			02/23/21 08:10	
	pH	5.69	Std. Units		02/23/21 08:10	
EPA 6020B	Barium	0.031	mg/L	0.010	02/18/21 20:49	
EPA 6020B	Beryllium	0.00013J	mg/L	0.0030	02/18/21 20:49	
EPA 6020B	Chromium	0.0011J	mg/L	0.010	02/18/21 20:49	
EPA 6020B	Lead	0.00036J	mg/L	0.0050	02/18/21 20:49	
92521574009	DUP-02 (020921)					
EPA 6020B	Barium	0.030	mg/L	0.010	02/18/21 20:55	
EPA 6020B	Beryllium	0.00014J	mg/L	0.0030	02/18/21 20:55	
EPA 6020B	Chromium	0.0013J	mg/L	0.010	02/18/21 20:55	
EPA 6020B	Lead	0.00036J	mg/L	0.0050	02/18/21 20:55	
92521574010	YGWC-36A (021021)					
	Performed by	CUSTOMER			02/23/21 08:10	
	pH	6.31	Std. Units		02/23/21 08:10	
EPA 6020B	Antimony	0.028	mg/L	0.0030	02/18/21 21:01	
EPA 6020B	Arsenic	0.00088J	mg/L	0.0050	02/18/21 21:01	
EPA 6020B	Barium	0.035	mg/L	0.010	02/18/21 21:01	
EPA 6020B	Beryllium	0.000099J	mg/L	0.0030	02/18/21 21:01	
EPA 6020B	Chromium	0.00094J	mg/L	0.010	02/18/21 21:01	
EPA 6020B	Cobalt	0.00038J	mg/L	0.0050	02/18/21 21:01	
EPA 6020B	Lead	0.00051J	mg/L	0.0050	02/18/21 21:01	
EPA 6020B	Lithium	0.0011J	mg/L	0.030	02/18/21 21:01	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES R6/AMA

Pace Project No.: 92521574

Sample: YGWC-38 (020921) **Lab ID: 92521574001** Collected: 02/09/21 13:50 Received: 02/10/21 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/23/21 08:10		
pH	5.04	Std. Units			1		02/23/21 08:10		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00031J	mg/L	0.0030	0.00028	1	02/17/21 09:52	02/18/21 19:41	7440-36-0	
Arsenic	0.00098J	mg/L	0.0050	0.00078	1	02/17/21 09:52	02/18/21 19:41	7440-38-2	
Barium	0.016	mg/L	0.010	0.00071	1	02/17/21 09:52	02/18/21 19:41	7440-39-3	
Beryllium	0.0029J	mg/L	0.0030	0.000046	1	02/17/21 09:52	02/18/21 19:41	7440-41-7	
Cadmium	0.0014J	mg/L	0.0025	0.00012	1	02/17/21 09:52	02/18/21 19:41	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 09:52	02/18/21 19:41	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 09:52	02/18/21 19:41	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 09:52	02/18/21 19:41	7439-92-1	
Lithium	0.0067J	mg/L	0.030	0.00081	1	02/17/21 09:52	02/18/21 19:41	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 09:52	02/18/21 19:41	7439-98-7	
Selenium	0.073	mg/L	0.010	0.0016	1	02/17/21 09:52	02/18/21 19:41	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 09:52	02/18/21 19:41	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 10:43	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 17:08	16984-48-8	M1

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES R6/AMA
Pace Project No.: 92521574

Sample: YGWC-41 (021021) Lab ID: 92521574002 Collected: 02/10/21 13:25 Received: 02/10/21 17:10 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/23/21 08:10		
pH	4.98	Std. Units			1		02/23/21 08:10		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0014J	mg/L	0.0030	0.00028	1	02/17/21 09:52	02/18/21 20:03	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 09:52	02/18/21 20:03	7440-38-2	
Barium	0.017	mg/L	0.010	0.00071	1	02/17/21 09:52	02/18/21 20:03	7440-39-3	
Beryllium	0.0015J	mg/L	0.0030	0.000046	1	02/17/21 09:52	02/18/21 20:03	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 09:52	02/18/21 20:03	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 09:52	02/18/21 20:03	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 09:52	02/18/21 20:03	7440-48-4	
Lead	0.00020J	mg/L	0.0050	0.000036	1	02/17/21 09:52	02/18/21 20:03	7439-92-1	
Lithium	0.0021J	mg/L	0.030	0.00081	1	02/17/21 09:52	02/18/21 20:03	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 09:52	02/18/21 20:03	7439-98-7	
Selenium	0.033	mg/L	0.010	0.0016	1	02/17/21 09:52	02/18/21 20:03	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 09:52	02/18/21 20:03	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 10:57	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 17:51	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES R6/AMA
Pace Project No.: 92521574

Sample: YGWC-42 (021021) Lab ID: 92521574003 Collected: 02/10/21 14:30 Received: 02/10/21 17:10 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/23/21 08:10		
pH	5.65	Std. Units			1		02/23/21 08:10		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00053J	mg/L	0.0030	0.00028	1	02/17/21 09:52	02/18/21 20:09	7440-36-0	
Arsenic	0.0016J	mg/L	0.0050	0.00078	1	02/17/21 09:52	02/18/21 20:09	7440-38-2	
Barium	0.031	mg/L	0.010	0.00071	1	02/17/21 09:52	02/18/21 20:09	7440-39-3	
Beryllium	0.000057J	mg/L	0.0030	0.000046	1	02/17/21 09:52	02/18/21 20:09	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 09:52	02/18/21 20:09	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 09:52	02/18/21 20:09	7440-47-3	
Cobalt	0.0019J	mg/L	0.0050	0.00038	1	02/17/21 09:52	02/18/21 20:09	7440-48-4	
Lead	0.000054J	mg/L	0.0050	0.000036	1	02/17/21 09:52	02/18/21 20:09	7439-92-1	
Lithium	0.058	mg/L	0.030	0.00081	1	02/17/21 09:52	02/18/21 20:09	7439-93-2	
Molybdenum	0.00094J	mg/L	0.010	0.00069	1	02/17/21 09:52	02/18/21 20:09	7439-98-7	
Selenium	0.043	mg/L	0.010	0.0016	1	02/17/21 09:52	02/18/21 20:09	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 09:52	02/18/21 20:09	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 10:59	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 18:49	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES R6/AMA
Pace Project No.: 92521574

Sample: YGWC-43 (020921) **Lab ID: 92521574004** Collected: 02/09/21 15:30 Received: 02/10/21 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/23/21 08:10		
pH	5.86	Std. Units			1		02/23/21 08:10		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 09:52	02/18/21 20:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 09:52	02/18/21 20:15	7440-38-2	
Barium	0.041	mg/L	0.010	0.00071	1	02/17/21 09:52	02/18/21 20:15	7440-39-3	
Beryllium	0.00053J	mg/L	0.0030	0.000046	1	02/17/21 09:52	02/18/21 20:15	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 09:52	02/18/21 20:15	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 09:52	02/18/21 20:15	7440-47-3	
Cobalt	0.0017J	mg/L	0.0050	0.00038	1	02/17/21 09:52	02/18/21 20:15	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 09:52	02/18/21 20:15	7439-92-1	
Lithium	0.024J	mg/L	0.030	0.00081	1	02/17/21 09:52	02/18/21 20:15	7439-93-2	
Molybdenum	0.0012J	mg/L	0.010	0.00069	1	02/17/21 09:52	02/18/21 20:15	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 09:52	02/18/21 20:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 09:52	02/18/21 20:15	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 11:02	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	0.058J	mg/L	0.10	0.050	1		02/12/21 19:04	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES R6/AMA
Pace Project No.: 92521574

Sample: EB-01(021021) Lab ID: 92521574005 Collected: 02/10/21 13:30 Received: 02/10/21 17:10 Matrix: Water										
Parameters	Results	Units	Report Limit		MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS										
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA										
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 09:52	02/18/21 20:21	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 09:52	02/18/21 20:21	7440-38-2		
Barium	ND	mg/L	0.010	0.00071	1	02/17/21 09:52	02/18/21 20:21	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000046	1	02/17/21 09:52	02/18/21 20:21	7440-41-7		
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 09:52	02/18/21 20:21	7440-43-9		
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 09:52	02/18/21 20:21	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 09:52	02/18/21 20:21	7440-48-4		
Lead	0.00055J	mg/L	0.0050	0.000036	1	02/17/21 09:52	02/18/21 20:21	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	02/17/21 09:52	02/18/21 20:21	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 09:52	02/18/21 20:21	7439-98-7		
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 09:52	02/18/21 20:21	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 09:52	02/18/21 20:21	7440-28-0		
7470 Mercury										
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA										
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 11:04	7439-97-6		
300.0 IC Anions 28 Days										
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville										
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 19:18	16984-48-8		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES R6/AMA
Pace Project No.: 92521574

Sample: YGWC-23S (020921) **Lab ID: 92521574006** Collected: 02/09/21 11:10 Received: 02/10/21 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/23/21 08:10		
pH	5.61	Std. Units			1		02/23/21 08:10		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00052J	mg/L	0.0030	0.00028	1	02/17/21 09:52	02/18/21 20:38	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 09:52	02/18/21 20:38	7440-38-2	
Barium	0.042	mg/L	0.010	0.00071	1	02/17/21 09:52	02/18/21 20:38	7440-39-3	
Beryllium	0.00015J	mg/L	0.0030	0.000046	1	02/17/21 09:52	02/18/21 20:38	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 09:52	02/18/21 20:38	7440-43-9	
Chromium	0.00086J	mg/L	0.010	0.00055	1	02/17/21 09:52	02/18/21 20:38	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 09:52	02/18/21 20:38	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 09:52	02/18/21 20:38	7439-92-1	
Lithium	0.0026J	mg/L	0.030	0.00081	1	02/17/21 09:52	02/18/21 20:38	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 09:52	02/18/21 20:38	7439-98-7	
Selenium	0.032	mg/L	0.010	0.0016	1	02/17/21 09:52	02/18/21 20:38	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 09:52	02/18/21 20:38	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00015J	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 11:06	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 19:33	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES R6/AMA
Pace Project No.: 92521574

Sample: YGWC-49(020921) **Lab ID: 92521574007** Collected: 02/09/21 15:15 Received: 02/10/21 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/23/21 08:10		
pH	5.79	Std. Units			1		02/23/21 08:10		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 09:52	02/18/21 20:44	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 09:52	02/18/21 20:44	7440-38-2	
Barium	0.071	mg/L	0.010	0.00071	1	02/17/21 09:52	02/18/21 20:44	7440-39-3	
Beryllium	0.00013J	mg/L	0.0030	0.000046	1	02/17/21 09:52	02/18/21 20:44	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 09:52	02/18/21 20:44	7440-43-9	
Chromium	0.0020J	mg/L	0.010	0.00055	1	02/17/21 09:52	02/18/21 20:44	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 09:52	02/18/21 20:44	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 09:52	02/18/21 20:44	7439-92-1	
Lithium	0.0038J	mg/L	0.030	0.00081	1	02/17/21 09:52	02/18/21 20:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 09:52	02/18/21 20:44	7439-98-7	
Selenium	0.0079J	mg/L	0.010	0.0016	1	02/17/21 09:52	02/18/21 20:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 09:52	02/18/21 20:44	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	0.00014J	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 11:09	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 19:47	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES R6/AMA
Pace Project No.: 92521574

Sample: YGWC-24SA (020921) **Lab ID: 92521574008** Collected: 02/09/21 16:10 Received: 02/10/21 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/23/21 08:10		
pH	5.69	Std. Units			1		02/23/21 08:10		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 09:52	02/18/21 20:49	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 09:52	02/18/21 20:49	7440-38-2	
Barium	0.031	mg/L	0.010	0.00071	1	02/17/21 09:52	02/18/21 20:49	7440-39-3	
Beryllium	0.00013J	mg/L	0.0030	0.000046	1	02/17/21 09:52	02/18/21 20:49	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 09:52	02/18/21 20:49	7440-43-9	
Chromium	0.0011J	mg/L	0.010	0.00055	1	02/17/21 09:52	02/18/21 20:49	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 09:52	02/18/21 20:49	7440-48-4	
Lead	0.00036J	mg/L	0.0050	0.000036	1	02/17/21 09:52	02/18/21 20:49	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/17/21 09:52	02/18/21 20:49	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 09:52	02/18/21 20:49	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 09:52	02/18/21 20:49	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 09:52	02/18/21 20:49	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 11:11	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 20:01	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES R6/AMA

Pace Project No.: 92521574

Sample: DUP-02 (020921) Lab ID: 92521574009 Collected: 02/09/21 00:00 Received: 02/10/21 17:10 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 09:52	02/18/21 20:55	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 09:52	02/18/21 20:55	7440-38-2	
Barium	0.030	mg/L	0.010	0.00071	1	02/17/21 09:52	02/18/21 20:55	7440-39-3	
Beryllium	0.00014J	mg/L	0.0030	0.000046	1	02/17/21 09:52	02/18/21 20:55	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 09:52	02/18/21 20:55	7440-43-9	
Chromium	0.0013J	mg/L	0.010	0.00055	1	02/17/21 09:52	02/18/21 20:55	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 09:52	02/18/21 20:55	7440-48-4	
Lead	0.00036J	mg/L	0.0050	0.000036	1	02/17/21 09:52	02/18/21 20:55	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/17/21 09:52	02/18/21 20:55	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 09:52	02/18/21 20:55	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 09:52	02/18/21 20:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 09:52	02/18/21 20:55	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 11:18	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 20:45	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES R6/AMA
Pace Project No.: 92521574

Sample: YGWC-36A (021021) **Lab ID: 92521574010** Collected: 02/10/21 14:30 Received: 02/10/21 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/23/21 08:10		
pH	6.31	Std. Units			1		02/23/21 08:10		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.028	mg/L	0.0030	0.00028	1	02/17/21 09:52	02/18/21 21:01	7440-36-0	
Arsenic	0.00088J	mg/L	0.0050	0.00078	1	02/17/21 09:52	02/18/21 21:01	7440-38-2	
Barium	0.035	mg/L	0.010	0.00071	1	02/17/21 09:52	02/18/21 21:01	7440-39-3	
Beryllium	0.00099J	mg/L	0.0030	0.000046	1	02/17/21 09:52	02/18/21 21:01	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 09:52	02/18/21 21:01	7440-43-9	
Chromium	0.00094J	mg/L	0.010	0.00055	1	02/17/21 09:52	02/18/21 21:01	7440-47-3	
Cobalt	0.00038J	mg/L	0.0050	0.00038	1	02/17/21 09:52	02/18/21 21:01	7440-48-4	
Lead	0.00051J	mg/L	0.0050	0.000036	1	02/17/21 09:52	02/18/21 21:01	7439-92-1	
Lithium	0.0011J	mg/L	0.030	0.00081	1	02/17/21 09:52	02/18/21 21:01	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 09:52	02/18/21 21:01	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 09:52	02/18/21 21:01	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 09:52	02/18/21 21:01	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 11:21	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 21:57	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES R6/AMA
Pace Project No.: 92521574

QC Batch: 600602 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92521574001, 92521574002, 92521574003, 92521574004, 92521574005, 92521574006, 92521574007, 92521574008, 92521574009, 92521574010

METHOD BLANK: 3165498 Matrix: Water
Associated Lab Samples: 92521574001, 92521574002, 92521574003, 92521574004, 92521574005, 92521574006, 92521574007, 92521574008, 92521574009, 92521574010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	02/18/21 19:29	
Arsenic	mg/L	ND	0.0050	0.00078	02/18/21 19:29	
Barium	mg/L	ND	0.010	0.00071	02/18/21 19:29	
Beryllium	mg/L	ND	0.0030	0.000046	02/18/21 19:29	
Cadmium	mg/L	ND	0.0025	0.00012	02/18/21 19:29	
Chromium	mg/L	ND	0.010	0.00055	02/18/21 19:29	
Cobalt	mg/L	ND	0.0050	0.00038	02/18/21 19:29	
Lead	mg/L	ND	0.0050	0.000036	02/18/21 19:29	
Lithium	mg/L	ND	0.030	0.00081	02/18/21 19:29	
Molybdenum	mg/L	ND	0.010	0.00069	02/18/21 19:29	
Selenium	mg/L	ND	0.010	0.0016	02/18/21 19:29	
Thallium	mg/L	ND	0.0010	0.00014	02/18/21 19:29	

LABORATORY CONTROL SAMPLE: 3165499

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	101	80-120	
Arsenic	mg/L	0.1	0.093	93	80-120	
Barium	mg/L	0.1	0.094	94	80-120	
Beryllium	mg/L	0.1	0.092	92	80-120	
Cadmium	mg/L	0.1	0.091	91	80-120	
Chromium	mg/L	0.1	0.093	93	80-120	
Cobalt	mg/L	0.1	0.093	93	80-120	
Lead	mg/L	0.1	0.094	94	80-120	
Lithium	mg/L	0.1	0.093	93	80-120	
Molybdenum	mg/L	0.1	0.093	93	80-120	
Selenium	mg/L	0.1	0.090	90	80-120	
Thallium	mg/L	0.1	0.091	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3165500 3165501

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Spike Conc.	Result	Result								
Antimony	mg/L	0.00031J	0.1	0.1	0.11	0.10	109	102	75-125	6	20		
Arsenic	mg/L	0.00098J	0.1	0.1	0.10	0.10	101	100	75-125	1	20		
Barium	mg/L	0.016	0.1	0.1	0.11	0.11	99	94	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

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

QUALITY CONTROL DATA

Project: YATES R6/AMA

Pace Project No.: 92521574

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3165500												3165501	
Parameter	Units	92521574001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max	Qual	
			Spike Conc.	Spike Conc.							RPD		
Beryllium	mg/L	0.0029J	0.1	0.1	0.092	0.089	89	86	75-125	3	20		
Cadmium	mg/L	0.0014J	0.1	0.1	0.096	0.096	95	95	75-125	0	20		
Chromium	mg/L	ND	0.1	0.1	0.098	0.098	98	98	75-125	0	20		
Cobalt	mg/L	ND	0.1	0.1	0.095	0.097	95	97	75-125	2	20		
Lead	mg/L	ND	0.1	0.1	0.093	0.091	93	91	75-125	2	20		
Lithium	mg/L	0.0067J	0.1	0.1	0.098	0.094	91	87	75-125	4	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.099	101	99	75-125	3	20		
Selenium	mg/L	0.073	0.1	0.1	0.17	0.17	94	94	75-125	0	20		
Thallium	mg/L	ND	0.1	0.1	0.092	0.091	92	91	75-125	1	20		

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES R6/AMA
Pace Project No.: 92521574

QC Batch:	600020	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92521574001, 92521574002, 92521574003, 92521574004, 92521574005, 92521574006, 92521574007, 92521574008, 92521574009, 92521574010

METHOD BLANK: 3163226 Matrix: Water
Associated Lab Samples: 92521574001, 92521574002, 92521574003, 92521574004, 92521574005, 92521574006, 92521574007, 92521574008, 92521574009, 92521574010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000078	02/16/21 10:21	

LABORATORY CONTROL SAMPLE: 3163227

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3163228 3163229

Parameter	Units	92521574001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0025	96	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.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES R6/AMA
Pace Project No.: 92521574

QC Batch: 599653 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: 92521574001, 92521574002, 92521574003, 92521574004, 92521574005, 92521574006, 92521574007, 92521574008

METHOD BLANK: 3161218 Matrix: Water
Associated Lab Samples: 92521574001, 92521574002, 92521574003, 92521574004, 92521574005, 92521574006, 92521574007, 92521574008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	02/12/21 12:49	

LABORATORY CONTROL SAMPLE: 3161219

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.7	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3161220 3161221

Parameter	Units	92521478001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	ND	2.5	2.5	2.8	2.7	109	104	90-110	5	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3161241 3161242

Parameter	Units	92521574001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	ND	2.5	2.5	3.7	3.6	146	142	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.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES R6/AMA
Pace Project No.: 92521574

QC Batch: 599663 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: 92521574009, 92521574010

METHOD BLANK: 3161251 Matrix: Water
Associated Lab Samples: 92521574009, 92521574010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	02/12/21 20:16	

LABORATORY CONTROL SAMPLE: 3161252

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.6	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3161253 3161254

Parameter	Units	92521574009		3161254		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.							
Fluoride	mg/L	ND	2.5	2.5	2.7	2.7	109	108	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3161255 3161256

Parameter	Units	92521581005		3161256		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.							
Fluoride	mg/L	ND	2.5	2.5	2.5	2.7	100	108	90-110	8	10	

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: YATES R6/AMA

Pace Project No.: 92521574

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.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

REPORT OF LABORATORY ANALYSIS

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


QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES R6/AMA
Pace Project No.: 92521574

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92521574001	YGWC-38 (020921)				
92521574002	YGWC-41 (021021)				
92521574003	YGWC-42 (021021)				
92521574004	YGWC-43 (020921)				
92521574006	YGWC-23S (020921)				
92521574007	YGWC-49(020921)				
92521574008	YGWC-24SA (020921)				
92521574010	YGWC-36A (021021)				
92521574001	YGWC-38 (020921)	EPA 3005A	600602	EPA 6020B	600714
92521574002	YGWC-41 (021021)	EPA 3005A	600602	EPA 6020B	600714
92521574003	YGWC-42 (021021)	EPA 3005A	600602	EPA 6020B	600714
92521574004	YGWC-43 (020921)	EPA 3005A	600602	EPA 6020B	600714
92521574005	EB-01(021021)	EPA 3005A	600602	EPA 6020B	600714
92521574006	YGWC-23S (020921)	EPA 3005A	600602	EPA 6020B	600714
92521574007	YGWC-49(020921)	EPA 3005A	600602	EPA 6020B	600714
92521574008	YGWC-24SA (020921)	EPA 3005A	600602	EPA 6020B	600714
92521574009	DUP-02 (020921)	EPA 3005A	600602	EPA 6020B	600714
92521574010	YGWC-36A (021021)	EPA 3005A	600602	EPA 6020B	600714
92521574001	YGWC-38 (020921)	EPA 7470A	600020	EPA 7470A	600225
92521574002	YGWC-41 (021021)	EPA 7470A	600020	EPA 7470A	600225
92521574003	YGWC-42 (021021)	EPA 7470A	600020	EPA 7470A	600225
92521574004	YGWC-43 (020921)	EPA 7470A	600020	EPA 7470A	600225
92521574005	EB-01(021021)	EPA 7470A	600020	EPA 7470A	600225
92521574006	YGWC-23S (020921)	EPA 7470A	600020	EPA 7470A	600225
92521574007	YGWC-49(020921)	EPA 7470A	600020	EPA 7470A	600225
92521574008	YGWC-24SA (020921)	EPA 7470A	600020	EPA 7470A	600225
92521574009	DUP-02 (020921)	EPA 7470A	600020	EPA 7470A	600225
92521574010	YGWC-36A (021021)	EPA 7470A	600020	EPA 7470A	600225
92521574001	YGWC-38 (020921)	EPA 300.0 Rev 2.1 1993	599653		
92521574002	YGWC-41 (021021)	EPA 300.0 Rev 2.1 1993	599653		
92521574003	YGWC-42 (021021)	EPA 300.0 Rev 2.1 1993	599653		
92521574004	YGWC-43 (020921)	EPA 300.0 Rev 2.1 1993	599653		
92521574005	EB-01(021021)	EPA 300.0 Rev 2.1 1993	599653		
92521574006	YGWC-23S (020921)	EPA 300.0 Rev 2.1 1993	599653		
92521574007	YGWC-49(020921)	EPA 300.0 Rev 2.1 1993	599653		
92521574008	YGWC-24SA (020921)	EPA 300.0 Rev 2.1 1993	599653		
92521574009	DUP-02 (020921)	EPA 300.0 Rev 2.1 1993	599663		
92521574010	YGWC-36A (021021)	EPA 300.0 Rev 2.1 1993	599663		

REPORT OF LABORATORY ANALYSIS

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

	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.07	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt: _____ Client Name: G.A. Power Project #: **WO# : 92521574**

Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer: IR Gun ID: 230 Type of Ice: Wet Blue None

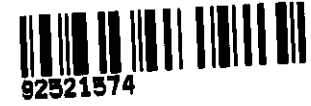
Cooler Temp: 24 Correction Factor: Add/Subtract (°C) 0.0 Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 24

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No



Date/Initials Person Examining Contents: 2/10/21

	Comments/Discrepancy:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A -Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <u>W</u>	
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
 Client Information:
 Company: Georgia Power
 Address: 1070 Bridges Mill Ave
 City: Mon, GA 30114

Section B
 Requested Project Information:
 Report To: Rocky Stever
 Copy To:

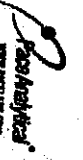
Section C
 Invoice Information:
 Validation:
 Company Name:
 Address:
 Phone Order:
 Project Manager:
 Phone Profile #:

Job #: 070124-526 Fax: _____
 Requested Due Date: _____
 Purchase Order #: _____
 Project Name: Yates RS
 Project #: _____
 Address: _____
 Phone Order: _____
 Project Manager: herik.bentley@ge.com
 Phone Profile #: 10940
 Regulatory Agency: _____
 State: GA

ITEM #	MATERIAL	CODES	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							ANALYSIS TEST	Residual Chlorine (Y/N)
					START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol		
1	YGMWC-38	WT		G-GRAB	2/10/21	1050		4	/	/	/	/	/	/	/	X	9252514
2	YGMWC-38	WT		G-GRAB	2/10/21	1350		12	/	/	/	/	/	/	/	X	PH: 5.04 NS/MSD
3	YGMWC-41	WT		G-GRAB	2/10/21	1325		4	/	/	/	/	/	/	/	X	PH: 4.98
4	YGMWC-42	WT		G-GRAB	2/10/21	1430		4	/	/	/	/	/	/	/	X	PH: 5.05
5	YGMWC-43	WT		G-GRAB	2/11/21	1530		4	/	/	/	/	/	/	/	X	PH: 5.80
6	YGMWC-43	WT		G-GRAB	2/10/21	1530		4	/	/	/	/	/	/	/	X	-
7	YGMWC-235	WT		G-GRAB	2/10/21	1110		4	/	/	/	/	/	/	/	X	PH: 5.01

SAMPLED BY: Katie Rappawitz DATE: 2-10-21 1512
 COLLECTED BY: Clark Hunt DATE: 2/10/21 1710

SAMPLER NAME AND SIGNATURE: Katherine Rappawitz
 PRINT Name of SAMPLER: Katherine Rappawitz
 SIGNATURE of SAMPLER: [Signature] DATE Signed: 2/9/2021
 TEMP in C: _____
 Received on Ice (Y/N)
 Custody Sealed Cooler (Y/N)
 Samples Intact (Y/N)



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Request Client Information:

Company: Georgia Power
Address: 1070 Bridge Way Ave
City: Marietta, GA 30114

Section B
Request Project Information:

Report To: Buddy Stever
Copy To:
Purchase Order #: YATES AUMA
Project Name: YATES AUMA
Project #:
Requested Date: 1/27/03
Phone: (770)334-5526
Fax:

Section C
Invoice Information:

Attention:
Company Name:
Address:
Phone Order:
Phone Project Manager: kevin.harrington@ge.com
Phone Profile #: 109410

SAMPLE ID
One Character per box.
(A-Z, 0-9, -, .)
Sample IDs must be unique

MATRIX CODE (see valid codes to left)
SAMPLE TYPE (G=GRAB C=COMP)
DATE TIME DATE TIME
START END
COLLECTED

Yates-49 (020921)

2/9/03

4K
K

App IV Metals
Fluoride
RAD 9315/9320

Residual Chlorine (Y/N)
ASL1574
PH 5.79

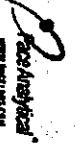
ITEM #	MATRIX CODE	SAMPLE TYPE	DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App IV Metals	Fluoride	RAD 9315/9320	Residual Chlorine (Y/N)
1		WT															X	X	X	
2		WT															X	X	X	
3		WT															X	X	X	
4		WT															X	X	X	
5		WT															X	X	X	
6		WT															X	X	X	
7		WT															X	X	X	
8		WT															X	X	X	
9		WT															X	X	X	
10		WT															X	X	X	
11		WT															X	X	X	
12		WT															X	X	X	
13		WT															X	X	X	
14		WT															X	X	X	
15		WT															X	X	X	
16		WT															X	X	X	
17		WT															X	X	X	
18		WT															X	X	X	
19		WT															X	X	X	
20		WT															X	X	X	
21		WT															X	X	X	
22		WT															X	X	X	
23		WT															X	X	X	
24		WT															X	X	X	
25		WT															X	X	X	
26		WT															X	X	X	
27		WT															X	X	X	
28		WT															X	X	X	
29		WT															X	X	X	
30		WT															X	X	X	
31		WT															X	X	X	
32		WT															X	X	X	
33		WT															X	X	X	
34		WT															X	X	X	
35		WT															X	X	X	
36		WT															X	X	X	
37		WT															X	X	X	
38		WT															X	X	X	
39		WT															X	X	X	
40		WT															X	X	X	
41		WT															X	X	X	
42		WT															X	X	X	
43		WT															X	X	X	
44		WT															X	X	X	
45		WT															X	X	X	
46		WT															X	X	X	
47		WT															X	X	X	
48		WT															X	X	X	
49		WT															X	X	X	
50		WT															X	X	X	

3 Streams / Metals
2/19/03
Pet's paper/Archie
Gaines Point 2/19/03
7/12/03
7/10

PRINT Name of SAMPLER:
ANALYST:
DATE SHIPPED:
2/19/03

TEMP In C
Received on Ice (Y/N)
Custody Sealed (Y/N)
Cooler (Y/N)
Samples Intact (Y/N)

Page: 2 of 3



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Client Information:
 Agency: Georgia Power
 Address: 1070 Bridge Mill Ave
 Atlanta, GA 30314
 Phone: (770) 334-8226
 Fax: [Blank]
 Requested Project Information:
 Report To: Betty Stever
 Copy To: [Blank]
 Purchase Order #: [Blank]
 Project Name: Yates AWA
 Project #:
 Invoice Information:
 Attention: [Blank]
 Company Name: [Blank]
 Address: [Blank]
 Pace Quote: [Blank]
 Pace Project Manager: helen.werling@paracelsus.com
 Pace Profile #: 10940

Section B

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analytes Test	Residual Chlorine (Y/N)
			START DATE	END DATE					
1	YGWH-41	WT				Unpreserved	App IV Metals		
2	YGWH-41	WT				H2SO4	Fluoride		
3	YGWH-41	WT	02/10/2021	1645	4	HNO3	RAD 9318/9320	92521574	
4	YGWH-41	WT			4	HCl			
5	YGWH-41	WT			4	NaOH			
6	YGWH-41	WT			4	Na2S2O3			
7	YGWH-41	WT			4	Methanol			
8	YGWH-41	WT			4	Other			
9	YGWH-41	WT			4				
10	YGWH-41	WT			4				
11	YGWH-41	WT			4				
12	YGWH-41	WT			4				

ADDITIONAL COMMENTS: [Blank]
 RECEIVED BY / DATE / TIME: [Blank]
 ACCEPTED BY / DATE / TIME: Charles Frank Spohn 7/10

Sampler Name and Signature:
 Name: Peter Nyquist
 Signature: [Handwritten Signature]
 DATE SIGNED: 02/10/2021

TEMP IN C:
 Received on Ice (Y/N)
 Custody Sealed Cooler (Y/N)
 Samples Intact (Y/N)

SAMPLE CONDITIONS:
 pH = 5.65
 pH = 6.31

February 25, 2021

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

RE: Project: YATES AMA
Pace Project No.: 92521581

Dear Ms. Petty:

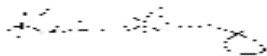
Enclosed are the analytical results for sample(s) received by the laboratory between February 10, 2021 and February 12, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where 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,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Samantha Thomas
Maribel Vital



REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: YATES AMA

Pace Project No.: 92521581

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: YATES AMA

Pace Project No.: 92521581

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92521581001	YGWA-5D (020821)	Water	02/08/21 16:45	02/10/21 17:10
92521581002	DUP-01(020821)	Water	02/08/21 00:00	02/10/21 17:10
92521581003	YGWA-5I (020821)	Water	02/08/21 16:20	02/10/21 17:10
92521581004	YGWA-39 (021021)	Water	02/10/21 09:30	02/10/21 17:10
92521581005	YGWA-40 (021021)	Water	02/10/21 10:50	02/10/21 17:10
92521581006	FB-01(021021)	Water	02/10/21 11:05	02/10/21 17:10
92521581007	YGWA-20S (020921)	Water	02/09/21 16:50	02/10/21 17:10
92521581008	YGWA-4I(020921)	Water	02/09/21 09:50	02/10/21 17:10
92521581009	YGWA-17S(020921)	Water	02/09/21 11:15	02/10/21 17:10
92521581010	YGWA-18S(020921)	Water	02/09/21 13:25	02/10/21 17:10
92521581011	YGWA-18I(020921)	Water	02/09/21 14:00	02/10/21 17:10
92521581012	YGWA-21I(020921)	Water	02/09/21 16:10	02/10/21 17:10
92521581013	YGWA-3I(021021)	Water	02/10/21 16:40	02/11/21 13:03
92521581014	YGWA-3D(021021)	Water	02/10/21 17:25	02/11/21 13:03
92521581015	YGWA-30I(021121)	Water	02/11/21 09:50	02/11/21 13:03
92521581016	FB-01(021121)	Water	02/11/21 10:00	02/11/21 13:03
92521581017	EB-01(021121)	Water	02/11/21 12:05	02/11/21 13:03
92521578002	YGWA-14S (021021)	Water	02/10/21 08:50	02/10/21 17:10
92521578010	YGWA-1I (021221)	Water	02/12/21 13:20	02/12/21 17:10
92521578011	YGWA-1D (021221)	Water	02/12/21 11:55	02/12/21 17:10
92521578001	EB-02 (021021)	Water	02/10/21 11:30	02/10/21 17:10
92521578003	DUP-1 (021021)	Water	02/10/21 00:00	02/10/21 17:10

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: YATES AMA

Pace Project No.: 92521581

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92521581001	YGWA-5D (020821)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581002	DUP-01(020821)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581003	YGWA-5I (020821)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581004	YGWA-39 (021021)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581005	YGWA-40 (021021)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581006	FB-01(021021)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581007	YGWA-20S (020921)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581008	YGWA-4I(020921)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581009	YGWA-17S(020921)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581010	YGWA-18S(020921)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581011	YGWA-18I(020921)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581012	YGWA-21I(020921)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581013	YGWA-3I(021021)	EPA 6020B	CW1	12

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: YATES AMA
Pace Project No.: 92521581

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581014	YGWA-3D(021021)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581015	YGWA-30I(021121)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581016	FB-01(021121)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581017	EB-01(021121)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521578002	YGWA-14S (021021)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521578010	YGWA-1I (021221)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	JLH	1
92521578011	YGWA-1D (021221)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	JLH	1
92521578001	EB-02 (021021)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521578003	DUP-1 (021021)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1

PASI-A = Pace Analytical Services - Asheville
PASI-C = Pace Analytical Services - Charlotte
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES AMA

Pace Project No.: 92521581

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92521581001	YGWA-5D (020821)					
EPA 6020B	Barium	0.0079J	mg/L	0.010	02/17/21 19:42	
EPA 6020B	Lead	0.00013J	mg/L	0.0050	02/17/21 19:42	
EPA 6020B	Lithium	0.0063J	mg/L	0.030	02/17/21 19:42	
EPA 6020B	Molybdenum	0.0011J	mg/L	0.010	02/17/21 19:42	
EPA 300.0 Rev 2.1 1993	Fluoride	0.055J	mg/L	0.10	02/13/21 00:35	
92521581002	DUP-01(020821)					
EPA 6020B	Barium	0.020	mg/L	0.010	02/17/21 19:47	
EPA 6020B	Lithium	0.0031J	mg/L	0.030	02/17/21 19:47	
92521581003	YGWA-5I (020821)					
	Performed by	CUSTOMER			02/23/21 08:11	
	pH	5.67	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.020	mg/L	0.010	02/17/21 19:53	
EPA 6020B	Lead	0.000037J	mg/L	0.0050	02/17/21 19:53	
EPA 6020B	Lithium	0.0032J	mg/L	0.030	02/17/21 19:53	
92521581004	YGWA-39 (021021)					
	Performed by	CUSTOMER			02/23/21 08:11	
	pH	5.80	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.027	mg/L	0.010	02/17/21 19:59	
EPA 6020B	Beryllium	0.000051J	mg/L	0.0030	02/17/21 19:59	
EPA 6020B	Cadmium	0.00019J	mg/L	0.0025	02/17/21 19:59	
EPA 6020B	Cobalt	0.00098J	mg/L	0.0050	02/17/21 19:59	
EPA 6020B	Lithium	0.0071J	mg/L	0.030	02/17/21 19:59	
EPA 6020B	Molybdenum	0.0013J	mg/L	0.010	02/17/21 19:59	
92521581005	YGWA-40 (021021)					
	Performed by	CUSTOMER			02/23/21 08:11	
	pH	5.19	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.032	mg/L	0.010	02/17/21 20:05	
EPA 6020B	Beryllium	0.00021J	mg/L	0.0030	02/17/21 20:05	
92521581006	FB-01(021021)					
EPA 6020B	Antimony	0.00052J	mg/L	0.0030	02/17/21 20:39	B
92521581007	YGWA-20S (020921)					
	Performed by	CUSTOMER			02/23/21 08:11	
	pH	5.86	Std. Units		02/23/21 08:11	
EPA 6020B	Antimony	0.00032J	mg/L	0.0030	02/17/21 20:45	B
EPA 6020B	Barium	0.015	mg/L	0.010	02/17/21 20:45	
EPA 6020B	Beryllium	0.000068J	mg/L	0.0030	02/17/21 20:45	
EPA 6020B	Chromium	0.00056J	mg/L	0.010	02/17/21 20:45	
EPA 6020B	Lead	0.000063J	mg/L	0.0050	02/17/21 20:45	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES AMA

Pace Project No.: 92521581

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92521581008	YGWA-4I(020921)					
	Performed by	CUSTOME			02/23/21 08:11	
		R				
	pH	6.06	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.013	mg/L	0.010	02/17/21 20:50	
EPA 6020B	Lithium	0.011J	mg/L	0.030	02/17/21 20:50	
92521581009	YGWA-17S(020921)					
	Performed by	CUSTOME			02/23/21 08:11	
		R				
	pH	5.62	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.016	mg/L	0.010	02/17/21 20:56	
EPA 6020B	Beryllium	0.000094J	mg/L	0.0030	02/17/21 20:56	
EPA 6020B	Chromium	0.00098J	mg/L	0.010	02/17/21 20:56	
92521581010	YGWA-18S(020921)					
	Performed by	CUSTOME			02/23/21 08:11	
		R				
	pH	5.43	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.017	mg/L	0.010	02/17/21 21:02	
EPA 6020B	Beryllium	0.000098J	mg/L	0.0030	02/17/21 21:02	
EPA 6020B	Chromium	0.0013J	mg/L	0.010	02/17/21 21:02	
EPA 6020B	Lead	0.000094J	mg/L	0.0050	02/17/21 21:02	
EPA 6020B	Lithium	0.0019J	mg/L	0.030	02/17/21 21:02	
92521581011	YGWA-18I(020921)					
	Performed by	CUSTOME			02/23/21 08:11	
		R				
	pH	6.12	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.023	mg/L	0.010	02/17/21 21:07	
EPA 6020B	Chromium	0.00083J	mg/L	0.010	02/17/21 21:07	
EPA 6020B	Lead	0.000050J	mg/L	0.0050	02/17/21 21:07	
EPA 6020B	Lithium	0.0031J	mg/L	0.030	02/17/21 21:07	
92521581012	YGWA-21I(020921)					
	Performed by	CUSTOME			02/23/21 08:11	
		R				
	pH	6.95	Std. Units		02/23/21 08:11	
EPA 6020B	Antimony	0.0013J	mg/L	0.0030	02/17/21 21:13	B
EPA 6020B	Arsenic	0.0010J	mg/L	0.0050	02/17/21 21:13	
EPA 6020B	Barium	0.011	mg/L	0.010	02/17/21 21:13	
EPA 6020B	Cadmium	0.00041J	mg/L	0.0025	02/17/21 21:13	
EPA 6020B	Cobalt	0.0090	mg/L	0.0050	02/17/21 21:13	
EPA 6020B	Lithium	0.0060J	mg/L	0.030	02/17/21 21:13	
EPA 300.0 Rev 2.1 1993	Fluoride	0.092J	mg/L	0.10	02/12/21 16:12	
92521581013	YGWA-3I(021021)					
	Performed by	CUSTOME			02/23/21 08:11	
		R				
	pH	7.58	Std. Units		02/23/21 08:11	
EPA 6020B	Arsenic	0.00078J	mg/L	0.0050	02/17/21 21:19	
EPA 6020B	Barium	0.0029J	mg/L	0.010	02/17/21 21:19	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES AMA

Pace Project No.: 92521581

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521581013	YGWA-3I(021021)					
EPA 6020B	Lithium	0.015J	mg/L	0.030	02/17/21 21:19	
EPA 6020B	Molybdenum	0.0038J	mg/L	0.010	02/17/21 21:19	
92521581014	YGWA-3D(021021)					
	Performed by	CUSTOMER			02/23/21 08:11	
	pH	7.81	Std. Units		02/23/21 08:11	
EPA 6020B	Arsenic	0.00094J	mg/L	0.0050	02/17/21 21:25	
EPA 6020B	Barium	0.0059J	mg/L	0.010	02/17/21 21:25	
EPA 6020B	Lithium	0.023J	mg/L	0.030	02/17/21 21:25	
EPA 6020B	Molybdenum	0.014	mg/L	0.010	02/17/21 21:25	
EPA 300.0 Rev 2.1 1993	Fluoride	0.43	mg/L	0.10	02/12/21 20:11	
92521581015	YGWA-30I(021121)					
	Performed by	CUSTOMER			02/23/21 08:11	
	pH	5.73	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.0077J	mg/L	0.010	02/17/21 21:30	
EPA 6020B	Beryllium	0.000047J	mg/L	0.0030	02/17/21 21:30	
EPA 6020B	Cobalt	0.0078	mg/L	0.0050	02/17/21 21:30	
EPA 6020B	Lead	0.000046J	mg/L	0.0050	02/17/21 21:30	
EPA 6020B	Lithium	0.0012J	mg/L	0.030	02/17/21 21:30	
92521581016	FB-01(021121)					
EPA 6020B	Lead	0.00013J	mg/L	0.0050	02/17/21 21:53	
92521578002	YGWA-14S (021021)					
	Performed by	CUSTOMER			02/23/21 08:11	
	pH	5.35	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.0078J	mg/L	0.010	02/23/21 20:47	
EPA 6020B	Beryllium	0.00019J	mg/L	0.0030	02/23/21 20:47	
EPA 6020B	Lead	0.000048J	mg/L	0.0050	02/23/21 20:47	
92521578010	YGWA-1I (021221)					
	Performed by	CUSTOMER			02/23/21 08:11	
	pH	6.21	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.0090J	mg/L	0.010	02/23/21 22:01	
EPA 6020B	Cobalt	0.0028J	mg/L	0.0050	02/23/21 22:01	
EPA 6020B	Lead	0.00038J	mg/L	0.0050	02/23/21 22:01	
EPA 6020B	Lithium	0.0025J	mg/L	0.030	02/23/21 22:01	
EPA 6020B	Molybdenum	0.0056J	mg/L	0.010	02/23/21 22:01	
92521578011	YGWA-1D (021221)					
	Performed by	CUSTOMER			02/23/21 08:11	
	pH	7.14	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.0057J	mg/L	0.010	02/23/21 22:07	
EPA 6020B	Cobalt	0.00086J	mg/L	0.0050	02/23/21 22:07	
EPA 6020B	Lead	0.000044J	mg/L	0.0050	02/23/21 22:07	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES AMA

Pace Project No.: 92521581

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521578011	YGWA-1D (021221)					
EPA 6020B	Lithium	0.010J	mg/L	0.030	02/23/21 22:07	
EPA 6020B	Molybdenum	0.0080J	mg/L	0.010	02/23/21 22:07	
EPA 300.0 Rev 2.1 1993	Fluoride	0.068J	mg/L	0.10	02/16/21 19:01	
92521578003	DUP-1 (021021)					
EPA 6020B	Barium	0.0078J	mg/L	0.010	02/23/21 20:52	
EPA 6020B	Beryllium	0.00019J	mg/L	0.0030	02/23/21 20:52	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: YGWA-5D (020821) **Lab ID: 92521581001** Collected: 02/08/21 16:45 Received: 02/10/21 17:10 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 19:42	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 19:42	7440-38-2	
Barium	0.0079J	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 19:42	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 19:42	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 19:42	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 19:42	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 19:42	7440-48-4	
Lead	0.00013J	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 19:42	7439-92-1	
Lithium	0.0063J	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 19:42	7439-93-2	
Molybdenum	0.0011J	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 19:42	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 19:42	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 19:42	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 11:29	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	0.055J	mg/L	0.10	0.050	1		02/13/21 00:35	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: DUP-01(020821) Lab ID: 92521581002 Collected: 02/08/21 00:00 Received: 02/10/21 17:10 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 19:47	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 19:47	7440-38-2	
Barium	0.020	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 19:47	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 19:47	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 19:47	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 19:47	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 19:47	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 19:47	7439-92-1	
Lithium	0.0031J	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 19:47	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 19:47	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 19:47	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 19:47	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 11:31	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/13/21 00:50	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: YGWA-5I (020821) Lab ID: 92521581003 Collected: 02/08/21 16:20 Received: 02/10/21 17:10 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/23/21 08:11		
pH	5.67	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 19:53	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 19:53	7440-38-2	
Barium	0.020	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 19:53	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 19:53	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 19:53	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 19:53	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 19:53	7440-48-4	
Lead	0.000037J	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 19:53	7439-92-1	
Lithium	0.0032J	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 19:53	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 19:53	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 19:53	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 19:53	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 11:34	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/13/21 01:04	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: YGWA-39 (021021) **Lab ID: 92521581004** Collected: 02/10/21 09:30 Received: 02/10/21 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/23/21 08:11		
pH	5.80	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 19:59	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 19:59	7440-38-2	
Barium	0.027	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 19:59	7440-39-3	
Beryllium	0.00051J	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 19:59	7440-41-7	
Cadmium	0.00019J	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 19:59	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 19:59	7440-47-3	
Cobalt	0.00098J	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 19:59	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 19:59	7439-92-1	
Lithium	0.0071J	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 19:59	7439-93-2	
Molybdenum	0.0013J	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 19:59	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 19:59	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 19:59	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 11:36	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/13/21 01:19	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: YGWA-40 (021021) Lab ID: 92521581005 Collected: 02/10/21 10:50 Received: 02/10/21 17:10 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/23/21 08:11		
pH	5.19	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 20:05	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 20:05	7440-38-2	
Barium	0.032	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 20:05	7440-39-3	
Beryllium	0.00021J	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 20:05	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 20:05	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 20:05	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 20:05	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 20:05	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 20:05	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 20:05	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 20:05	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 20:05	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 11:38	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/13/21 01:33	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: FB-01(021021) Lab ID: 92521581006 Collected: 02/10/21 11:05 Received: 02/10/21 17:10 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00052J	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 20:39	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 20:39	7440-38-2	
Barium	ND	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 20:39	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 20:39	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 20:39	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 20:39	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 20:39	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 20:39	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 20:39	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 20:39	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 20:39	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 20:39	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 11:53	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/13/21 02:16	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: YGWA-20S (020921) **Lab ID: 92521581007** Collected: 02/09/21 16:50 Received: 02/10/21 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/23/21 08:11		
pH	5.86	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00032J	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 20:45	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 20:45	7440-38-2	
Barium	0.015	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 20:45	7440-39-3	
Beryllium	0.00068J	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 20:45	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 20:45	7440-43-9	
Chromium	0.00056J	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 20:45	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 20:45	7440-48-4	
Lead	0.00063J	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 20:45	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 20:45	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 20:45	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 20:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 20:45	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 11:55	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/13/21 02:31	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: YGWA-4I(020921) **Lab ID: 92521581008** Collected: 02/09/21 09:50 Received: 02/10/21 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
------------	---------	-------	--------------	-----	----	----------	----------	---------	------

Field Data

Analytical Method:
Pace Analytical Services - Charlotte

Performed by	CUSTOMER				1		02/23/21 08:11		
pH	6.06	Std. Units			1		02/23/21 08:11		

6020 MET ICPMS

Analytical Method: EPA 6020B Preparation Method: EPA 3005A
Pace Analytical Services - Peachtree Corners, GA

Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 20:50	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 20:50	7440-38-2	
Barium	0.013	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 20:50	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 20:50	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 20:50	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 20:50	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 20:50	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 20:50	7439-92-1	
Lithium	0.011J	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 20:50	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 20:50	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 20:50	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 20:50	7440-28-0	

7470 Mercury

Analytical Method: EPA 7470A Preparation Method: EPA 7470A
Pace Analytical Services - Peachtree Corners, GA

Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 11:57	7439-97-6	
---------	----	------	---------	----------	---	----------------	----------------	-----------	--

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

Fluoride	ND	mg/L	0.10	0.050	1		02/13/21 02:45	16984-48-8	
----------	----	------	------	-------	---	--	----------------	------------	--

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: YGWA-17S(020921) **Lab ID: 92521581009** Collected: 02/09/21 11:15 Received: 02/10/21 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/23/21 08:11		
pH	5.62	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 20:56	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 20:56	7440-38-2	
Barium	0.016	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 20:56	7440-39-3	
Beryllium	0.00094J	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 20:56	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 20:56	7440-43-9	
Chromium	0.00098J	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 20:56	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 20:56	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 20:56	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 20:56	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 20:56	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 20:56	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 20:56	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 12:00	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/13/21 03:29	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: YGWA-18S(020921) **Lab ID: 92521581010** Collected: 02/09/21 13:25 Received: 02/10/21 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/23/21 08:11		
pH	5.43	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 21:02	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 21:02	7440-38-2	
Barium	0.017	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 21:02	7440-39-3	
Beryllium	0.000098J	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 21:02	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 21:02	7440-43-9	
Chromium	0.0013J	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 21:02	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 21:02	7440-48-4	
Lead	0.000094J	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 21:02	7439-92-1	
Lithium	0.0019J	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 21:02	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 21:02	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 21:02	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 21:02	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 12:02	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/13/21 03:43	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: YGWA-18(020921) **Lab ID: 92521581011** Collected: 02/09/21 14:00 Received: 02/10/21 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/23/21 08:11		
pH	6.12	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 21:07	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 21:07	7440-38-2	
Barium	0.023	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 21:07	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 21:07	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 21:07	7440-43-9	
Chromium	0.00083J	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 21:07	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 21:07	7440-48-4	
Lead	0.000050J	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 21:07	7439-92-1	
Lithium	0.0031J	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 21:07	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 21:07	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 21:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 21:07	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 12:05	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 15:56	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES AMA

Pace Project No.: 92521581

Sample: YGWA-211(020921) **Lab ID: 92521581012** Collected: 02/09/21 16:10 Received: 02/10/21 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/23/21 08:11		
pH	6.95	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0013J	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 21:13	7440-36-0	B
Arsenic	0.0010J	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 21:13	7440-38-2	
Barium	0.011	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 21:13	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 21:13	7440-41-7	
Cadmium	0.00041J	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 21:13	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 21:13	7440-47-3	
Cobalt	0.0090	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 21:13	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 21:13	7439-92-1	
Lithium	0.0060J	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 21:13	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 21:13	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 21:13	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 21:13	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 12:07	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	0.092J	mg/L	0.10	0.050	1		02/12/21 16:12	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: YGWA-3I(021021) Lab ID: 92521581013 Collected: 02/10/21 16:40 Received: 02/11/21 13:03 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/23/21 08:11		
pH	7.58	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 21:19	7440-36-0	
Arsenic	0.00078J	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 21:19	7440-38-2	
Barium	0.0029J	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 21:19	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 21:19	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 21:19	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 21:19	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 21:19	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 21:19	7439-92-1	
Lithium	0.015J	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 21:19	7439-93-2	
Molybdenum	0.0038J	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 21:19	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 21:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 21:19	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 12:09	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 19:55	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: YGWA-3D(021021) **Lab ID: 92521581014** Collected: 02/10/21 17:25 Received: 02/11/21 13:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/23/21 08:11		
pH	7.81	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 21:25	7440-36-0	
Arsenic	0.00094J	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 21:25	7440-38-2	
Barium	0.0059J	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 21:25	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 21:25	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 21:25	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 21:25	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 21:25	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 21:25	7439-92-1	
Lithium	0.023J	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 21:25	7439-93-2	
Molybdenum	0.014	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 21:25	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 21:25	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 21:25	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 12:12	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	0.43	mg/L	0.10	0.050	1		02/12/21 20:11	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: YGWA-30I(021121) **Lab ID: 92521581015** Collected: 02/11/21 09:50 Received: 02/11/21 13:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
------------	---------	-------	--------------	-----	----	----------	----------	---------	------

Field Data

Analytical Method:
Pace Analytical Services - Charlotte

Performed by	CUSTOMER				1		02/23/21 08:11		
pH	5.73	Std. Units			1		02/23/21 08:11		

6020 MET ICPMS

Analytical Method: EPA 6020B Preparation Method: EPA 3005A
Pace Analytical Services - Peachtree Corners, GA

Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 21:30	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 21:30	7440-38-2	
Barium	0.0077J	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 21:30	7440-39-3	
Beryllium	0.000047J	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 21:30	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 21:30	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 21:30	7440-47-3	
Cobalt	0.0078	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 21:30	7440-48-4	
Lead	0.000046J	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 21:30	7439-92-1	
Lithium	0.0012J	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 21:30	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 21:30	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 21:30	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 21:30	7440-28-0	

7470 Mercury

Analytical Method: EPA 7470A Preparation Method: EPA 7470A
Pace Analytical Services - Peachtree Corners, GA

Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 12:14	7439-97-6	
---------	----	------	---------	----------	---	----------------	----------------	-----------	--

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 20:27	16984-48-8	
----------	----	------	------	-------	---	--	----------------	------------	--

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: FB-01(021121) Lab ID: 92521581016 Collected: 02/11/21 10:00 Received: 02/11/21 13:03 Matrix: Water										
Parameters	Results	Units	Report Limit		MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS										
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA										
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 21:53	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 21:53	7440-38-2		
Barium	ND	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 21:53	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 21:53	7440-41-7		
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 21:53	7440-43-9		
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 21:53	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 21:53	7440-48-4		
Lead	0.00013J	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 21:53	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 21:53	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 21:53	7439-98-7		
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 21:53	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 21:53	7440-28-0		
7470 Mercury										
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA										
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 12:21	7439-97-6		
300.0 IC Anions 28 Days										
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville										
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 20:43	16984-48-8		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: EB-01(021121) Lab ID: 92521581017 Collected: 02/11/21 12:05 Received: 02/11/21 13:03 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 21:59	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 21:59	7440-38-2	
Barium	ND	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 21:59	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 21:59	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 21:59	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 21:59	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 21:59	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 21:59	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 21:59	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 21:59	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 21:59	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 21:59	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 12:24	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 20:59	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: YGWA-14S (021021) **Lab ID: 92521578002** Collected: 02/10/21 08:50 Received: 02/10/21 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/23/21 08:11		
pH	5.35	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/23/21 10:38	02/23/21 20:47	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/23/21 10:38	02/23/21 20:47	7440-38-2	
Barium	0.0078J	mg/L	0.010	0.00071	1	02/23/21 10:38	02/23/21 20:47	7440-39-3	
Beryllium	0.00019J	mg/L	0.0030	0.000046	1	02/23/21 10:38	02/23/21 20:47	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/23/21 10:38	02/23/21 20:47	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/23/21 10:38	02/23/21 20:47	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/23/21 10:38	02/23/21 20:47	7440-48-4	
Lead	0.000048J	mg/L	0.0050	0.000036	1	02/23/21 10:38	02/23/21 20:47	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/23/21 10:38	02/23/21 20:47	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/23/21 10:38	02/23/21 20:47	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/23/21 10:38	02/23/21 20:47	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/23/21 10:38	02/23/21 20:47	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 11:40	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 22:26	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: YGWA-1I (021221) Lab ID: 92521578010 Collected: 02/12/21 13:20 Received: 02/12/21 17:10 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/23/21 08:11		
pH	6.21	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/23/21 10:38	02/23/21 22:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/23/21 10:38	02/23/21 22:01	7440-38-2	
Barium	0.0090J	mg/L	0.010	0.00071	1	02/23/21 10:38	02/23/21 22:01	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/23/21 10:38	02/23/21 22:01	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/23/21 10:38	02/23/21 22:01	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/23/21 10:38	02/23/21 22:01	7440-47-3	
Cobalt	0.0028J	mg/L	0.0050	0.00038	1	02/23/21 10:38	02/23/21 22:01	7440-48-4	
Lead	0.00038J	mg/L	0.0050	0.000036	1	02/23/21 10:38	02/23/21 22:01	7439-92-1	
Lithium	0.0025J	mg/L	0.030	0.00081	1	02/23/21 10:38	02/23/21 22:01	7439-93-2	
Molybdenum	0.0056J	mg/L	0.010	0.00069	1	02/23/21 10:38	02/23/21 22:01	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/23/21 10:38	02/23/21 22:01	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/23/21 10:38	02/23/21 22:01	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/22/21 02:15	02/23/21 13:48	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/16/21 18:16	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: YGWA-1D (021221) Lab ID: 92521578011 Collected: 02/12/21 11:55 Received: 02/12/21 17:10 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/23/21 08:11		
pH	7.14	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/23/21 10:38	02/23/21 22:07	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/23/21 10:38	02/23/21 22:07	7440-38-2	
Barium	0.0057J	mg/L	0.010	0.00071	1	02/23/21 10:38	02/23/21 22:07	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/23/21 10:38	02/23/21 22:07	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/23/21 10:38	02/23/21 22:07	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/23/21 10:38	02/23/21 22:07	7440-47-3	
Cobalt	0.00086J	mg/L	0.0050	0.00038	1	02/23/21 10:38	02/23/21 22:07	7440-48-4	
Lead	0.000044J	mg/L	0.0050	0.000036	1	02/23/21 10:38	02/23/21 22:07	7439-92-1	
Lithium	0.010J	mg/L	0.030	0.00081	1	02/23/21 10:38	02/23/21 22:07	7439-93-2	
Molybdenum	0.0080J	mg/L	0.010	0.00069	1	02/23/21 10:38	02/23/21 22:07	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/23/21 10:38	02/23/21 22:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/23/21 10:38	02/23/21 22:07	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/22/21 02:15	02/23/21 13:50	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	0.068J	mg/L	0.10	0.050	1		02/16/21 19:01	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: EB-02 (021021) Lab ID: 92521578001 Collected: 02/10/21 11:30 Received: 02/10/21 17:10 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/23/21 10:38	02/23/21 20:41	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/23/21 10:38	02/23/21 20:41	7440-38-2	
Barium	ND	mg/L	0.010	0.00071	1	02/23/21 10:38	02/23/21 20:41	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/23/21 10:38	02/23/21 20:41	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/23/21 10:38	02/23/21 20:41	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/23/21 10:38	02/23/21 20:41	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/23/21 10:38	02/23/21 20:41	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/23/21 10:38	02/23/21 20:41	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/23/21 10:38	02/23/21 20:41	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/23/21 10:38	02/23/21 20:41	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/23/21 10:38	02/23/21 20:41	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/23/21 10:38	02/23/21 20:41	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 11:37	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 22:11	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: DUP-1 (021021) Lab ID: 92521578003 Collected: 02/10/21 00:00 Received: 02/10/21 17:10 Matrix: Water										
Parameters	Results	Units	Report Limit		MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS										
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA										
Antimony	ND	mg/L	0.0030	0.00028	1	02/23/21 10:38	02/23/21 20:52	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	02/23/21 10:38	02/23/21 20:52	7440-38-2		
Barium	0.0078J	mg/L	0.010	0.00071	1	02/23/21 10:38	02/23/21 20:52	7440-39-3		
Beryllium	0.00019J	mg/L	0.0030	0.000046	1	02/23/21 10:38	02/23/21 20:52	7440-41-7		
Cadmium	ND	mg/L	0.0025	0.00012	1	02/23/21 10:38	02/23/21 20:52	7440-43-9		
Chromium	ND	mg/L	0.010	0.00055	1	02/23/21 10:38	02/23/21 20:52	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	02/23/21 10:38	02/23/21 20:52	7440-48-4		
Lead	ND	mg/L	0.0050	0.000036	1	02/23/21 10:38	02/23/21 20:52	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	02/23/21 10:38	02/23/21 20:52	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	02/23/21 10:38	02/23/21 20:52	7439-98-7		
Selenium	ND	mg/L	0.010	0.0016	1	02/23/21 10:38	02/23/21 20:52	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	02/23/21 10:38	02/23/21 20:52	7440-28-0		
7470 Mercury										
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA										
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 11:47	7439-97-6		
300.0 IC Anions 28 Days										
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville										
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 22:40	16984-48-8		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES AMA
Pace Project No.: 92521581

QC Batch: 600633 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92521581001, 92521581002, 92521581003, 92521581004, 92521581005, 92521581006, 92521581007, 92521581008, 92521581009, 92521581010, 92521581011, 92521581012, 92521581013, 92521581014, 92521581015, 92521581016, 92521581017

METHOD BLANK: 3165605 Matrix: Water
Associated Lab Samples: 92521581001, 92521581002, 92521581003, 92521581004, 92521581005, 92521581006, 92521581007, 92521581008, 92521581009, 92521581010, 92521581011, 92521581012, 92521581013, 92521581014, 92521581015, 92521581016, 92521581017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00031J	0.0030	0.00028	02/17/21 19:30	
Arsenic	mg/L	ND	0.0050	0.00078	02/17/21 19:30	
Barium	mg/L	ND	0.010	0.00071	02/17/21 19:30	
Beryllium	mg/L	ND	0.0030	0.000046	02/17/21 19:30	
Cadmium	mg/L	ND	0.0025	0.00012	02/17/21 19:30	
Chromium	mg/L	ND	0.010	0.00055	02/17/21 19:30	
Cobalt	mg/L	ND	0.0050	0.00038	02/17/21 19:30	
Lead	mg/L	ND	0.0050	0.000036	02/17/21 19:30	
Lithium	mg/L	ND	0.030	0.00081	02/17/21 19:30	
Molybdenum	mg/L	ND	0.010	0.00069	02/17/21 19:30	
Selenium	mg/L	ND	0.010	0.0016	02/17/21 19:30	
Thallium	mg/L	ND	0.0010	0.00014	02/17/21 19:30	

LABORATORY CONTROL SAMPLE: 3165606

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	109	80-120	
Arsenic	mg/L	0.1	0.10	100	80-120	
Barium	mg/L	0.1	0.098	98	80-120	
Beryllium	mg/L	0.1	0.098	98	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.10	102	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	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.10	104	80-120	
Selenium	mg/L	0.1	0.095	95	80-120	
Thallium	mg/L	0.1	0.096	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3165608 3165611

Parameter	Units	92521581005 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	111	109	75-125	2	20	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES AMA

Pace Project No.: 92521581

Parameter	Units	3165608		3165611		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92521581005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Arsenic	mg/L	ND	0.1	0.1	0.10	0.098	101	98	75-125	3	20		
Barium	mg/L	0.032	0.1	0.1	0.14	0.13	103	98	75-125	4	20		
Beryllium	mg/L	0.00021J	0.1	0.1	0.092	0.093	92	93	75-125	1	20		
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	102	100	75-125	2	20		
Chromium	mg/L	ND	0.1	0.1	0.11	0.10	105	103	75-125	2	20		
Cobalt	mg/L	ND	0.1	0.1	0.10	0.099	103	99	75-125	4	20		
Lead	mg/L	ND	0.1	0.1	0.10	0.099	101	99	75-125	2	20		
Lithium	mg/L	ND	0.1	0.1	0.092	0.096	92	96	75-125	4	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	104	102	75-125	2	20		
Selenium	mg/L	ND	0.1	0.1	0.098	0.095	96	94	75-125	2	20		
Thallium	mg/L	ND	0.1	0.1	0.099	0.097	99	97	75-125	3	20		

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES AMA
Pace Project No.: 92521581

QC Batch: 601867 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92521578001, 92521578002, 92521578003, 92521578010, 92521578011

METHOD BLANK: 3171184 Matrix: Water
Associated Lab Samples: 92521578001, 92521578002, 92521578003, 92521578010, 92521578011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	02/23/21 20:30	
Arsenic	mg/L	ND	0.0050	0.00078	02/23/21 20:30	
Barium	mg/L	ND	0.010	0.00071	02/23/21 20:30	
Beryllium	mg/L	ND	0.0030	0.000046	02/23/21 20:30	
Cadmium	mg/L	ND	0.0025	0.00012	02/23/21 20:30	
Chromium	mg/L	ND	0.010	0.00055	02/23/21 20:30	
Cobalt	mg/L	ND	0.0050	0.00038	02/23/21 20:30	
Lead	mg/L	ND	0.0050	0.000036	02/23/21 20:30	
Lithium	mg/L	ND	0.030	0.00081	02/23/21 20:30	
Molybdenum	mg/L	ND	0.010	0.00069	02/23/21 20:30	
Selenium	mg/L	ND	0.010	0.0016	02/23/21 20:30	
Thallium	mg/L	ND	0.0010	0.00014	02/23/21 20:30	

LABORATORY CONTROL SAMPLE: 3171185

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	108	80-120	
Arsenic	mg/L	0.1	0.096	96	80-120	
Barium	mg/L	0.1	0.099	99	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Cadmium	mg/L	0.1	0.10	103	80-120	
Chromium	mg/L	0.1	0.10	100	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.090	90	80-120	
Thallium	mg/L	0.1	0.095	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3171186 3171187

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92521578009	Result	Spike Conc.	Spike Conc.							Result
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	110	108	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	0	20	
Barium	mg/L	0.078	0.1	0.1	0.18	0.18	105	99	75-125	3	20	
Beryllium	mg/L	ND	0.1	0.1	0.093	0.096	93	96	75-125	2	20	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES AMA
Pace Project No.: 92521581

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3171186												3171187	
Parameter	Units	92521578009 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
			Spike Conc.	Spike Conc.									
Cadmium	mg/L	0.00052J	0.1	0.1	0.10	0.10	103	104	75-125	0	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	0	20		
Cobalt	mg/L	ND	0.1	0.1	0.099	0.098	99	98	75-125	1	20		
Lead	mg/L	ND	0.1	0.1	0.10	0.097	100	97	75-125	2	20		
Lithium	mg/L	0.0070J	0.1	0.1	0.10	0.10	93	93	75-125	1	20		
Molybdenum	mg/L	0.0012J	0.1	0.1	0.10	0.10	102	102	75-125	0	20		
Selenium	mg/L	ND	0.1	0.1	0.092	0.091	92	91	75-125	1	20		
Thallium	mg/L	ND	0.1	0.1	0.097	0.095	97	95	75-125	2	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3171188												3171189	
Parameter	Units	92521578011 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
			Spike Conc.	Spike Conc.									
Antimony	mg/L	ND	0.1	0.1	0.10	0.11	103	106	75-125	2	20		
Arsenic	mg/L	ND	0.1	0.1	0.093	0.096	93	96	75-125	3	20		
Barium	mg/L	0.0057J	0.1	0.1	0.10	0.10	95	97	75-125	1	20		
Beryllium	mg/L	ND	0.1	0.1	0.090	0.093	90	93	75-125	4	20		
Cadmium	mg/L	ND	0.1	0.1	0.098	0.10	98	103	75-125	5	20		
Chromium	mg/L	ND	0.1	0.1	0.096	0.099	96	98	75-125	3	20		
Cobalt	mg/L	0.00086J	0.1	0.1	0.093	0.097	92	96	75-125	4	20		
Lead	mg/L	0.000044J	0.1	0.1	0.094	0.098	94	98	75-125	3	20		
Lithium	mg/L	0.010J	0.1	0.1	0.10	0.11	90	96	75-125	5	20		
Molybdenum	mg/L	0.0080J	0.1	0.1	0.10	0.11	95	99	75-125	3	20		
Selenium	mg/L	ND	0.1	0.1	0.086	0.089	86	89	75-125	3	20		
Thallium	mg/L	ND	0.1	0.1	0.092	0.095	92	95	75-125	3	20		

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES AMA

Pace Project No.: 92521581

QC Batch: 600023

Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92521578001, 92521578002, 92521578003

METHOD BLANK: 3163248

Matrix: Water

Associated Lab Samples: 92521578001, 92521578002, 92521578003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000078	02/16/21 11:30	

LABORATORY CONTROL SAMPLE: 3163249

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3163250 3163251

Parameter	Units	3163250		3163251		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0024	0.0023	94	92	75-125	2	20	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES AMA
Pace Project No.: 92521581

QC Batch: 600356 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92521581001, 92521581002, 92521581003, 92521581004, 92521581005, 92521581006, 92521581007, 92521581008, 92521581009, 92521581010, 92521581011, 92521581012, 92521581013, 92521581014, 92521581015, 92521581016, 92521581017

METHOD BLANK: 3164655 Matrix: Water
Associated Lab Samples: 92521581001, 92521581002, 92521581003, 92521581004, 92521581005, 92521581006, 92521581007, 92521581008, 92521581009, 92521581010, 92521581011, 92521581012, 92521581013, 92521581014, 92521581015, 92521581016, 92521581017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000078	02/18/21 11:24	

LABORATORY CONTROL SAMPLE: 3164656

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3164657 3164658

Parameter	Units	3164657		3164658		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92521581005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0024	97	96	75-125	1	20	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES AMA
Pace Project No.: 92521581

QC Batch: 601295	Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A	Analysis Description: 7470 Mercury
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92521578010, 92521578011

METHOD BLANK: 3168813 Matrix: Water
Associated Lab Samples: 92521578010, 92521578011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000078	02/23/21 13:14	

LABORATORY CONTROL SAMPLE: 3168814

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0023	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3168815 3168816

Parameter	Units	3168815		3168816		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0022	0.0022	88	89	75-125	1	20	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES AMA
Pace Project No.: 92521581

QC Batch: 599663 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: 92521578001, 92521578002, 92521578003, 92521581001, 92521581002, 92521581003, 92521581004, 92521581005, 92521581006, 92521581007, 92521581008, 92521581009, 92521581010

METHOD BLANK: 3161251 Matrix: Water
Associated Lab Samples: 92521578001, 92521578002, 92521578003, 92521581001, 92521581002, 92521581003, 92521581004, 92521581005, 92521581006, 92521581007, 92521581008, 92521581009, 92521581010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	02/12/21 20:16	

LABORATORY CONTROL SAMPLE: 3161252

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.6	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3161253 3161254

Parameter	Units	92521574009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	ND	2.5	2.5	2.7	2.7	109	108	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3161255 3161256

Parameter	Units	92521581005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	ND	2.5	2.5	2.5	2.7	100	108	90-110	8	10	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES AMA
Pace Project No.: 92521581

QC Batch: 599664	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: 92521581011, 92521581012, 92521581013, 92521581014, 92521581015, 92521581016, 92521581017

METHOD BLANK: 3161257 Matrix: Water
Associated Lab Samples: 92521581011, 92521581012, 92521581013, 92521581014, 92521581015, 92521581016, 92521581017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	02/12/21 15:24	

LABORATORY CONTROL SAMPLE: 3161258

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.6	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3161259 3161260

Parameter	Units	3161259		3161260		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92521578009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Fluoride	mg/L	0.066J	2.5	2.5	2.4	2.5	93	99	90-110	6	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3161575 3161576

Parameter	Units	3161575		3161576		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92521143010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Fluoride	mg/L	0.21	2.5	2.5	2.3	2.5	84	91	90-110	7	10 M1	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES AMA
Pace Project No.: 92521581

QC Batch: 600235 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: 92521578010, 92521578011

METHOD BLANK: 3164171 Matrix: Water
Associated Lab Samples: 92521578010, 92521578011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	02/16/21 14:16	

LABORATORY CONTROL SAMPLE: 3164172

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.4	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3164173 3164174

Parameter	Units	3164173		3164174		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92522138001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	95	97	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3164175 3164176

Parameter	Units	3164175		3164176		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92521578011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Fluoride	mg/L	0.068J	2.5	2.5	2.6	2.6	100	100	90-110	1	10	

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: YATES AMA

Pace Project No.: 92521581

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.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES AMA
Pace Project No.: 92521581

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92521578002	YGWA-14S (021021)				
92521581003	YGWA-5I (020821)				
92521581004	YGWA-39 (021021)				
92521581005	YGWA-40 (021021)				
92521581007	YGWA-20S (020921)				
92521581008	YGWA-4I(020921)				
92521581009	YGWA-17S(020921)				
92521581010	YGWA-18S(020921)				
92521581011	YGWA-18I(020921)				
92521581012	YGWA-21I(020921)				
92521581013	YGWA-3I(021021)				
92521581014	YGWA-3D(021021)				
92521581015	YGWA-30I(021121)				
92521578010	YGWA-1I (021221)				
92521578011	YGWA-1D (021221)				
92521578001	EB-02 (021021)	EPA 3005A	601867	EPA 6020B	601989
92521578002	YGWA-14S (021021)	EPA 3005A	601867	EPA 6020B	601989
92521578003	DUP-1 (021021)	EPA 3005A	601867	EPA 6020B	601989
92521581001	YGWA-5D (020821)	EPA 3005A	600633	EPA 6020B	600737
92521581002	DUP-01(020821)	EPA 3005A	600633	EPA 6020B	600737
92521581003	YGWA-5I (020821)	EPA 3005A	600633	EPA 6020B	600737
92521581004	YGWA-39 (021021)	EPA 3005A	600633	EPA 6020B	600737
92521581005	YGWA-40 (021021)	EPA 3005A	600633	EPA 6020B	600737
92521581006	FB-01(021021)	EPA 3005A	600633	EPA 6020B	600737
92521581007	YGWA-20S (020921)	EPA 3005A	600633	EPA 6020B	600737
92521581008	YGWA-4I(020921)	EPA 3005A	600633	EPA 6020B	600737
92521581009	YGWA-17S(020921)	EPA 3005A	600633	EPA 6020B	600737
92521581010	YGWA-18S(020921)	EPA 3005A	600633	EPA 6020B	600737
92521581011	YGWA-18I(020921)	EPA 3005A	600633	EPA 6020B	600737
92521581012	YGWA-21I(020921)	EPA 3005A	600633	EPA 6020B	600737
92521581013	YGWA-3I(021021)	EPA 3005A	600633	EPA 6020B	600737
92521581014	YGWA-3D(021021)	EPA 3005A	600633	EPA 6020B	600737
92521581015	YGWA-30I(021121)	EPA 3005A	600633	EPA 6020B	600737
92521581016	FB-01(021121)	EPA 3005A	600633	EPA 6020B	600737
92521581017	EB-01(021121)	EPA 3005A	600633	EPA 6020B	600737
92521578010	YGWA-1I (021221)	EPA 3005A	601867	EPA 6020B	601989
92521578011	YGWA-1D (021221)	EPA 3005A	601867	EPA 6020B	601989
92521578001	EB-02 (021021)	EPA 7470A	600023	EPA 7470A	600226
92521578002	YGWA-14S (021021)	EPA 7470A	600023	EPA 7470A	600226
92521578003	DUP-1 (021021)	EPA 7470A	600023	EPA 7470A	600226
92521581001	YGWA-5D (020821)	EPA 7470A	600356	EPA 7470A	600864
92521581002	DUP-01(020821)	EPA 7470A	600356	EPA 7470A	600864
92521581003	YGWA-5I (020821)	EPA 7470A	600356	EPA 7470A	600864
92521581004	YGWA-39 (021021)	EPA 7470A	600356	EPA 7470A	600864
92521581005	YGWA-40 (021021)	EPA 7470A	600356	EPA 7470A	600864
92521581006	FB-01(021021)	EPA 7470A	600356	EPA 7470A	600864

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES AMA
Pace Project No.: 92521581

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92521581007	YGWA-20S (020921)	EPA 7470A	600356	EPA 7470A	600864
92521581008	YGWA-4I(020921)	EPA 7470A	600356	EPA 7470A	600864
92521581009	YGWA-17S(020921)	EPA 7470A	600356	EPA 7470A	600864
92521581010	YGWA-18S(020921)	EPA 7470A	600356	EPA 7470A	600864
92521581011	YGWA-18I(020921)	EPA 7470A	600356	EPA 7470A	600864
92521581012	YGWA-21I(020921)	EPA 7470A	600356	EPA 7470A	600864
92521581013	YGWA-3I(021021)	EPA 7470A	600356	EPA 7470A	600864
92521581014	YGWA-3D(021021)	EPA 7470A	600356	EPA 7470A	600864
92521581015	YGWA-30I(021121)	EPA 7470A	600356	EPA 7470A	600864
92521581016	FB-01(021121)	EPA 7470A	600356	EPA 7470A	600864
92521581017	EB-01(021121)	EPA 7470A	600356	EPA 7470A	600864
92521578010	YGWA-1I (021221)	EPA 7470A	601295	EPA 7470A	601814
92521578011	YGWA-1D (021221)	EPA 7470A	601295	EPA 7470A	601814
92521578001	EB-02 (021021)	EPA 300.0 Rev 2.1 1993	599663		
92521578002	YGWA-14S (021021)	EPA 300.0 Rev 2.1 1993	599663		
92521578003	DUP-1 (021021)	EPA 300.0 Rev 2.1 1993	599663		
92521581001	YGWA-5D (020821)	EPA 300.0 Rev 2.1 1993	599663		
92521581002	DUP-01(020821)	EPA 300.0 Rev 2.1 1993	599663		
92521581003	YGWA-5I (020821)	EPA 300.0 Rev 2.1 1993	599663		
92521581004	YGWA-39 (021021)	EPA 300.0 Rev 2.1 1993	599663		
92521581005	YGWA-40 (021021)	EPA 300.0 Rev 2.1 1993	599663		
92521581006	FB-01(021021)	EPA 300.0 Rev 2.1 1993	599663		
92521581007	YGWA-20S (020921)	EPA 300.0 Rev 2.1 1993	599663		
92521581008	YGWA-4I(020921)	EPA 300.0 Rev 2.1 1993	599663		
92521581009	YGWA-17S(020921)	EPA 300.0 Rev 2.1 1993	599663		
92521581010	YGWA-18S(020921)	EPA 300.0 Rev 2.1 1993	599663		
92521581011	YGWA-18I(020921)	EPA 300.0 Rev 2.1 1993	599664		
92521581012	YGWA-21I(020921)	EPA 300.0 Rev 2.1 1993	599664		
92521581013	YGWA-3I(021021)	EPA 300.0 Rev 2.1 1993	599664		
92521581014	YGWA-3D(021021)	EPA 300.0 Rev 2.1 1993	599664		
92521581015	YGWA-30I(021121)	EPA 300.0 Rev 2.1 1993	599664		
92521581016	FB-01(021121)	EPA 300.0 Rev 2.1 1993	599664		
92521581017	EB-01(021121)	EPA 300.0 Rev 2.1 1993	599664		
92521578010	YGWA-1I (021221)	EPA 300.0 Rev 2.1 1993	600235		
92521578011	YGWA-1D (021221)	EPA 300.0 Rev 2.1 1993	600235		

REPORT OF LABORATORY ANALYSIS

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

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

GAPower

Project #:

WO# : 92521581



Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *2/10/21*

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer:

IR Gun ID: 230 Type of Ice: Wet Blue None

Cooler Temp: 21 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 21

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?

Yes No

Yes No

	Comments/Discrepancy:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <i>W</i>	
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.



Item A

Section B
Required Project Information:

Section C
Invoice Information:

Client Information: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: ATLANTA, GA 30114
 Project Name: Yates AWA
 Project #:
 Purchase Order #:
 Requested Due Date:

Report To: Becky Slawer
 Copy To:
 Company Name:
 Address:
 Phone Number:
 Project Manager: kevin.herring@pacorates.com
 Price Profile #: 10840

Analytical Method: GA
 State / Location:

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analyse Test	Residual Chlorine (Y/N)
			START DATE TIME	END DATE TIME					
13	Y600A-SD	WT	08/19/14		1	Unpreserved	App IV Metals Fluoride RAD 8315/8320	GA 6252561	
14		WT							
15		WT							
16		WT							
17		WT							
18		WT							
19		WT							
20		WT							
21									
22									
23									
24									

REMOVED BY / AFT. DATE	DATE	TIME	ACCEPTED BY / AFT. DATE	DATE	TIME	SAMPLE COMMENTS
			<i>Carla Hank</i>	2/19/17		

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Peter Herring
 SIGNATURE OF SAMPLER: *[Signature]*
 DATE signed: 02/10/2017

TEMP In C
 Received on Ice (Y/N)
 Custody Sealed Cooler (Y/N)
 Samples Intact (Y/N)



CHAIN-OF-CUSTODY / Analytical Request Document

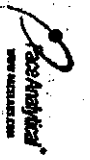
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Client Information: Requested Project Information: Section B Invoice Information: Section C

Company: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: ATLANTA
 State: GA 30114
 Phone: (770) 394-5825
 Project Name: Yama AMA
 Project #: 10940
 Date: 2-9-2021
 Customer: Yama AMA
 Project Manager: Kevin Henning@accustats.com
 Project #: 10940

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9) .	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION		# OF CONTAINERS	Preservatives								Analytes	Residual Chlorine (Y/N)		
				START DATE TIME	END DATE TIME	Unpreserved	H2SO4		HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App IV Metals	Fluoride			RAD 9315/9320	
1	DUP-01(620821)	YGNWA-51	WT	2/8/21		4		4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		42541081
2		YGNWA-39	WT	2/9/21	16:20	4		4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		pH: 5.67
3		YGNWA-40	WT	2/10/21	10:36	4		4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		pH: 5.80
4		YGNWA-41	WT	2/10/21	11:05	4		4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		pH: 5.19
5		YGNWA-308	WT	2/10/21	16:50	4		4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
6		YGNWA-411	WT			4		4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
7		YGNWA-414	WT			4		4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
8		YGNWA-414	WT			4		4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		

Customer: Yama AMA
 Sample ID: YGNWA-411
 Date: 2/10/21
 Location: 1512 Charles Road - Atlanta, GA 30310
 Sampler: Kate Pyrkiewicz / Accustats
 Date Signed: 2-9-2021
 Signature: [Signature of Kate Pyrkiewicz]



0009

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
 Required Client Information:
 Agency: Georgia Power
 Address: 1070 Brandywell Ave
 City: Atlanta, GA 30314
 Phone: (770)394-5526
 Fax: [blank]
 Project Name: Yares AMA
 Project #: [blank]

Section B
 Required Project Information:
 Report To: Becky Steever
 Copy To: [blank]
 Purchase Order #: [blank]
 Project Name: Yares AMA
 Project #: [blank]

Section C
 Invoice Information:
 Attention: [blank]
 Company Name: [blank]
 Address: [blank]
 Pace Order: [blank]
 Pace Project Manager: Kevin Harting@pacestate.com
 Pace Profile #: 10940

ITEM #	SAMPLE ID One character per box. (A-Z, 0-9, /)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	PRESERVATIVES							ANALYSIS TO BE PERFORMED			Residual Chlorine (Y/N)	PH		
				START DATE	END DATE		UNPRESERVED	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App IV Metals	Fluoride			RAD 8315/8320	
1	YGWA-41 (020921)	WT	2/9	1400		4	X									X	X	X		6.25 (5.6)
2	YGWA-17S (010921)	WT	2/9	1415		4	X	X	X							X	X	X		5.02
3	YGWA-18S (020921)	WT	2/9	1355		9	X	X	X							X	X	X		6.12
4	YGWA-181 (020921)	WT	2/9	1400		4	X	X	X							X	X	X		6.95
5	YGWA-211 (010921)	WT	2/9	1410		4	X									X	X	X		6.95
6	YGWA-211 (020921)	WT	2/9	156		4	X	X	X							X	X	X		6.95

B. Stever / Arcalis

2/9/15

PH 6.95

PH 6.12

PH 5.02

PRINT NAME OF SAMPLES: [blank]
 SIGNATURE OF ANALYST: [Signature]
 DATE: 2/9/15
 PH: 6.95



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Client Information:
 Agency: Georgia Power
 Address: 1070 Exchange Mill Ave
 City: Atlanta, GA 30114
 Phone: (770) 234-6325
 Fax: [blank]
 Requested Date/Time: [blank]

Section B

Requested Project Information:
 Report To: Becky Stevens
 Copy To: [blank]
 Project Name: [blank]
 Project #: [blank]

Section C

Invoice Information:
 Attention: [blank]
 Company Name: [blank]
 Address: [blank]
 Pace Order: [blank]
 Pace Project Manager: Kevin Leung@faceanaly.com
 Pace Profile #: 10840

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	PRESERVATIVES							ADDITIONAL TESTS	Residual Chlorine (Y/N)		
				START DATE/TIME	END DATE/TIME		UNPRESERVED	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			Other	
1	Y6WA-3I (02021)	WT	2/p	11/14/04			X	X	X	X	X	X	X	X	X		
2	Y6WA-3D (62021)	WT	2/p	11/15/04			X	X	X	X	X	X	X	X	X		
3	ROCKS	WT					X	X	X	X	X	X	X	X	X		

PH 7.58
 PH 7.81
 014

[Signature]

[Signature]

February 25, 2021

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

RE: Project: YATES AMA-R6/AP-2
Pace Project No.: 92521583

Dear Ms. Petty:

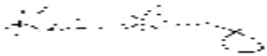
Enclosed are the analytical results for sample(s) received by the laboratory between February 10, 2021 and February 11, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where 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,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Samantha Thomas
Maribel Vital



REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: YATES AMA-R6/AP-2

Pace Project No.: 92521583

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: YATES AMA-R6/AP-2
Pace Project No.: 92521583

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92521583001	PZ-37 (020921)	Water	02/09/21 09:30	02/10/21 17:10
92521583003	YAMW-2 (020921)	Water	02/09/21 12:45	02/10/21 17:10
92521583004	YAMW-4 (020921)	Water	02/09/21 10:20	02/10/21 17:10
92521583005	YAMW-5 (020921)	Water	02/09/21 09:45	02/10/21 17:10
92521583006	YAMW-1 (020921)	Water	02/09/21 14:10	02/10/21 17:10
92521583007	PZ-35(021021)	Water	02/10/21 16:15	02/11/21 13:03

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: YATES AMA-R6/AP-2
Pace Project No.: 92521583

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92521583001	PZ-37 (020921)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521583003	YAMW-2 (020921)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521583004	YAMW-4 (020921)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521583005	YAMW-5 (020921)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521583006	YAMW-1 (020921)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521583007	PZ-35(021021)	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1

PASI-A = Pace Analytical Services - Asheville
PASI-C = Pace Analytical Services - Charlotte
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES AMA-R6/AP-2

Pace Project No.: 92521583

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92521583001	PZ-37 (020921)					
	Performed by	CUSTOME			02/23/21 08:11	
		R				
	pH	5.42	Std. Units		02/23/21 08:11	
EPA 6020B	Antimony	0.00035J	mg/L	0.0030	02/19/21 19:04	
EPA 6020B	Arsenic	0.0015J	mg/L	0.0050	02/19/21 19:04	
EPA 6020B	Barium	0.036	mg/L	0.010	02/19/21 19:04	
EPA 6020B	Beryllium	0.00029J	mg/L	0.0030	02/19/21 19:04	
EPA 6020B	Cadmium	0.00042J	mg/L	0.0025	02/19/21 19:04	
EPA 6020B	Cobalt	0.0023J	mg/L	0.0050	02/19/21 19:04	
EPA 6020B	Lead	0.000088J	mg/L	0.0050	02/19/21 19:04	
EPA 6020B	Lithium	0.024J	mg/L	0.030	02/19/21 19:04	
EPA 6020B	Molybdenum	0.0016J	mg/L	0.010	02/19/21 19:04	
EPA 6020B	Selenium	0.28	mg/L	0.010	02/19/21 19:04	
92521583003	YAMW-2 (020921)					
	Performed by	CUSTOME			02/23/21 08:11	
		R				
	pH	5.81	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.0085J	mg/L	0.010	02/19/21 19:32	
EPA 6020B	Beryllium	0.000051J	mg/L	0.0030	02/19/21 19:32	
EPA 6020B	Chromium	0.0011J	mg/L	0.010	02/19/21 19:32	
EPA 6020B	Cobalt	0.0010J	mg/L	0.0050	02/19/21 19:32	
EPA 6020B	Lead	0.00011J	mg/L	0.0050	02/19/21 19:32	
92521583004	YAMW-4 (020921)					
	Performed by	CUSTOME			02/23/21 08:11	
		R				
	pH	6.96	Std. Units		02/23/21 08:11	
EPA 6020B	Antimony	0.0011J	mg/L	0.0030	02/19/21 19:38	
EPA 6020B	Arsenic	0.0010J	mg/L	0.0050	02/19/21 19:38	
EPA 6020B	Barium	0.020	mg/L	0.010	02/19/21 19:38	
EPA 6020B	Chromium	0.00057J	mg/L	0.010	02/19/21 19:38	
EPA 6020B	Cobalt	0.00063J	mg/L	0.0050	02/19/21 19:38	
EPA 6020B	Lead	0.00054J	mg/L	0.0050	02/19/21 19:38	
EPA 6020B	Lithium	0.018J	mg/L	0.030	02/19/21 19:38	
EPA 6020B	Molybdenum	0.0068J	mg/L	0.010	02/19/21 19:38	
EPA 300.0 Rev 2.1 1993	Fluoride	0.14	mg/L	0.10	02/12/21 17:16	
92521583005	YAMW-5 (020921)					
	Performed by	CUSTOME			02/23/21 08:11	
		R				
	pH	5.34	Std. Units		02/23/21 08:11	
EPA 6020B	Arsenic	0.00095J	mg/L	0.0050	02/19/21 19:44	
EPA 6020B	Barium	0.042	mg/L	0.010	02/19/21 19:44	
EPA 6020B	Beryllium	0.00015J	mg/L	0.0030	02/19/21 19:44	
EPA 6020B	Cadmium	0.00025J	mg/L	0.0025	02/19/21 19:44	
EPA 6020B	Lead	0.000073J	mg/L	0.0050	02/19/21 19:44	
EPA 6020B	Lithium	0.016J	mg/L	0.030	02/19/21 19:44	
EPA 6020B	Selenium	0.060	mg/L	0.010	02/19/21 19:44	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES AMA-R6/AP-2
Pace Project No.: 92521583

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92521583006	YAMW-1 (020921)					
	Performed by	CUSTOME			02/23/21 08:11	
		R				
	pH	6.42	Std. Units		02/23/21 08:11	
EPA 6020B	Antimony	0.00037J	mg/L	0.0030	02/19/21 20:01	
EPA 6020B	Barium	0.039	mg/L	0.010	02/19/21 20:01	
EPA 6020B	Cadmium	0.00013J	mg/L	0.0025	02/19/21 20:01	
EPA 6020B	Chromium	0.0010J	mg/L	0.010	02/19/21 20:01	
EPA 6020B	Cobalt	0.030	mg/L	0.0050	02/19/21 20:01	
EPA 6020B	Lead	0.00019J	mg/L	0.0050	02/19/21 20:01	
EPA 6020B	Lithium	0.021J	mg/L	0.030	02/19/21 20:01	
EPA 6020B	Molybdenum	0.0038J	mg/L	0.010	02/19/21 20:01	
92521583007	PZ-35(021021)					
	Performed by	CUSTOME			02/23/21 08:11	
		R				
	pH	5.53	Std. Units		02/23/21 08:11	
EPA 6020B	Arsenic	0.00096J	mg/L	0.0050	02/19/21 20:07	
EPA 6020B	Barium	0.032	mg/L	0.010	02/19/21 20:07	
EPA 6020B	Beryllium	0.00025J	mg/L	0.0030	02/19/21 20:07	
EPA 6020B	Chromium	0.00060J	mg/L	0.010	02/19/21 20:07	
EPA 6020B	Lead	0.000087J	mg/L	0.0050	02/19/21 20:07	
EPA 6020B	Lithium	0.0012J	mg/L	0.030	02/19/21 20:07	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES AMA-R6/AP-2
Pace Project No.: 92521583

Sample: PZ-37 (020921) Lab ID: 92521583001 Collected: 02/09/21 09:30 Received: 02/10/21 17:10 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/23/21 08:11		
pH	5.42	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00035J	mg/L	0.0030	0.00028	1	02/18/21 11:04	02/19/21 19:04	7440-36-0	
Arsenic	0.0015J	mg/L	0.0050	0.00078	1	02/18/21 11:04	02/19/21 19:04	7440-38-2	
Barium	0.036	mg/L	0.010	0.00071	1	02/18/21 11:04	02/19/21 19:04	7440-39-3	
Beryllium	0.00029J	mg/L	0.0030	0.000046	1	02/18/21 11:04	02/19/21 19:04	7440-41-7	
Cadmium	0.00042J	mg/L	0.0025	0.00012	1	02/18/21 11:04	02/19/21 19:04	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/18/21 11:04	02/19/21 19:04	7440-47-3	
Cobalt	0.0023J	mg/L	0.0050	0.00038	1	02/18/21 11:04	02/19/21 19:04	7440-48-4	
Lead	0.00088J	mg/L	0.0050	0.000036	1	02/18/21 11:04	02/19/21 19:04	7439-92-1	
Lithium	0.024J	mg/L	0.030	0.00081	1	02/18/21 11:04	02/19/21 19:04	7439-93-2	
Molybdenum	0.0016J	mg/L	0.010	0.00069	1	02/18/21 11:04	02/19/21 19:04	7439-98-7	
Selenium	0.28	mg/L	0.010	0.0016	1	02/18/21 11:04	02/19/21 19:04	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/18/21 11:04	02/19/21 19:04	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 12:01	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 16:28	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES AMA-R6/AP-2
Pace Project No.: 92521583

Sample: YAMW-2 (020921) Lab ID: 92521583003 Collected: 02/09/21 12:45 Received: 02/10/21 17:10 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/23/21 08:11		
pH	5.81	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/18/21 11:04	02/19/21 19:32	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/18/21 11:04	02/19/21 19:32	7440-38-2	
Barium	0.0085J	mg/L	0.010	0.00071	1	02/18/21 11:04	02/19/21 19:32	7440-39-3	
Beryllium	0.000051J	mg/L	0.0030	0.000046	1	02/18/21 11:04	02/19/21 19:32	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/18/21 11:04	02/19/21 19:32	7440-43-9	
Chromium	0.0011J	mg/L	0.010	0.00055	1	02/18/21 11:04	02/19/21 19:32	7440-47-3	
Cobalt	0.0010J	mg/L	0.0050	0.00038	1	02/18/21 11:04	02/19/21 19:32	7440-48-4	
Lead	0.00011J	mg/L	0.0050	0.000036	1	02/18/21 11:04	02/19/21 19:32	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/18/21 11:04	02/19/21 19:32	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/18/21 11:04	02/19/21 19:32	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/18/21 11:04	02/19/21 19:32	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/18/21 11:04	02/19/21 19:32	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 12:06	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 17:00	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES AMA-R6/AP-2
Pace Project No.: 92521583

Sample: YAMW-4 (020921) **Lab ID: 92521583004** Collected: 02/09/21 10:20 Received: 02/10/21 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/23/21 08:11		
pH	6.96	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0011J	mg/L	0.0030	0.00028	1	02/18/21 11:04	02/19/21 19:38	7440-36-0	
Arsenic	0.0010J	mg/L	0.0050	0.00078	1	02/18/21 11:04	02/19/21 19:38	7440-38-2	
Barium	0.020	mg/L	0.010	0.00071	1	02/18/21 11:04	02/19/21 19:38	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/18/21 11:04	02/19/21 19:38	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/18/21 11:04	02/19/21 19:38	7440-43-9	
Chromium	0.00057J	mg/L	0.010	0.00055	1	02/18/21 11:04	02/19/21 19:38	7440-47-3	
Cobalt	0.00063J	mg/L	0.0050	0.00038	1	02/18/21 11:04	02/19/21 19:38	7440-48-4	
Lead	0.00054J	mg/L	0.0050	0.000036	1	02/18/21 11:04	02/19/21 19:38	7439-92-1	
Lithium	0.018J	mg/L	0.030	0.00081	1	02/18/21 11:04	02/19/21 19:38	7439-93-2	
Molybdenum	0.0068J	mg/L	0.010	0.00069	1	02/18/21 11:04	02/19/21 19:38	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/18/21 11:04	02/19/21 19:38	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/18/21 11:04	02/19/21 19:38	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 12:08	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	0.14	mg/L	0.10	0.050	1		02/12/21 17:16	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES AMA-R6/AP-2
Pace Project No.: 92521583

Sample: YAMW-5 (020921) **Lab ID: 92521583005** Collected: 02/09/21 09:45 Received: 02/10/21 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/23/21 08:11		
pH	5.34	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/18/21 11:04	02/19/21 19:44	7440-36-0	
Arsenic	0.00095J	mg/L	0.0050	0.00078	1	02/18/21 11:04	02/19/21 19:44	7440-38-2	
Barium	0.042	mg/L	0.010	0.00071	1	02/18/21 11:04	02/19/21 19:44	7440-39-3	
Beryllium	0.00015J	mg/L	0.0030	0.000046	1	02/18/21 11:04	02/19/21 19:44	7440-41-7	
Cadmium	0.00025J	mg/L	0.0025	0.00012	1	02/18/21 11:04	02/19/21 19:44	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/18/21 11:04	02/19/21 19:44	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/18/21 11:04	02/19/21 19:44	7440-48-4	
Lead	0.000073J	mg/L	0.0050	0.000036	1	02/18/21 11:04	02/19/21 19:44	7439-92-1	
Lithium	0.016J	mg/L	0.030	0.00081	1	02/18/21 11:04	02/19/21 19:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/18/21 11:04	02/19/21 19:44	7439-98-7	
Selenium	0.060	mg/L	0.010	0.0016	1	02/18/21 11:04	02/19/21 19:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/18/21 11:04	02/19/21 19:44	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 12:15	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 17:32	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES AMA-R6/AP-2
Pace Project No.: 92521583

Sample: YAMW-1 (020921) **Lab ID: 92521583006** Collected: 02/09/21 14:10 Received: 02/10/21 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
------------	---------	-------	--------------	-----	----	----------	----------	---------	------

Field Data

Analytical Method:
Pace Analytical Services - Charlotte

Performed by	CUSTOMER				1		02/23/21 08:11		
pH	6.42	Std. Units			1		02/23/21 08:11		

6020 MET ICPMS

Analytical Method: EPA 6020B Preparation Method: EPA 3005A
Pace Analytical Services - Peachtree Corners, GA

Antimony	0.00037J	mg/L	0.0030	0.00028	1	02/18/21 11:04	02/19/21 20:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/18/21 11:04	02/19/21 20:01	7440-38-2	
Barium	0.039	mg/L	0.010	0.00071	1	02/18/21 11:04	02/19/21 20:01	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/18/21 11:04	02/19/21 20:01	7440-41-7	
Cadmium	0.00013J	mg/L	0.0025	0.00012	1	02/18/21 11:04	02/19/21 20:01	7440-43-9	
Chromium	0.0010J	mg/L	0.010	0.00055	1	02/18/21 11:04	02/19/21 20:01	7440-47-3	
Cobalt	0.030	mg/L	0.0050	0.00038	1	02/18/21 11:04	02/19/21 20:01	7440-48-4	
Lead	0.00019J	mg/L	0.0050	0.000036	1	02/18/21 11:04	02/19/21 20:01	7439-92-1	
Lithium	0.021J	mg/L	0.030	0.00081	1	02/18/21 11:04	02/19/21 20:01	7439-93-2	
Molybdenum	0.0038J	mg/L	0.010	0.00069	1	02/18/21 11:04	02/19/21 20:01	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/18/21 11:04	02/19/21 20:01	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/18/21 11:04	02/19/21 20:01	7440-28-0	

7470 Mercury

Analytical Method: EPA 7470A Preparation Method: EPA 7470A
Pace Analytical Services - Peachtree Corners, GA

Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 12:18	7439-97-6	
---------	----	------	---------	----------	---	----------------	----------------	-----------	--

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 17:48	16984-48-8	
----------	----	------	------	-------	---	--	----------------	------------	--

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES AMA-R6/AP-2
Pace Project No.: 92521583

Sample: PZ-35(021021) Lab ID: 92521583007 Collected: 02/10/21 16:15 Received: 02/11/21 13:03 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/23/21 08:11		
pH	5.53	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	02/18/21 11:04	02/19/21 20:07	7440-36-0	
Arsenic	0.00096J	mg/L	0.0050	0.00078	1	02/18/21 11:04	02/19/21 20:07	7440-38-2	
Barium	0.032	mg/L	0.010	0.00071	1	02/18/21 11:04	02/19/21 20:07	7440-39-3	
Beryllium	0.00025J	mg/L	0.0030	0.000046	1	02/18/21 11:04	02/19/21 20:07	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/18/21 11:04	02/19/21 20:07	7440-43-9	
Chromium	0.00060J	mg/L	0.010	0.00055	1	02/18/21 11:04	02/19/21 20:07	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/18/21 11:04	02/19/21 20:07	7440-48-4	
Lead	0.00087J	mg/L	0.0050	0.000036	1	02/18/21 11:04	02/19/21 20:07	7439-92-1	
Lithium	0.0012J	mg/L	0.030	0.00081	1	02/18/21 11:04	02/19/21 20:07	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/18/21 11:04	02/19/21 20:07	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/18/21 11:04	02/19/21 20:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/18/21 11:04	02/19/21 20:07	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 12:22	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 22:03	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES AMA-R6/AP-2
Pace Project No.: 92521583

QC Batch: 600920 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92521583001, 92521583003, 92521583004, 92521583005, 92521583006, 92521583007

METHOD BLANK: 3167301 Matrix: Water
Associated Lab Samples: 92521583001, 92521583003, 92521583004, 92521583005, 92521583006, 92521583007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	02/19/21 18:52	
Arsenic	mg/L	ND	0.0050	0.00078	02/19/21 18:52	
Barium	mg/L	ND	0.010	0.00071	02/19/21 18:52	
Beryllium	mg/L	ND	0.0030	0.000046	02/19/21 18:52	
Cadmium	mg/L	ND	0.0025	0.00012	02/19/21 18:52	
Chromium	mg/L	ND	0.010	0.00055	02/19/21 18:52	
Cobalt	mg/L	ND	0.0050	0.00038	02/19/21 18:52	
Lead	mg/L	ND	0.0050	0.000036	02/19/21 18:52	
Lithium	mg/L	ND	0.030	0.00081	02/19/21 18:52	
Molybdenum	mg/L	ND	0.010	0.00069	02/19/21 18:52	
Selenium	mg/L	ND	0.010	0.0016	02/19/21 18:52	
Thallium	mg/L	ND	0.0010	0.00014	02/19/21 18:52	

LABORATORY CONTROL SAMPLE: 3167302

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	111	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.099	99	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.10	105	80-120	
Molybdenum	mg/L	0.1	0.10	104	80-120	
Selenium	mg/L	0.1	0.095	95	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3167303 3167304

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92521583001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Antimony	mg/L	0.00035J	0.1	0.1	0.12	0.11	117	110	75-125	5	20	
Arsenic	mg/L	0.0015J	0.1	0.1	0.11	0.10	106	103	75-125	2	20	
Barium	mg/L	0.036	0.1	0.1	0.14	0.13	104	95	75-125	7	20	
Beryllium	mg/L	0.00029J	0.1	0.1	0.095	0.088	95	88	75-125	7	20	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES AMA-R6/AP-2
Pace Project No.: 92521583

Parameter	Units	3167303		3167304		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92521583001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Cadmium	mg/L	0.00042J	0.1	0.1	0.10	0.10	102	101	75-125	1	20		
Chromium	mg/L	ND	0.1	0.1	0.11	0.10	106	104	75-125	1	20		
Cobalt	mg/L	0.0023J	0.1	0.1	0.10	0.10	103	102	75-125	0	20		
Lead	mg/L	0.000088J	0.1	0.1	0.099	0.097	99	97	75-125	2	20		
Lithium	mg/L	0.024J	0.1	0.1	0.12	0.11	98	88	75-125	8	20		
Molybdenum	mg/L	0.0016J	0.1	0.1	0.11	0.11	108	108	75-125	1	20		
Selenium	mg/L	0.28	0.1	0.1	0.38	0.37	106	92	75-125	4	20		
Thallium	mg/L	ND	0.1	0.1	0.097	0.096	97	96	75-125	1	20		

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES AMA-R6/AP-2

Pace Project No.: 92521583

QC Batch:	600023	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92521583001, 92521583003, 92521583004, 92521583005, 92521583006, 92521583007

METHOD BLANK: 3163248 Matrix: Water
Associated Lab Samples: 92521583001, 92521583003, 92521583004, 92521583005, 92521583006, 92521583007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000078	02/16/21 11:30	

LABORATORY CONTROL SAMPLE: 3163249

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3163250 3163251

Parameter	Units	3163250		3163251		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0024	0.0023	94	92	75-125	2	20	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES AMA-R6/AP-2
Pace Project No.: 92521583

QC Batch: 599664 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: 92521583001, 92521583003, 92521583004, 92521583005, 92521583006, 92521583007

METHOD BLANK: 3161257 Matrix: Water
Associated Lab Samples: 92521583001, 92521583003, 92521583004, 92521583005, 92521583006, 92521583007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	02/12/21 15:24	

LABORATORY CONTROL SAMPLE: 3161258

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.6	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3161259 3161260

Parameter	Units	92521578009 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Fluoride	mg/L	0.066J	2.5	2.5	2.4	2.5	93	99	90-110	6	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3161575 3161576

Parameter	Units	92521143010 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Fluoride	mg/L	0.21	2.5	2.5	2.3	2.5	84	91	90-110	7	10 M1	

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: YATES AMA-R6/AP-2

Pace Project No.: 92521583

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.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES AMA-R6/AP-2
Pace Project No.: 92521583

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92521583001	PZ-37 (020921)				
92521583003	YAMW-2 (020921)				
92521583004	YAMW-4 (020921)				
92521583005	YAMW-5 (020921)				
92521583006	YAMW-1 (020921)				
92521583007	PZ-35(021021)				
92521583001	PZ-37 (020921)	EPA 3005A	600920	EPA 6020B	601040
92521583003	YAMW-2 (020921)	EPA 3005A	600920	EPA 6020B	601040
92521583004	YAMW-4 (020921)	EPA 3005A	600920	EPA 6020B	601040
92521583005	YAMW-5 (020921)	EPA 3005A	600920	EPA 6020B	601040
92521583006	YAMW-1 (020921)	EPA 3005A	600920	EPA 6020B	601040
92521583007	PZ-35(021021)	EPA 3005A	600920	EPA 6020B	601040
92521583001	PZ-37 (020921)	EPA 7470A	600023	EPA 7470A	600226
92521583003	YAMW-2 (020921)	EPA 7470A	600023	EPA 7470A	600226
92521583004	YAMW-4 (020921)	EPA 7470A	600023	EPA 7470A	600226
92521583005	YAMW-5 (020921)	EPA 7470A	600023	EPA 7470A	600226
92521583006	YAMW-1 (020921)	EPA 7470A	600023	EPA 7470A	600226
92521583007	PZ-35(021021)	EPA 7470A	600023	EPA 7470A	600226
92521583001	PZ-37 (020921)	EPA 300.0 Rev 2.1 1993	599664		
92521583003	YAMW-2 (020921)	EPA 300.0 Rev 2.1 1993	599664		
92521583004	YAMW-4 (020921)	EPA 300.0 Rev 2.1 1993	599664		
92521583005	YAMW-5 (020921)	EPA 300.0 Rev 2.1 1993	599664		
92521583006	YAMW-1 (020921)	EPA 300.0 Rev 2.1 1993	599664		
92521583007	PZ-35(021021)	EPA 300.0 Rev 2.1 1993	599664		

REPORT OF LABORATORY ANALYSIS

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



Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 1 of 2
Document No.: F-CAR-CS-033-Rev.07	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

WO#: 92521583

Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____



Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *2/10/21*

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Thermometer: IR Gun ID: *230* Type of Ice: Wet Blue None

Yes No N/A

Cooler Temp: *2.1* Correction Factor: Add/Subtract (°C) *0.0*

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): *2.1*

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		3.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		5.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		6.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		8.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		9.
-Includes Date/Time/ID/Analysis Matrix:	<i>W</i>		
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		10.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



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

Page: **1** of **3**

Section A		Section B		Section C	
Client Information: Client Name: Georgia Power Address: 1070 Bridge Mill Ave City: Marietta, GA 30114 Phone: (770) 394-6596 Project Name: YAES AWA-RS Project #: Requested Date:		Required Project Information: Report To: Becky Sawyer Copy To: Purchase Order #:		Invoice Information: Attention: Company Name: Address: P.O. Box: P.O. Project Manager: kendra.henning@ga.com P.O. Project #: 10040	

ITEM #	DESCRIPTION	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES							ANALYTES TEST			Residual Chlorine (Y/N)
				START DATE TIME	END DATE TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App IV Metals	Fluoride	
1	SAMPLE ID One Character per box. (A-Z, 0-9), - Sample ids must be unique																	
2		WT																
3		WT																
4		WT	29/2/930				4	1										
5		WT																
6		WT																
7		WT																
8		WT																
9		WT																
10		WT																

Signature of Sample Provider: PRINT Name of SAAMPLER: Kate Rokusic SIGNATURE of SAAMPLER: DATE Signed: 2-9-2021		Signature of Custodian: PRINT Name of SAAMPLER: Kate Rokusic SIGNATURE of SAAMPLER: DATE Signed: 2-9-2021	
TEMP In C Received on Ice <input type="checkbox"/> (Y/N) Custody Sealed <input type="checkbox"/> Cooler <input type="checkbox"/> (Y/N) Samples Intact <input type="checkbox"/> (Y/N)		TEMP In C Received on Ice <input type="checkbox"/> (Y/N) Custody Sealed <input type="checkbox"/> Cooler <input type="checkbox"/> (Y/N) Samples Intact <input type="checkbox"/> (Y/N)	



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
 Section B
 Section C

General Client Information:
 Agency: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: Marietta, GA 30114

Requested Project Information:
 Report To: Becky Stever
 Copy To:

Invoice Information:
 Attention:
 Company Name:
 Address:
 State/Zip:
 Project Manager: north.beck@ge.com
 Phone/Fax: 108410

Job Details:
 Job #: 1770384-5326
 Date: 1/22/12
 Project Name: Yates AP-2
 Project #: 108410

ITEM #	DESCRIPTION	WEIGHT	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							RAD 8316/8320	Residual Chlorine (Y/N)		
			START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			Other	
1	YGM-A2 (MVA2)	WT	1/22/12		41	1	X										
2	YGM-A1	WT															
3	YGM-A2	WT															
4	YGM-A1	WT															
5	YGM-A2	WT															
6	YGM-A1	WT															
7	YGM-A2	WT															
8	YGM-A1	WT															
9	YGM-A2	WT															
10	YGM-A1	WT															
11	YGM-A2	WT															
12	YGM-A1	WT															

BS York / Arcata 2/16/12
 Peter Degraves 2/16/12
 Clark Arcata 2/16/12

TEMP In C

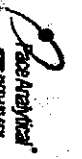
Received on Ice? (Y/N)

Custody Sealed? Cooler? (Y/N)

Samples Intact? (Y/N)

DATE: 2/16/12

Page: 1 of 3
 bac 4



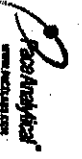
CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A		Section B		Section C	
Required Project Information: Report To: <u>Bobby Shearer</u> Project Name: <u>Yates AMARS</u> Project #: <u> </u>		Required Project Information: Report To: <u>Bobby Shearer</u> Project #: <u> </u>		Invoice Information: Attention: <u> </u> Company Name: <u> </u> Address: <u> </u> Page Order: <u> </u> Page Project Manager: <u>Kevin.Henry@pccetels.com</u> Page Profile #: <u>10840</u>	
Client Information: Name: <u>Georgia Power</u> Address: <u>1070 Empire Mill Ave</u> City: <u>Atlanta, GA 30314</u>		Client Information: Name: <u> </u> Address: <u> </u> City: <u> </u>		Regulatory Agency: <u> </u>	

SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES							ANALYSIS TEST	Y/N	Residual Chlorine (Y/N)	PH
			START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				
YAMM-2	WT		01/01/14	1/05	4											9.2521583	
YAMM-4	WT		01/01/14	1/20	4											PH = 5.81	
YAMM-5	WT		01/01/14	01/15	4											PH = 5.94	
YAMM-1	WT		01/01/14	1/10	4											PH = 6.42	
PR-07	WT																

ADDITIONAL COMMENTS: <u> </u>		RECEIVED BY / AFFILIATION: <u> </u>		DATE: <u> </u>		TIME: <u> </u>		ACCEPTED BY / AFFILIATION: <u> </u>		DATE: <u> </u>		TIME: <u> </u>		SAMPLE CONDITIONS: <u> </u>	
SUPPLIER NAME AND SIGNATURE: <u> </u>		PRINT NAME OF SAMPLER: <u> </u>		SIGNATURE OF SAMPLER: <u> </u>		DATE SIGNED: <u> </u>		TEMP in C: <u> </u>		Received on ice <input type="checkbox"/> (Y/N)		Custody Sealed <input type="checkbox"/> Cooler <input type="checkbox"/> (Y/N)		Samples Intact <input type="checkbox"/> (Y/N)	



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

Section A

Client Information:
 Agency: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: ATLANTA, GA 30114

Section B

Required Project Information:
 Report To: Becky Stever
 Copy To:

Section C

Invoice Information:
 Agency: Georgia Power
 Company Name: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: ATLANTA, GA 30114

Project Name: Yards Area
 Project #: 10940

Order #: 10940
 Order Date: 2/11/15
 Order Description: 10940

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analytical Test			Residual Chlorine (Y/N)
				START DATE	START TIME	END DATE	END TIME				App IV Metals	Fluoride	RAD 8316/8320	
1	P2-35 (over)	WT		2/11/15				4	Unpreserved	X	X	X		
2		WT								X	X	X		
3		WT								X	X	X		
4		WT								X	X	X		
5		WT								X	X	X		
6		WT								X	X	X		
7		WT								X	X	X		
8		WT								X	X	X		
9		WT								X	X	X		
10		WT								X	X	X		
11		WT								X	X	X		
12		WT								X	X	X		
13		WT								X	X	X		
14		WT								X	X	X		
15		WT								X	X	X		
16		WT								X	X	X		
17		WT								X	X	X		
18		WT								X	X	X		
19		WT								X	X	X		
20		WT								X	X	X		
21		WT								X	X	X		
22		WT								X	X	X		
23		WT								X	X	X		
24		WT								X	X	X		
25		WT								X	X	X		
26		WT								X	X	X		
27		WT								X	X	X		
28		WT								X	X	X		
29		WT								X	X	X		
30		WT								X	X	X		

ANALYST INFORMATION

PRINT Name of SAMPLER: **COLE KAPICWICZ**
 SIGNATURE OF SAMPLER: *[Signature]*
 DATE Signed: **2-11-15**

TEMP In C

Received on Ice (Y/N)

Cooler Sealed (Y/N)

Samples Intact (Y/N)

March 05, 2021

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

RE: Project: YATES AMA-R6/AP-2 RADS
Pace Project No.: 92521572

Dear Ms. Petty:

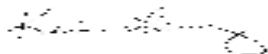
Enclosed are the analytical results for sample(s) received by the laboratory between February 10, 2021 and February 11, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where 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,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Samantha Thomas
Maribel Vital



REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: YATES AMA-R6/AP-2 RADS
Pace Project No.: 92521572

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 #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: YATES AMA-R6/AP-2 RADS

Pace Project No.: 92521572

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92521572001	PZ-37 (020921)	Water	02/09/21 09:30	02/10/21 17:10
92521572003	YAMW-2 (020921)	Water	02/09/21 12:45	02/10/21 17:10
92521572004	YAMW-4 (020921)	Water	02/09/21 10:20	02/10/21 17:10
92521572005	YAMW-5 (020921)	Water	02/09/21 09:45	02/10/21 17:10
92521572006	YAMW-1 (020921)	Water	02/09/21 14:10	02/10/21 17:10
92521572007	PZ-35(021021)	Water	02/10/21 16:15	02/11/21 13:03

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: YATES AMA-R6/AP-2 RADS
Pace Project No.: 92521572

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92521572001	PZ-37 (020921)	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521572003	YAMW-2 (020921)	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521572004	YAMW-4 (020921)	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521572005	YAMW-5 (020921)	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521572006	YAMW-1 (020921)	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521572007	PZ-35(021021)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES AMA-R6/AP-2 RADS
Pace Project No.: 92521572

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521572001	PZ-37 (020921)					
EPA 9315	Radium-226	0.561 ± 0.213 (0.207) C:68% T:NA	pCi/L		03/02/21 11:26	
EPA 9320	Radium-228	0.955 ± 0.451 (0.768) C:76% T:88%	pCi/L		02/24/21 15:31	
Total Radium Calculation	Total Radium	1.52 ± 0.664 (0.975)	pCi/L		03/02/21 16:35	
92521572003	YAMW-2 (020921)					
EPA 9315	Radium-226	0.112 ± 0.123 (0.249) C:83% T:NA	pCi/L		03/02/21 11:24	
EPA 9320	Radium-228	0.380 ± 0.425 (0.891) C:73% T:84%	pCi/L		02/24/21 15:31	
Total Radium Calculation	Total Radium	0.492 ± 0.548 (1.14)	pCi/L		03/02/21 16:35	
92521572004	YAMW-4 (020921)					
EPA 9315	Radium-226	0.186 ± 0.126 (0.202) C:81% T:NA	pCi/L		03/02/21 11:23	
EPA 9320	Radium-228	0.473 ± 0.414 (0.837) C:72% T:86%	pCi/L		02/24/21 15:31	
Total Radium Calculation	Total Radium	0.659 ± 0.540 (1.04)	pCi/L		03/02/21 16:35	
92521572005	YAMW-5 (020921)					
EPA 9315	Radium-226	0.405 ± 0.214 (0.350) C:78% T:NA	pCi/L		03/01/21 19:11	
EPA 9320	Radium-228	0.664 ± 0.477 (0.936) C:73% T:84%	pCi/L		02/24/21 15:32	
Total Radium Calculation	Total Radium	1.07 ± 0.691 (1.29)	pCi/L		03/02/21 16:39	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES AMA-R6/AP-2 RADS

Pace Project No.: 92521572

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521572006	YAMW-1 (020921)					
EPA 9315	Radium-226	0.159 ± 0.136 (0.251) C:76% T:NA	pCi/L		03/02/21 07:34	
EPA 9320	Radium-228	0.707 ± 0.491 (0.957) C:71% T:83%	pCi/L		02/24/21 15:32	
Total Radium Calculation	Total Radium	0.866 ± 0.627 (1.21)	pCi/L		03/02/21 16:39	
92521572007	PZ-35(021021)					
EPA 9315	Radium-226	0.0238 ± 0.0799 (0.201) C:92% T:NA	pCi/L		03/05/21 07:14	
EPA 9320	Radium-228	0.522 ± 0.370 (0.721) C:76% T:97%	pCi/L		02/24/21 15:32	
Total Radium Calculation	Total Radium	0.546 ± 0.450 (0.922)	pCi/L		03/05/21 14:01	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA-R6/AP-2 RADS

Pace Project No.: 92521572

Sample: PZ-37 (020921) **Lab ID: 92521572001** Collected: 02/09/21 09:30 Received: 02/10/21 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.561 ± 0.213 (0.207) C:68% T:NA	pCi/L	03/02/21 11:26	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.955 ± 0.451 (0.768) C:76% T:88%	pCi/L	02/24/21 15:31	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.52 ± 0.664 (0.975)	pCi/L	03/02/21 16:35	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA-R6/AP-2 RADS

Pace Project No.: 92521572

Sample: YAMW-2 (020921) **Lab ID: 92521572003** Collected: 02/09/21 12:45 Received: 02/10/21 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.112 ± 0.123 (0.249) C:83% T:NA	pCi/L	03/02/21 11:24	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.380 ± 0.425 (0.891) C:73% T:84%	pCi/L	02/24/21 15:31	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.492 ± 0.548 (1.14)	pCi/L	03/02/21 16:35	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA-R6/AP-2 RADS

Pace Project No.: 92521572

Sample: YAMW-4 (020921) **Lab ID: 92521572004** Collected: 02/09/21 10:20 Received: 02/10/21 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.186 ± 0.126 (0.202) C:81% T:NA	pCi/L	03/02/21 11:23	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.473 ± 0.414 (0.837) C:72% T:86%	pCi/L	02/24/21 15:31	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.659 ± 0.540 (1.04)	pCi/L	03/02/21 16:35	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA-R6/AP-2 RADS

Pace Project No.: 92521572

Sample: YAMW-5 (020921) **Lab ID: 92521572005** Collected: 02/09/21 09:45 Received: 02/10/21 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.405 ± 0.214 (0.350) C:78% T:NA	pCi/L	03/01/21 19:11	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.664 ± 0.477 (0.936) C:73% T:84%	pCi/L	02/24/21 15:32	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.07 ± 0.691 (1.29)	pCi/L	03/02/21 16:39	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA-R6/AP-2 RADS

Pace Project No.: 92521572

Sample: YAMW-1 (020921) **Lab ID: 92521572006** Collected: 02/09/21 14:10 Received: 02/10/21 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.159 ± 0.136 (0.251) C:76% T:NA	pCi/L	03/02/21 07:34	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.707 ± 0.491 (0.957) C:71% T:83%	pCi/L	02/24/21 15:32	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.866 ± 0.627 (1.21)	pCi/L	03/02/21 16:39	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA-R6/AP-2 RADS

Pace Project No.: 92521572

Sample: PZ-35(021021) **Lab ID: 92521572007** Collected: 02/10/21 16:15 Received: 02/11/21 13:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0238 ± 0.0799 (0.201) C:92% T:NA	pCi/L	03/05/21 07:14	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.522 ± 0.370 (0.721) C:76% T:97%	pCi/L	02/24/21 15:32	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.546 ± 0.450 (0.922)	pCi/L	03/05/21 14:01	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AMA-R6/AP-2 RADS

Pace Project No.: 92521572

QC Batch:	435459	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92521572001, 92521572003, 92521572004, 92521572005, 92521572006

METHOD BLANK: 2102227 Matrix: Water

Associated Lab Samples: 92521572001, 92521572003, 92521572004, 92521572005, 92521572006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.276 ± 0.140 (0.180) C:89% T:NA	pCi/L	03/02/21 07:53	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AMA-R6/AP-2 RADS

Pace Project No.: 92521572

QC Batch: 435781

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92521572007

METHOD BLANK: 2103737

Matrix: Water

Associated Lab Samples: 92521572007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0349 ± 0.0874 (0.210) C:95% T:NA	pCi/L	03/05/21 07:14	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AMA-R6/AP-2 RADS

Pace Project No.: 92521572

QC Batch: 435116

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92521572001, 92521572003, 92521572004, 92521572005, 92521572006, 92521572007

METHOD BLANK: 2100680

Matrix: Water

Associated Lab Samples: 92521572001, 92521572003, 92521572004, 92521572005, 92521572006, 92521572007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.356 ± 0.369 (0.763) C:72% T:87%	pCi/L	02/24/21 15:29	

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: YATES AMA-R6/AP-2 RADS

Pace Project No.: 92521572

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.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES AMA-R6/AP-2 RADS
Pace Project No.: 92521572

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92521572001	PZ-37 (020921)	EPA 9315	435459		
92521572003	YAMW-2 (020921)	EPA 9315	435459		
92521572004	YAMW-4 (020921)	EPA 9315	435459		
92521572005	YAMW-5 (020921)	EPA 9315	435459		
92521572006	YAMW-1 (020921)	EPA 9315	435459		
92521572007	PZ-35(021021)	EPA 9315	435781		
92521572001	PZ-37 (020921)	EPA 9320	435116		
92521572003	YAMW-2 (020921)	EPA 9320	435116		
92521572004	YAMW-4 (020921)	EPA 9320	435116		
92521572005	YAMW-5 (020921)	EPA 9320	435116		
92521572006	YAMW-1 (020921)	EPA 9320	435116		
92521572007	PZ-35(021021)	EPA 9320	435116		
92521572001	PZ-37 (020921)	Total Radium Calculation	436928		
92521572003	YAMW-2 (020921)	Total Radium Calculation	436928		
92521572004	YAMW-4 (020921)	Total Radium Calculation	436928		
92521572005	YAMW-5 (020921)	Total Radium Calculation	436930		
92521572006	YAMW-1 (020921)	Total Radium Calculation	436930		
92521572007	PZ-35(021021)	Total Radium Calculation	437456		

REPORT OF LABORATORY ANALYSIS

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

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

GAPower

Project #: **WO# : 92521572**

Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____



Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents *2/10/21*

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Thermometer: IR Gun ID: 230 Type of Ice: Wet Blue None

Yes No N/A

Cooler Temp: 24 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 24

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

Yes No

	Comments/Discrepancy:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <i>W</i>	
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



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

Section A
 Client Information:
 Client: Georgia Power
 Project: 1070 Bridge Mill Ave
 Location: GA 30114
 Contact: (770) 304-4936
 Fax: [blank]
 Job Number: [blank]

Section B
 Required Project Information:
 Report To: Emily Stever
 Copy To: [blank]
 Purchase Order #: Values AAA-66
 Project Name: Values AAA-66
 Project #: [blank]

Section C
 Invoice Information:
 Attention: [blank]
 Company Name: [blank]
 Address: [blank]
 City/State: [blank]
 Zip: [blank]
 Project Manager: Kevin.Manning@ge.com
 Project #: 10840
 State: GA

SAMPLE ID
 One Character per box.
 (A-Z, 0-9 /, -)
 Sample IDs must be unique

MATRIX CODE (see valid codes to left)
SAMPLE TYPE (G=GRAB C=COMP)
COLLECTED
 START DATE TIME END DATE TIME
SAMPLE TEMP AT COLLECTION
 # OF CONTAINERS
 Unpreserved
 H2SO4
 HNO3
 HCl
 NaOH
 Na2S2O3
 Methanol
 Other
Analyses Test Y/N
 App IV Metals
 Fluoride
 RAD 9315/9320

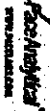
Residual Chlorine (Y/N)
 Received on Ice (Y/N)
 Custody Sealed Cooler (Y/N)
 Samples Intact (Y/N)

ITEM #	MATRIX CODE	SAMPLE TYPE	START DATE TIME	END DATE TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	UNPRESERVED	PRESERVATIVES	ANALYSES TEST	RESIDUAL CHLORINE (Y/N)	RECEIVED ON ICE (Y/N)	CUSTODY SEALED COOLER (Y/N)	SAMPLES INTACT (Y/N)
1	WT												
2	WT												
3	WT												
4	WT												
5	WT												
6	WT												
7	WT												
8	WT												
9	WT												
10	WT												
11	WT												
12	WT												

SAMPLER NAME AND SIGNATURE
 PRINT NAME of SAMPLER: **Kate Roknusic**
 SIGNATURE of SAMPLER: *[Signature]*
 DATE Signed: **2-9-2021**

LABORATORY USE ONLY
 Sample ID: **2921930**
 Project Name: **GA 30114**
 Date: **2/9/21**

Page: **1** of **3**



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Client Information:
 Client Name: Gaslight Power
 Address: 1070 Bridge Mill Ave
 City: San Jose, CA 95128
 Phone: (408) 661-8888
 Fax: (408) 661-8888

Project Information:
 Project Name: YAES AP-2
 Project #:
 Requested Project Information:
 Report To: Ricky Steiner
 Copy To:
 Analytical Request Order #:
 Analytical Request Order #:
 Analytical Request Order #:

Invoice Information:
 Invoiced Date:
 Invoice #:
 Analytical Request Order #:
 Analytical Request Order #:
 Analytical Request Order #:

ITEM #	DESCRIPTION	WEIGHT	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES									App IV Metals	Fluoride	RAD 9316/9320	Residual Chlorine (Y/N)		
			START DATE	END DATE			UNPRESERVED	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other							
1	REG. (MILK)	WT				1															
2	REG. (MILK)	WT	8/12/24			1															
3	REG. (MILK)	WT				1															
4	REG. (MILK)	WT				1															
5	REG. (MILK)	WT				1															
6	REG. (MILK)	WT				1															
7	REG. (MILK)	WT				1															
8	REG. (MILK)	WT				1															
9	REG. (MILK)	WT				1															
10	REG. (MILK)	WT				1															
11	REG. (MILK)	WT				1															
12	REG. (MILK)	WT				1															

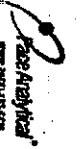
RESERVED FOR CLIENT USE

DATE TIME

TEMP In C

Project Name: Gaslight Power
 Site Name: 1070 Bridge Mill Ave
 Date: 8/12/24
 Time: 12:40
 Analyst: Ricky Steiner

Page: 4 of 4



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Item A

Section B

Section C

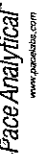
Client Information: **Georgia Power**
 Address: **1070 Bridge NE Ave**
 City: **Atlanta, GA 30114**
 Phone: **(770) 534-4526** Fax: _____
 Project Name: **Value Add-RS**
 Project #: _____
 Purchase Order #: _____
 Address: _____
 Company Name: _____
 Attention: _____
 Project Manager: **Kevin Hentley@gepower.com**
 Project #: **10640**
 Regulatory Agency: **GA**

SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analytes Test	Residual Chlorine (Y/N)	pH	
			START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				Other
YAMM-2	WT		10/20	10/20	4												pH = 5.81
YAMM-4	WT		10/20	10/20	4												pH = 5.94
YAMM-5	WT		10/20	10/20	4												pH = 6.42
YAMM-1	WT																
PRGR	WT																

Additional Comments: _____
 Required by Affiliation: _____
 Date: _____
 Accepted by Affiliation: _____
 Date: _____
 Temp in C: _____
 Received on ice (Y/N): _____
 Custody Sealed (Y/N): _____
 Cooler (Y/N): _____
 Samples Intact (Y/N): _____

SAMPLER NAME AND SIGNATURE
 PRINT NAME OF SAMPLER: **Peter Hentley**
 SIGNATURE OF SAMPLER: *[Signature]*
 DATE SIGNED: **10/20/10**

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: JJY
Date: 2/19/2021
Worklist: 58877
Matrix: DW

Method Blank Assessment	
MB Sample ID	2110227
MB Concentration:	0.276
M/B Counting Uncertainty:	0.134
MB MDC:	0.180
MB Numerical Performance Indicator:	4.05
MB Status vs. Numerical Indicator:	N/A
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	LCSD (Y or N)?	
	LCSD	Y
Count Date:	3/2/2021	LCSD58877
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.040	24.040
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.501	0.501
Target Conc. (pCi/L, g, F):	4.789	4.798
Uncertainty (Calculated):	0.057	0.058
Result (pCi/L, g, F):	5.300	4.626
LCSD/LCSD Counting Uncertainty (pCi/L, g, F):	0.555	0.517
Numerical Performance Indicator:	1.80	-0.65
Percent Recovery:	110.67%	96.42%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment	
Sample I.D.:	LCSD58877
Duplicate Sample I.D.:	LCSD58877
Sample Result (pCi/L, g, F):	5.300
Sample Result Counting Uncertainty (pCi/L, g, F):	0.555
Sample Duplicate Result (pCi/L, g, F):	4.626
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	0.517
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	1.742
Duplicate Numerical Performance Indicator:	13.77%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

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

Comments:

*The method blank result is below the reporting limit for this analysis and is acceptable.

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date: Sample I.D. Sample MS I.D. Sample MSD I.D.		
MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated):		
Sample Result: Sample Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Result: Matrix Spike Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F): MS Numerical Performance Indicator: MSD Numerical Performance Indicator:		
MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D. Sample MS I.D. Sample MSD I.D. Sample Matrix Spike Result: Matrix Spike Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F): Duplicate Numerical Performance Indicator: (Based on the Percent Recoveries) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:

Handwritten notes: "Matrix Spike", "MS/MSD", and "LAM 3/2/21".

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.



Test: Ra-228
Analyst: JJY
Date: 2/19/2021
Worklist: 58877
Matrix: DW

Method Blank Assessment	
MB Sample ID	2102227
MB Concentration:	0.276
M/B Counting Uncertainty:	0.134
MB MDC:	0.180
MB Numerical Performance Indicator:	4.05
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment		
LCS#	Y or N?	N
LCS58877		LCS58877
Count Date:	3/2/2021	
Decay Corrected Spike Concentration (pCi/mL):	19.033	
Volume Used (mL):	24.040	
Aliquot Volume (L, g, F):	0.10	
Target Conc. (pCi/L, g, F):	0.502	
Uncertainty (Calculated):	4.789	
Result (pCi/L, g, F):	0.057	
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	5.300	
Numerical Performance Indicator:	0.555	
Percent Recovery:	1.80	
Status vs Numerical Indicator:	110.67%	
Status vs Recovery:	N/A	
Upper % Recovery Limits:	Pass	
Lower % Recovery Limits:	125%	
	75%	

Duplicate Sample Assessment	
Sample I.D.:	92520873006
Duplicate Sample I.D.:	92520873006DUP
Sample Result (pCi/L, g, F):	0.162
Sample Result Counting Uncertainty (pCi/L, g, F):	0.140
Sample Duplicate Result (pCi/L, g, F):	0.006
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.075
Are sample and/or duplicate results below RL?	See Below ##
Duplicate Numerical Performance Indicator:	1.924
Duplicate Status vs Numerical Indicator:	185.80%
Duplicate Status vs RPD:	N/A
% RPD Limit:	Fail**
	25%

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

Comments:
*The method blank result is below the reporting limit for this analysis and is acceptable.

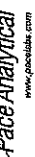
**Batch must be re-prepped due to unacceptable precision: N/A WAM 3/2/21

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:			
Sample I.D.:			
Sample MS I.D.:			
Sample MSD I.D.:			
Spike I.D.:			
MS/MSD Decay Corrected Spike Concentration (pCi/mL):			
Spike Volume Used in MS (mL):			
Spike Volume Used in MSD (mL):			
MS Aliquot (L, g, F):			
MSD Aliquot (L, g, F):			
MS Target Conc. (pCi/L, g, F):			
MSD Target Conc. (pCi/L, g, F):			
MS Spike Uncertainty (calculated):			
MSD Spike Uncertainty (calculated):			
Sample Result:			
Sample Result Counting Uncertainty (pCi/L, g, F):			
Sample Matrix Spike Result:			
Sample Matrix Spike Counting Uncertainty (pCi/L, g, F):			
Sample Matrix Spike Duplicate Result:			
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):			
MS Numerical Performance Indicator:			
MSD Numerical Performance Indicator:			
MS Percent Recovery:			
MSD Percent Recovery:			
MS Status vs Numerical Indicator:			
MSD Status vs Numerical Indicator:			
MS Status vs Recovery:			
MSD Status vs Recovery:			
MS/MSD Upper % Recovery Limits:			
MS/MSD Lower % Recovery Limits:			

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Sample Matrix Spike Result:	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	
MS/MSD Duplicate Status vs Numerical Indicator:	
MS/MSD Duplicate Status vs RPD:	
% RPD Limit:	

Handwritten notes: "Matrix Spike/Matrix Spike Duplicate Sample Assessment" and "WAM 3/2/21".

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 2/22/2021
Worklist: 58851
Matrix: WT

Method Blank Assessment	
MB Sample ID	2100680
MB concentration:	0.356
MB 2 Sigma CSU:	0.369
MB MDC:	0.763
MB Numerical Performance Indicator:	1.89
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCS/D (Y or N)?	Y
Count Date:		LCS58851	2/24/2021
Spike ID:		21-003	38.698
Decay Corrected Spike Concentration (pCi/mL):		0.10	0.10
Volume Used (mL):		0.821	0.821
Aliquot Volume (L, g, F):		4.759	4.711
Target Conc. (pCi/L, g, F):		0.233	0.231
Uncertainty (Calculated):		4.358	5.382
Result (pCi/L, g, F):		1.031	1.179
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):		-0.74	1.09
Numerical Performance Indicator:		91.58%	114.23%
Percent Recovery:		N/A	N/A
Status vs Numerical Indicator:		Pass	Pass
Upper % Recovery Limits:		135%	135%
Lower % Recovery Limits:		60%	60%

Duplicate Sample Assessment	
Sample ID:	LCS58851
Duplicate Sample ID:	LCS58851
Sample Result (pCi/L, g, F):	4.358
Sample Duplicate Result (pCi/L, g, F):	1.031
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	5.382
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.179
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-1.281
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	22.01%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

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

Comments:

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:			
Sample I.D.:			
Sample MS I.D.:			
Sample MSD I.D.:			
Spike I.D.:			
MS/MSD Decay Corrected Spike Concentration (pCi/mL):			
Spike Volume Used in MS (mL):			
Spike Volume Used in MSD (mL):			
MS Aliquot (L, g, F):			
MS Target Conc. (pCi/L, g, F):			
MSD Aliquot (L, g, F):			
MSD Target Conc. (pCi/L, g, F):			
MS Spike Uncertainty (calculated):			
MSD Spike Uncertainty (calculated):			
Sample Result:			
Sample Result 2 Sigma CSU (pCi/L, g, F):			
Sample Matrix Spike Result:			
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):			
Sample Matrix Spike Duplicate Result:			
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):			
MS Numerical Performance Indicator:			
MSD Numerical Performance Indicator:			
MS Percent Recovery:			
MSD Percent Recovery:			
MS Status vs Numerical Indicator:			
MSD Status vs Numerical Indicator:			
MS Status vs Recovery:			
MSD Status vs Recovery:			
MS/MSD Upper % Recovery Limits:			
MS/MSD Lower % Recovery Limits:			

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Sample Matrix Spike Result:	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	
MS/MSD Duplicate Status vs Numerical Indicator:	
MS/MSD Duplicate Status vs RPD:	
% RPD Limit:	

Handwritten notes:
0.1031
0.1031
0.1031

March 19, 2021

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

RE: Project: YATES R6/AMA RADS
Pace Project No.: 92521564

Dear Ms. Petty:

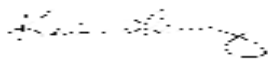
Enclosed are the analytical results for sample(s) received by the laboratory on February 10, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise 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,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Samantha Thomas
Maribel Vital



REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: YATES R6/AMA RADS
Pace Project No.: 92521564

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 #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: YATES R6/AMA RADS
Pace Project No.: 92521564

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92521564001	YGWC-38 (020921)	Water	02/09/21 13:50	02/10/21 17:10
92521564002	YGWC-41 (021021)	Water	02/10/21 13:25	02/10/21 17:10
92521564003	YGWC-42 (021021)	Water	02/10/21 14:30	02/10/21 17:10
92521564004	YGWC-43 (020921)	Water	02/09/21 15:30	02/10/21 17:10
92521564005	EB-01(021021)	Water	02/10/21 13:30	02/10/21 17:10
92521564006	YGWC-23S (020921)	Water	02/09/21 11:10	02/10/21 17:10
92521564007	YGWC-49 (020921)	Water	02/09/21 15:15	02/10/21 17:10
92521564008	YGWC-24SA (020921)	Water	02/09/21 16:10	02/10/21 17:10
92521564009	DUP-02 (020921)	Water	02/09/21 00:00	02/10/21 17:10
92521564010	YGWC-36A (021021)	Water	02/10/21 14:30	02/10/21 17:10
92521564011	YGWC-38 (020921) MS	Water	02/09/21 13:50	02/10/21 17:10
92521564012	YGWC-38 (020921) MSD	Water	02/09/21 13:50	02/10/21 17:10

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: YATES R6/AMA RADS
Pace Project No.: 92521564

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92521564001	YGWC-38 (020921)	EPA 9315	MK1	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521564002	YGWC-41 (021021)	EPA 9315	MK1	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521564003	YGWC-42 (021021)	EPA 9315	MK1	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521564004	YGWC-43 (020921)	EPA 9315	MK1	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92521564005	EB-01(021021)	EPA 9315	MK1	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521564006	YGWC-23S (020921)	EPA 9315	MK1	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521564007	YGWC-49 (020921)	EPA 9315	MK1	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521564008	YGWC-24SA (020921)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92521564009	DUP-02 (020921)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92521564010	YGWC-36A (021021)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92521564011	YGWC-38 (020921) MS	EPA 9315	MK1	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92521564012	YGWC-38 (020921) MSD	EPA 9315	MK1	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES R6/AMA RADS
Pace Project No.: 92521564

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521564001	YGWC-38 (020921)					
EPA 9315	Radium-226	0.302 ± 0.160 (0.232)	pCi/L		03/05/21 07:44	
EPA 9320	Radium-228	C:89% T:NA 0.320 ± 0.348 (0.724)	pCi/L		02/26/21 14:46	
Total Radium Calculation	Total Radium	C:80% T:82% 0.626 ± 0.580 (1.07)	pCi/L		03/05/21 14:01	
92521564002	YGWC-41 (021021)					
EPA 9315	Radium-226	0.124 ± 0.136 (0.280)	pCi/L		03/05/21 07:44	
EPA 9320	Radium-228	C:87% T:NA 0.424 ± 0.338 (0.664)	pCi/L		02/26/21 14:46	
Total Radium Calculation	Total Radium	C:76% T:88% 0.548 ± 0.474 (0.944)	pCi/L		03/05/21 14:01	
92521564003	YGWC-42 (021021)					
EPA 9315	Radium-226	0.259 ± 0.201 (0.383)	pCi/L		03/05/21 07:44	
EPA 9320	Radium-228	C:79% T:NA 0.353 ± 0.350 (0.718)	pCi/L		02/26/21 14:46	
Total Radium Calculation	Total Radium	C:75% T:85% 0.612 ± 0.551 (1.10)	pCi/L		03/05/21 14:01	
92521564004	YGWC-43 (020921)					
EPA 9315	Radium-226	4.91 ± 0.852 (0.170)	pCi/L		03/18/21 10:30	
EPA 9320	Radium-228	C:88% T:NA 1.47 ± 0.584 (0.904)	pCi/L		02/26/21 14:46	
Total Radium Calculation	Total Radium	C:73% T:74% 6.38 ± 1.44 (1.07)	pCi/L		03/18/21 14:07	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES R6/AMA RADS
Pace Project No.: 92521564

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521564005	EB-01(021021)					
EPA 9315	Radium-226	0.0250 ± 0.103 (0.259) C:88% T:NA	pCi/L		03/05/21 07:45	
EPA 9320	Radium-228	0.699 ± 0.416 (0.774) C:77% T:86%	pCi/L		02/26/21 14:46	
Total Radium Calculation	Total Radium	0.724 ± 0.519 (1.03)	pCi/L		03/05/21 14:01	
92521564006	YGWC-23S (020921)					
EPA 9315	Radium-226	0.0999 ± 0.121 (0.250) C:78% T:NA	pCi/L		03/05/21 07:38	
EPA 9320	Radium-228	0.364 ± 0.363 (0.747) C:76% T:82%	pCi/L		02/26/21 14:46	
Total Radium Calculation	Total Radium	0.464 ± 0.484 (0.997)	pCi/L		03/05/21 14:01	
92521564007	YGWC-49 (020921)					
EPA 9315	Radium-226	0.137 ± 0.130 (0.248) C:77% T:NA	pCi/L		03/05/21 07:38	
EPA 9320	Radium-228	-0.0900 ± 0.330 (0.796) C:78% T:76%	pCi/L		02/26/21 14:46	
Total Radium Calculation	Total Radium	0.137 ± 0.460 (1.04)	pCi/L		03/05/21 14:01	
92521564008	YGWC-24SA (020921)					
EPA 9315	Radium-226	0.100 ± 0.114 (0.235) C:90% T:NA	pCi/L		03/08/21 08:35	
EPA 9320	Radium-228	0.578 ± 0.379 (0.729) C:80% T:84%	pCi/L		03/02/21 12:34	
Total Radium Calculation	Total Radium	0.678 ± 0.493 (0.964)	pCi/L		03/08/21 12:26	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES R6/AMA RADS
Pace Project No.: 92521564

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521564009	DUP-02 (020921)					
EPA 9315	Radium-226	0.153 ± 0.130 (0.241) C:86% T:NA	pCi/L		03/08/21 08:35	
EPA 9320	Radium-228	0.310 ± 0.321 (0.666) C:82% T:89%	pCi/L		03/02/21 12:34	
Total Radium Calculation	Total Radium	0.463 ± 0.451 (0.907)	pCi/L		03/08/21 12:26	
92521564010	YGWC-36A (021021)					
EPA 9315	Radium-226	0.0504 ± 0.0936 (0.214) C:80% T:NA	pCi/L		03/08/21 08:32	
EPA 9320	Radium-228	0.416 ± 0.429 (0.893) C:73% T:85%	pCi/L		03/02/21 15:44	
Total Radium Calculation	Total Radium	0.466 ± 0.523 (1.11)	pCi/L		03/08/21 12:26	
92521564011	YGWC-38 (020921) MS					
EPA 9315	Radium-226	95.48 %REC ± NA (NA) C:NA T:NA	pCi/L		03/05/21 07:38	
EPA 9320	Radium-228	101.32 %REC ± NA (NA) C:NA T:NA	pCi/L		02/26/21 14:46	
92521564012	YGWC-38 (020921) MSD					
EPA 9315	Radium-226	100.39 %REC 5.01RPD ± NA (NA) C:NA T:NA	pCi/L		03/05/21 07:38	
EPA 9320	Radium-228	92.73 %REC 8.85 RPD ± NA (NA) C:NA T:NA	pCi/L		02/26/21 14:46	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES R6/AMA RADS

Pace Project No.: 92521564

Sample: YGWC-38 (020921) **Lab ID: 92521564001** Collected: 02/09/21 13:50 Received: 02/10/21 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.302 ± 0.160 (0.232) C:89% T:NA	pCi/L	03/05/21 07:44	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.320 ± 0.348 (0.724) C:80% T:82%	pCi/L	02/26/21 14:46	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.626 ± 0.580 (1.07)	pCi/L	03/05/21 14:01	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES R6/AMA RADS

Pace Project No.: 92521564

Sample: YGWC-41 (021021) **Lab ID: 92521564002** Collected: 02/10/21 13:25 Received: 02/10/21 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.124 ± 0.136 (0.280) C:87% T:NA	pCi/L	03/05/21 07:44	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.424 ± 0.338 (0.664) C:76% T:88%	pCi/L	02/26/21 14:46	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.548 ± 0.474 (0.944)	pCi/L	03/05/21 14:01	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES R6/AMA RADS

Pace Project No.: 92521564

Sample: YGWC-42 (021021) **Lab ID: 92521564003** Collected: 02/10/21 14:30 Received: 02/10/21 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.259 ± 0.201 (0.383) C:79% T:NA	pCi/L	03/05/21 07:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.353 ± 0.350 (0.718) C:75% T:85%	pCi/L	02/26/21 14:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.612 ± 0.551 (1.10)	pCi/L	03/05/21 14:01	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES R6/AMA RADS

Pace Project No.: 92521564

Sample: YGWC-43 (020921) **Lab ID: 92521564004** Collected: 02/09/21 15:30 Received: 02/10/21 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	4.91 ± 0.852 (0.170) C:88% T:NA	pCi/L	03/18/21 10:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.47 ± 0.584 (0.904) C:73% T:74%	pCi/L	02/26/21 14:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	6.38 ± 1.44 (1.07)	pCi/L	03/18/21 14:07	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES R6/AMA RADS

Pace Project No.: 92521564

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: EB-01(021021)						
Lab ID: 92521564005						
Collected: 02/10/21 13:30 Received: 02/10/21 17:10 Matrix: Water						
PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0250 ± 0.103 (0.259) C:88% T:NA	pCi/L	03/05/21 07:45	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.699 ± 0.416 (0.774) C:77% T:86%	pCi/L	02/26/21 14:46	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.724 ± 0.519 (1.03)	pCi/L	03/05/21 14:01	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES R6/AMA RADS

Pace Project No.: 92521564

Sample: YGWC-23S (020921) **Lab ID: 92521564006** Collected: 02/09/21 11:10 Received: 02/10/21 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0999 ± 0.121 (0.250) C:78% T:NA	pCi/L	03/05/21 07:38	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.364 ± 0.363 (0.747) C:76% T:82%	pCi/L	02/26/21 14:46	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.464 ± 0.484 (0.997)	pCi/L	03/05/21 14:01	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES R6/AMA RADS

Pace Project No.: 92521564

Sample: YGWC-49 (020921) **Lab ID: 92521564007** Collected: 02/09/21 15:15 Received: 02/10/21 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.137 ± 0.130 (0.248) C:77% T:NA	pCi/L	03/05/21 07:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.0900 ± 0.330 (0.796) C:78% T:76%	pCi/L	02/26/21 14:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.137 ± 0.460 (1.04)	pCi/L	03/05/21 14:01	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES R6/AMA RADS

Pace Project No.: 92521564

Sample: YGWC-24SA (020921) **Lab ID: 92521564008** Collected: 02/09/21 16:10 Received: 02/10/21 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.100 ± 0.114 (0.235) C:90% T:NA	pCi/L	03/08/21 08:35	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.578 ± 0.379 (0.729) C:80% T:84%	pCi/L	03/02/21 12:34	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.678 ± 0.493 (0.964)	pCi/L	03/08/21 12:26	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES R6/AMA RADS

Pace Project No.: 92521564

Sample: DUP-02 (020921) **Lab ID: 92521564009** Collected: 02/09/21 00:00 Received: 02/10/21 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.153 ± 0.130 (0.241) C:86% T:NA	pCi/L	03/08/21 08:35	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.310 ± 0.321 (0.666) C:82% T:89%	pCi/L	03/02/21 12:34	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.463 ± 0.451 (0.907)	pCi/L	03/08/21 12:26	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES R6/AMA RADS

Pace Project No.: 92521564

Sample: YGWC-36A (021021) **Lab ID: 92521564010** Collected: 02/10/21 14:30 Received: 02/10/21 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0504 ± 0.0936 (0.214) C:80% T:NA	pCi/L	03/08/21 08:32	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.416 ± 0.429 (0.893) C:73% T:85%	pCi/L	03/02/21 15:44	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.466 ± 0.523 (1.11)	pCi/L	03/08/21 12:26	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES R6/AMA RADS

Pace Project No.: 92521564

Sample: YGWC-38 (020921) MS **Lab ID: 92521564011** Collected: 02/09/21 13:50 Received: 02/10/21 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	95.48 %REC ± NA (NA) C:NA T:NA	pCi/L	03/05/21 07:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	101.32 %REC ± NA (NA) C:NA T:NA	pCi/L	02/26/21 14:46	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES R6/AMA RADS

Pace Project No.: 92521564

Sample: YGWC-38 (020921) MSD **Lab ID: 92521564012** Collected: 02/09/21 13:50 Received: 02/10/21 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	100.39 %REC 5.01RPD ± NA (NA) C:NA T:NA	pCi/L	03/05/21 07:38	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	92.73 %REC 8.85 RPD ± NA (NA) C:NA T:NA	pCi/L	02/26/21 14:46	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES R6/AMA RADS

Pace Project No.: 92521564

QC Batch:	435783	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92521564001, 92521564002, 92521564003, 92521564004, 92521564005, 92521564006, 92521564007, 92521564011, 92521564012

METHOD BLANK: 2103740 Matrix: Water

Associated Lab Samples: 92521564001, 92521564002, 92521564003, 92521564004, 92521564005, 92521564006, 92521564007, 92521564011, 92521564012

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.267 ± 0.143 (0.193) C:92% T:NA	pCi/L	03/05/21 07:29	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES R6/AMA RADS

Pace Project No.: 92521564

QC Batch:	435786	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92521564008, 92521564009, 92521564010

METHOD BLANK: 2103744 Matrix: Water

Associated Lab Samples: 92521564008, 92521564009, 92521564010

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0425 ± 0.0687 (0.225) C:93% T:NA	pCi/L	03/08/21 08:35	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES R6/AMA RADS

Pace Project No.: 92521564

QC Batch: 435787

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92521564008, 92521564009, 92521564010

METHOD BLANK: 2103745

Matrix: Water

Associated Lab Samples: 92521564008, 92521564009, 92521564010

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.345 ± 0.339 (0.700) C:84% T:79%	pCi/L	03/02/21 12:33	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES R6/AMA RADS

Pace Project No.: 92521564

QC Batch: 435784

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92521564001, 92521564002, 92521564003, 92521564004, 92521564005, 92521564006, 92521564007, 92521564011, 92521564012

METHOD BLANK: 2103741

Matrix: Water

Associated Lab Samples: 92521564001, 92521564002, 92521564003, 92521564004, 92521564005, 92521564006, 92521564007, 92521564011, 92521564012

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.191 ± 0.338 (0.740) C:71% T:85%	pCi/L	02/26/21 11:33	

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: YATES R6/AMA RADS

Pace Project No.: 92521564

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.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES R6/AMA RADS
Pace Project No.: 92521564

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92521564001	YGWC-38 (020921)	EPA 9315	435783		
92521564002	YGWC-41 (021021)	EPA 9315	435783		
92521564003	YGWC-42 (021021)	EPA 9315	435783		
92521564004	YGWC-43 (020921)	EPA 9315	435783		
92521564005	EB-01(021021)	EPA 9315	435783		
92521564006	YGWC-23S (020921)	EPA 9315	435783		
92521564007	YGWC-49 (020921)	EPA 9315	435783		
92521564008	YGWC-24SA (020921)	EPA 9315	435786		
92521564009	DUP-02 (020921)	EPA 9315	435786		
92521564010	YGWC-36A (021021)	EPA 9315	435786		
92521564011	YGWC-38 (020921) MS	EPA 9315	435783		
92521564012	YGWC-38 (020921) MSD	EPA 9315	435783		
92521564001	YGWC-38 (020921)	EPA 9320	435784		
92521564002	YGWC-41 (021021)	EPA 9320	435784		
92521564003	YGWC-42 (021021)	EPA 9320	435784		
92521564004	YGWC-43 (020921)	EPA 9320	435784		
92521564005	EB-01(021021)	EPA 9320	435784		
92521564006	YGWC-23S (020921)	EPA 9320	435784		
92521564007	YGWC-49 (020921)	EPA 9320	435784		
92521564008	YGWC-24SA (020921)	EPA 9320	435787		
92521564009	DUP-02 (020921)	EPA 9320	435787		
92521564010	YGWC-36A (021021)	EPA 9320	435787		
92521564011	YGWC-38 (020921) MS	EPA 9320	435784		
92521564012	YGWC-38 (020921) MSD	EPA 9320	435784		
92521564001	YGWC-38 (020921)	Total Radium Calculation	437456		
92521564002	YGWC-41 (021021)	Total Radium Calculation	437456		
92521564003	YGWC-42 (021021)	Total Radium Calculation	437456		
92521564004	YGWC-43 (020921)	Total Radium Calculation	439388		
92521564005	EB-01(021021)	Total Radium Calculation	437456		
92521564006	YGWC-23S (020921)	Total Radium Calculation	437456		
92521564007	YGWC-49 (020921)	Total Radium Calculation	437456		
92521564008	YGWC-24SA (020921)	Total Radium Calculation	437634		
92521564009	DUP-02 (020921)	Total Radium Calculation	437634		
92521564010	YGWC-36A (021021)	Total Radium Calculation	437634		

REPORT OF LABORATORY ANALYSIS

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



Document Name:
Sample Condition Upon Receipt(SCUR)
 Document No.:
F-CAR-CS-033-Rev.07

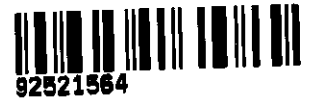
Document Revised: October 28, 2020
 Page 1 of 2
 Issuing Authority:
 Pace Carolinas Quality Office

Laboratory receiving samples:
 Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition
 Upon Receipt

Client Name: GA Power
 Project #: _____

WO#: **92521564**



Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 2/10/21

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?
 Yes No N/A

Thermometer: IR Gun ID: 230 Type of Ice: Wet Blue None

Cooler Temp: 2.1 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.1

USDA Regulated Soil (N/A, water sample)
 Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?
 Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

	Comments/Discrepancy:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A -Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A -Includes Date/Time/ID/Analysis Matrix: <u>W</u>	9.
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY Field Data Required? Yes No

Lot ID of split containers: _____

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Section B

Section C

Client Information:
 Company: Georgia Power
 Address: 1070 Briarcliff Lane
 Atlanta, GA 30114
 Phone: (770) 344-5226
 Fax: _____
 Project Name: Value RS
 Project #: _____
 Purchase Order #: _____
 Date: 2/9/2021

Request Project Information:
 Report To: Becky Stever
 Copy To: _____
 Project Name: Value RS
 Project #: _____

Invoice Information:
 Attention: _____
 Company Name: _____
 Address: _____
 Phone Order: _____
 Project Manager: kathi.herrington@ge.com
 Phone #: 10640

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analytical Test	Residual Chlorine (Y/N)
				START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other		
1	YQWNC-38	WT	G	2/10/21	10:50		4	/	/	/	/	/	/	/	/	X	92521564
2	YQWNC-39	WT	G	2/9/21	13:50		12	/	/	/	/	/	/	/	/	X	PH: 5.04
3	YQWNC-41	WT	G	2/10/21	13:25		4	/	/	/	/	/	/	/	/	X	PH: 4.98
4	YQWNC-42	WT	G	2/10/21	14:30		4	/	/	/	/	/	/	/	/	X	PH: 5.05
5	YQWNC-43	WT	G	2/9/21	15:30		4	/	/	/	/	/	/	/	/	X	PH: 5.80
6	YQWNC-235	WT	G	2/10/21	11:10		4	/	/	/	/	/	/	/	/	X	PH: 5.01

Additional Comments:
 KATHIE HERRINGTON
 2-10-21 1512

Sampler Name and Signature:
 KATHERINE PPHLEWICZ
 Signature: _____
 Date Signed: 2/9/2021

Received on Ice (Y/N)
Custody Sealed (Y/N)
Cooler (Y/N)
Samples Intact (Y/N)

TEMP in C
Received on Ice (Y/N)
Custody Sealed (Y/N)
Cooler (Y/N)
Samples Intact (Y/N)



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

Section A

Required Client Information:

Company: Georgia Power
Address: 1070 Bridge Lane Ave
City: Marietta, GA 30114
Phone: (770) 934-6525
Fax:
Requested Date:
Date: 7/15/15

Section B
Required Project Information:

Report To: Buddy Stearns
Copy To:
Purchase Order #:
Project Name: Yards AWA
Project #:

Section C
Invoicing Information:

Attention:
Company Name:
Address:
Phone Number:
Person Project Manager: kerin.herring@ge.com
Phone Profile #:

ITEM #

SAMPLE ID
One Character per box.
(A-Z, 0-9).
Sample IDs must be unique.

SAMPLE ID
YGLSC-4A (020921)

MATRIX CODE (see valid codes to left)
SAMPLE TYPE (G=GRAB C=COMP)

Table with columns: COLLECTED, START TIME, END TIME, DATE, TIME

SAMPLE TEMP AT COLLECTION

Table with columns: # OF CONTAINERS, Unpreserved, H2SO4, HNO3, HCl, NaOH, Na2S2O3, Methanol, Other

Preservatives

ANALYSES TEST
App IV Metals
Fluoride
RAD 8316/8320

Residual Chlorine (Y/N)
PH 5.79

Main grid table for sample tracking with columns: ITEM #, MATRIX CODE, SAMPLE TYPE, DATE, TIME, and analysis results.

BY: B Stearns / Stearns 7/15/15
Park Ave Park / Waste
Deer Creek / Waste 2/11/15 1500
21133 1500
21182 710

PRINT Name of SALES REPRESENTATIVE
SIGNATURE OF SALES REPRESENTATIVE: Buddy Stearns

DATE SHIPPED: 7/15/15

TEMP in C
Received on ice (Y/N)
Custody Sealed (Y/N)
Cooler (Y/N)
Samples intact (Y/N)



CHAIN-OF-CUSTODY / Analytical Request Document

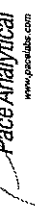
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Client Information:		Section B Requested Project Information:		Section C Invoice Information:	
Quantity:	Georgia Power	Report To:	Body Stever	Attention:	
Address:	1070 Empire Mill Ave Don, GA 30114	Copy To:		Company Name:	
City:		Phone:		Address:	
State:		Fax:		City:	
Zip:		Project Name:	Yates AMA	State:	GA
Phone:	(770) 584-6526	Project #:		County:	
Requested Due Date:		Order #:		Project Manager:	Kevin Jernigan@paceanalytical.com
		Profile #:	10840	Other:	

ITEM #	DESCRIPTION	MATRIX CODE	SAMPLE TYPE (G-GRAB C-COMP)		COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS							ANALYSES TEST	Y/N	RESIDUAL CHLORINE (Y/N)	OTHER COMMENTS		
			START DATE	END DATE	START TIME	END TIME	Unpreserved	Preservatives		Analysis Test												
1	YGMW-41																					
2	YGMW-41																					
3	YGMW-41																					
4	YGMW-41																					
5	YGMW-41																					
6	YGMW-41																					
7	YGMW-41																					
8	YGMW-41																					
9	YGMW-41																					
10	YGMW-41																					
11	YGMW-41																					
12	YGMW-41																					

ADDITIONAL COMMENTS PH = 6.31 YG-02C-245A (BOL) DUB-02 YG-02C-36A (BOL)	REQUIRED BY / INITIALS 	DATE 	TIME 	ACCEPTED BY / INITIALS Charles Hanko 5/10/11 7:10	DATE 	TIME
SIGNER NAME AND SIGNATURE PRINT NAME OF SAMPLER: Peter Nyqvist SIGNATURE OF SAMPLER:				DATE SIGNED: 02/10/2011		
TEMP In C	Received on ice? (Y/N)	Custody Sealed/ Cooler? (Y/N)	Samples Intact? (Y/N)			

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
 Analyst: MK1
 Date: 2/26/2021
 Worklist: 58912
 Matrix: DW

Method Blank Assessment	
MB Sample ID	2103740
MB concentration:	0.267
M/B Counting Uncertainty:	0.137
MB MDC:	0.193
MB Numerical Performance Indicator:	3.81
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	LCSD (Y or N)?	
	LCSD58912	LCSD58912
Count Date:	3/5/2021	
Spike I.D.:	19-033	
Decay Corrected Spike Concentration (pCi/mL):	24.040	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.508	
Target Conc. (pCi/L, g, F):	4.733	
Uncertainty (Calculated):	0.057	
Result (pCi/L, g, F):	4.870	
LCSD/CSD Counting Uncertainty (pCi/L, g, F):	0.530	
Numerical Performance Indicator:	0.50	
Percent Recovery:	102.88%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	125%	
Lower % Recovery Limits:	75%	

Duplicate Sample Assessment	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	
Sample Result Counting Uncertainty (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	See Below ##
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% RPD Limit:	

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

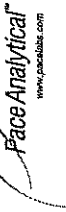
Comments:
 *The method blank result is below the reporting limit for this analysis and is acceptable.

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	2/11/2021	2/11/2021
Sample I.D.:	92521567009	92521564001
Sample MS I.D.:	92521567015	92521564011
Sample MSD I.D.:	92521567016	92521564012
Spike I.D.:	19-033	19-033
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.040	24.040
Spike Volume Used in MS (mL):	0.20	0.20
MS Aliquot (L, g, F):	0.505	0.511
MS Target Conc. (pCi/L, g, F):	9.519	9.411
MSD Aliquot (L, g, F):	0.508	0.505
MSD Target Conc. (pCi/L, g, F):	9.464	9.529
MS Spike Uncertainty (calculated):	0.114	0.113
MSD Spike Uncertainty (calculated):	0.114	0.114
Sample Result:	0.181	0.302
Sample Matrix Spike Result:	10.375	0.154
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	0.766	9.287
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	8.763	9.868
Sample Matrix Spike Duplicate Result:	0.699	0.770
Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.680	-1.128
MS Numerical Performance Indicator:	-2.392	0.091
MSD Numerical Performance Indicator:	107.09%	95.48%
MS Percent Recovery:	90.68%	100.39%
MS Status vs Numerical Indicator:	N/A	N/A
MSD Status vs Numerical Indicator:	N/A	N/A
MS Status vs Recovery:	Pass	Pass
MSD Status vs Recovery:	Pass	Pass
MS/MSD Upper % Recovery Limits:	125%	125%
MS/MSD Lower % Recovery Limits:	75%	75%

Matrix Spike/Matrix Spike Duplicate Sample Assessment	MS/MSD 1	MS/MSD 2
Sample I.D.:	92521567009	92521564001
Sample MS I.D.:	92521567015	92521564011
Sample MSD I.D.:	92521567016	92521564012
Sample Matrix Spike Result:	10.375	9.287
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	0.766	0.714
Sample Matrix Spike Duplicate Result:	8.763	9.868
Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.699	0.770
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	3.046	-1.083
Duplicate Numerical Performance Indicator:	16.60%	5.01%
Duplicate Numerical Performance Indicator (Based on the Percent Recoveries) MS/MSD Duplicate RPD:	N/A	N/A
MS/MSD Duplicate Status vs Numerical Indicator:	Pass	Pass
MS/MSD Duplicate Status vs RPD:	Pass	Pass
% RPD Limit:	25%	25%

Handwritten notes: *WMS 12/5/18* and *WMS 3/5/21*

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: LAL
Date: 2/26/2021
Worklist: 58914
Matrix: DW

Method Blank Assessment	
MB Sample ID	2103744
MB concentration:	-0.043
M/B Counting Uncertainty:	0.068
MB MDC:	0.225
MB Numerical Performance Indicator:	-1.22
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	
	LCSD58914	LCSD58914
Count Date:	3/8/2021	3/8/2021
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.039	24.039
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.504	0.509
Target Conc. (pCi/L, g, F):	4.770	4.724
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	4.906	5.140
LCSD/LCSD Counting Uncertainty (pCi/L, g, F):	0.508	0.510
Numerical Performance Indicator:	0.52	1.59
Percent Recovery:	102.86%	108.80%
Status vs Numerical Indicator:	N/A	N/A
Upper % Recovery Limits:	Pass	Pass
Lower % Recovery Limits:	125%	125%
	75%	75%

Duplicate Sample Assessment	Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D.:	Sample I.D.:
Duplicate Sample I.D.:	Sample MS I.D.:
Sample Result (pCi/L, g, F):	Sample MSD I.D.:
Sample Result Counting Uncertainty (pCi/L, g, F):	Sample Matrix Spike Result:
Sample Duplicate Result (pCi/L, g, F):	Sample Matrix Spike Duplicate Result:
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):
Are sample and/or duplicate results below RL?	Duplicate Numerical Performance Indicator:
	(Based on the Percent Recoveries) MS/MSD Duplicate RPD:
	MS/MSD Duplicate Status vs Numerical Indicator:
	MS/MSD Duplicate Status vs RPD:
	% RPD Limit:

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

Comments:

Van 3/8/21

[Handwritten signature]

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: LAL
Date: 2/26/2021
Worklist: 58914
Matrix: DW

Method Blank Assessment	
MB Sample ID	2103744
MB concentration:	-0.043
M/B Counting Uncertainty:	0.068
MB MDC:	0.225
MB Numerical Performance Indicator:	-1.22
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS (Y or N)?	
	LCS58914	LCS58914
Count Date:	3/8/2021	
Spike I.D.:	19-033	
Decay Corrected Spike Concentration (pCi/mL):	24.039	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.504	
Target Conc. (pCi/L, g, F):	4.770	
Uncertainty (Calculated):	0.067	
Result (pCi/L, g, F):	4.906	
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.508	
Numerical Performance Indicator:	0.52	
Percent Recovery:	102.86%	
Status vs Numerical Indicator:	N/A	
Upper % Recovery Limits:	125%	
Lower % Recovery Limits:	75%	

Duplicate Sample Assessment	Duplicate Sample Assessment
Sample I.D.:	92521125006
Duplicate Sample I.D.:	92521125006DUP
Sample Result (pCi/L, g, F):	0.181
Sample Result Counting Uncertainty (pCi/L, g, F):	0.137
Sample Duplicate Result (pCi/L, g, F):	0.027
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.145
Are sample and/or duplicate results below RL?	See Below #
Duplicate Numerical Performance Indicator:	1.507
Duplicate RPD:	147.89%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Fail***
% RPD Limit:	25%

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

Comments:

***Batch must be re-prepped due to unacceptable precision. N/A (AM 3/8/21)

AM 3/8/21

AM 3/8/21

Quality Control Sample Performance Assessment

Test: Ra-228
Analyst: VAL
Date: 2/24/2021
Worklist: 58913
Matrix: WT

MS/MSD 1
2/11/2021
92521567009
92521567015
92521567016

MS/MSD 2
2/9/2021
92521564001
92521564011
92521564012

MS/MSD 3
2/1-003
38.867
0.20
0.20
0.808
9.616
0.808
9.623
0.471
0.472
0.472
0.891
0.320
0.348
10.063
2.018
9.243
1.842
0.118
-0.709
101.32%
92.73%
Pass
Pass
Pass
Pass
Pass
135%
60%

MS/MSD Decay Corrected Spike Concentration (pCi/mL):
Spike Volume Used in MS (mL):
MS Aliquot (L, g, F):
MS Target Conc. (pCi/L, g, F):
MSD Aliquot (L, g, F):
MSD Target Conc. (pCi/L, g, F):
MS Spike Uncertainty (calculated):
MSD Spike Uncertainty (calculated):

Sample Collection Date:
Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:

MS/MSD Matrix Spike Control Assessment

Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:

Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Result:
Duplicate Numerical Performance Indicator:
MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:
% RPD Limit:

MS/MSD Matrix Spike Duplicate Sample Assessment

Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:

Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Result:
Duplicate Numerical Performance Indicator:
MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:
% RPD Limit:

MS/MSD Matrix Spike Duplicate Sample Assessment

Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:

Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Result:
Duplicate Numerical Performance Indicator:
MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:
% RPD Limit:

MS/MSD Matrix Spike Duplicate Sample Assessment

Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:

Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Result:
Duplicate Numerical Performance Indicator:
MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:
% RPD Limit:

MS/MSD Matrix Spike Duplicate Sample Assessment

Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:

Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Result:
Duplicate Numerical Performance Indicator:
MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:
% RPD Limit:

MS/MSD Matrix Spike Duplicate Sample Assessment

Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:

Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Result:
Duplicate Numerical Performance Indicator:
MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:
% RPD Limit:

MS/MSD Matrix Spike Duplicate Sample Assessment

Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:

Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Result:
Duplicate Numerical Performance Indicator:
MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:
% RPD Limit:

MS/MSD Matrix Spike Duplicate Sample Assessment

Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:

Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Result:
Duplicate Numerical Performance Indicator:
MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:
% RPD Limit:

MS/MSD Matrix Spike Duplicate Sample Assessment

Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:

Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Result:
Duplicate Numerical Performance Indicator:
MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:
% RPD Limit:

MS/MSD Matrix Spike Duplicate Sample Assessment

Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:

Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Result:
Duplicate Numerical Performance Indicator:
MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:
% RPD Limit:

MS/MSD Matrix Spike Duplicate Sample Assessment

Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:

Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Result:
Duplicate Numerical Performance Indicator:
MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:
% RPD Limit:

MS/MSD Matrix Spike Duplicate Sample Assessment

Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:

Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Result:
Duplicate Numerical Performance Indicator:
MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:
% RPD Limit:

MS/MSD Matrix Spike Duplicate Sample Assessment

Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:

Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Result:
Duplicate Numerical Performance Indicator:
MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:
% RPD Limit:



Count Date:
Spike I.D.:
Decay Corrected Spike Concentration (pCi/mL):
Volume Used (mL):
Aliquot Volume (L, g, F):
Target Conc. (pCi/L, g, F):
Uncertainty (Calculated):
Result (pCi/L, g, F):
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):
Numerical Performance Indicator:
Percent Recovery:
Status vs Numerical Indicator:
Status vs Recovery:
Upper % Recovery Limits:
Lower % Recovery Limits:

LCSD (Y or N)?
LCS58913
2/26/2021

N
LCS58913

21-003
38.674
0.10
0.817
4.733
0.232
3.843
0.893
-1.89
81.20%
N/A
Pass
135%
60%

MB Sample ID
MB concentration:
MB 2 Sigma CSU:
MB MDC:
MB Numerical Performance Indicator:
MB Status vs Numerical Indicator:
MB Status vs. MDC:

2103741
0.191
0.338
0.740
1.11
Pass
Pass

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

See Below ##

Duplicate Sample Assessment

Sample I.D.:
Duplicate Sample I.D.:
Sample Result (pCi/L, g, F):
Sample Result 2 Sigma CSU (pCi/L, g, F):
Sample Duplicate Result (pCi/L, g, F):
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):
Are sample and/or duplicate results below RL?
Duplicate Numerical Performance Indicator:
Duplicate RPD:
Duplicate Status vs Numerical Indicator:
Duplicate Status vs RPD:
% RPD Limit:

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

See Below ##

Duplicate Sample Assessment

Sample I.D.:
Duplicate Sample I.D.:
Sample Result (pCi/L, g, F):
Sample Result 2 Sigma CSU (pCi/L, g, F):
Sample Duplicate Result (pCi/L, g, F):
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):
Are sample and/or duplicate results below RL?
Duplicate Numerical Performance Indicator:
Duplicate RPD:
Duplicate Status vs Numerical Indicator:
Duplicate Status vs RPD:
% RPD Limit:

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

See Below ##

Duplicate Sample Assessment

Sample I.D.:
Duplicate Sample I.D.:
Sample Result (pCi/L, g, F):
Sample Result 2 Sigma CSU (pCi/L, g, F):
Sample Duplicate Result (pCi/L, g, F):
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):
Are sample and/or duplicate results below RL?
Duplicate Numerical Performance Indicator:
Duplicate RPD:
Duplicate Status vs Numerical Indicator:
Duplicate Status vs RPD:
% RPD Limit:

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

See Below ##

Duplicate Sample Assessment

Sample I.D.:
Duplicate Sample I.D.:
Sample Result (pCi/L, g, F):
Sample Result 2 Sigma CSU (pCi/L, g, F):
Sample Duplicate Result (pCi/L, g, F):
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):
Are sample and/or duplicate results below RL?
Duplicate Numerical Performance Indicator:
Duplicate RPD:
Duplicate Status vs Numerical Indicator:
Duplicate Status vs RPD:
% RPD Limit:

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

See Below ##

Duplicate Sample Assessment

Sample I.D.:
Duplicate Sample I.D.:
Sample Result (pCi/L, g, F):
Sample Result 2 Sigma CSU (pCi/L, g, F):
Sample Duplicate Result (pCi/L, g, F):
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):
Are sample and/or duplicate results below RL?
Duplicate Numerical Performance Indicator:
Duplicate RPD:
Duplicate Status vs Numerical Indicator:
Duplicate Status vs RPD:
% RPD Limit:

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

See Below ##

Duplicate Sample Assessment

Sample I.D.:
Duplicate Sample I.D.:
Sample Result (pCi/L, g, F):
Sample Result 2 Sigma CSU (pCi/L, g, F):
Sample Duplicate Result (pCi/L, g, F):
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):
Are sample and/or duplicate results below RL?
Duplicate Numerical Performance Indicator:
Duplicate RPD:
Duplicate Status vs Numerical Indicator:
Duplicate Status vs RPD:
% RPD Limit:

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

See Below ##

Duplicate Sample Assessment

Sample I.D.:
Duplicate Sample I.D.:
Sample Result (pCi/L, g, F):
Sample Result 2 Sigma CSU (pCi/L, g, F):
Sample Duplicate Result (pCi/L, g, F):
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):
Are sample and/or duplicate results below RL?
Duplicate Numerical Performance Indicator:
Duplicate RPD:
Duplicate Status vs Numerical Indicator:
Duplicate Status vs RPD:
% RPD Limit:

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

See Below ##

Duplicate Sample Assessment

Sample I.D.:
Duplicate Sample I.D.:
Sample Result (pCi/L, g, F):
Sample Result 2 Sigma CSU (pCi/L, g, F):
Sample Duplicate Result (pCi/L, g, F):
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):
Are sample and/or duplicate results below RL?
Duplicate Numerical Performance Indicator:
Duplicate RPD:
Duplicate Status vs Numerical Indicator:
Duplicate Status vs RPD:
% RPD Limit:

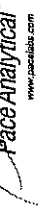
Analyst Must Manually Enter All Fields Highlighted in Yellow.

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

Comments:

Handwritten signature

Quality Control Sample Performance Assessment



Analyst **Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-228
Analyst: VAL
Date: 2/24/2021
Worklist: 58915
Matrix: WT

Method Blank Assessment	
MB Sample ID	2103745
MB concentration:	0.345
MB 2 Sigma CSU:	0.339
MB MDC:	0.700
MB Numerical Performance Indicator:	1.99
MB Status vs Numerical Indicator:	Pass
MB Status vs MDC:	Pass

Laboratory Control Sample Assessment	LCS/D (Y or N)?	
	Y	N
Count Date:	3/2/2021	LCS/D58915
Spike I.D.:	21-003	3/2/2021
Decay Corrected Spike Concentration (pCi/mL):	38.623	21-003
Volume Used (mL):	0.10	38.623
Aliquot Volume (L, g, F):	0.819	0.10
Target Conc. (pCi/L, g, F):	4.781	0.819
Uncertainty (Calculated):	0.234	4.718
Result (pCi/L, g, F):	4.284	0.231
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.952	3.747
Numerical Performance Indicator:	-0.99	0.834
Percent Recovery:	89.60%	3.747
Status vs Numerical Indicator:	N/A	-2.20
Upper % Recovery Limits:	135%	79.42%
Lower % Recovery Limits:	60%	N/A

Duplicate Sample Assessment	Y	N
Sample I.D.:	LCS58915	3/2/2021
Duplicate Sample I.D.:	4.284	21-003
Sample Result (pCi/L, g, F):	0.952	38.623
Sample Result 2 Sigma CSU (pCi/L, g, F):	3.747	0.10
Sample Duplicate Result (pCi/L, g, F):	0.834	0.819
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	NO	4.781
Ave sample and/or duplicate results below RL?	0.832	0.231
Duplicate Numerical Performance Indicator:	12.05%	3.747
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	Pass	0.834
Duplicate Status vs Numerical Indicator:	Pass	NO
Duplicate Status vs RPD:	Pass	0.832
% RPD Limit:	38%	12.05%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.:		
Sample MS I.D.:		
Sample MSD I.D.:		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc. (pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:
Sample Matrix Spike Result:
Sample Matrix Spike Duplicate Result:
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):
Matrix Spike Duplicate Result Numerical Performance Indicator:
Duplicate Numerical Performance Indicator:
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:
MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:
% RPD Limit:

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

Comments:

3/3/21

ONE 3/3/21

March 11, 2021

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

RE: Project: YATES AMA RADS
Pace Project No.: 92521568

Dear Ms. Petty:

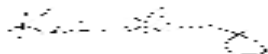
Enclosed are the analytical results for sample(s) received by the laboratory between February 10, 2021 and February 12, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where 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,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Samantha Thomas
Maribel Vital



REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: YATES AMA RADS
Pace Project No.: 92521568

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 #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: YATES AMA RADS

Pace Project No.: 92521568

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92521568001	YGWA-5D (020821)	Water	02/08/21 16:45	02/10/21 17:10
92521568002	DUP-01(020821)	Water	02/08/21 00:00	02/10/21 17:10
92521568003	YGWA-5I (020821)	Water	02/08/21 16:20	02/10/21 17:10
92521568004	YGWA-39 (021021)	Water	02/10/21 09:30	02/10/21 17:10
92521568005	YGWA-40 (021021)	Water	02/10/21 10:50	02/10/21 17:10
92521568006	FB-01(021021)	Water	02/10/21 11:05	02/10/21 17:10
92521568007	YGWA-20S (020921)	Water	02/09/21 16:50	02/10/21 17:10
92521568008	YGWA-4I(020921)	Water	02/09/21 09:50	02/10/21 17:10
92521568009	YGWA-17S(020921)	Water	02/09/21 11:15	02/10/21 17:10
92521568010	YGWA-18S(020921)	Water	02/09/21 13:25	02/10/21 17:10
92521568011	YGWA-18I(020921)	Water	02/09/21 14:00	02/10/21 17:10
92521568012	YGWA-21I(020921)	Water	02/09/21 16:10	02/10/21 17:10
92521568013	YGWA-3I(021021)	Water	02/10/21 16:40	02/11/21 13:03
92521568014	YGWA-3D(021021)	Water	02/10/21 17:25	02/11/21 13:03
92521568015	YGWA-30I(021121)	Water	02/11/21 09:50	02/11/21 13:03
92521568016	FB-01(021121)	Water	02/11/21 10:00	02/11/21 13:03
92521568017	EB-01(021121)	Water	02/11/21 12:05	02/11/21 13:03
92521568018	YGWA-40 (021021) MS	Water	02/10/21 10:50	02/10/21 17:10
92521568019	YGWA-40 (021021) MSD	Water	02/10/21 10:50	02/10/21 17:10
92521567001	EB-02 (021021)	Water	02/10/21 11:30	02/10/21 17:10
92521567003	DUP-1 (021021)	Water	02/10/21 00:00	02/10/21 17:10
92521567002	YGWA-14S (021021)	Water	02/10/21 08:50	02/10/21 17:10
92521567010	YGWA-1I (021221)	Water	02/12/21 13:20	02/12/21 17:10
92521567011	YGWA-1D (021221)	Water	02/12/21 11:55	02/12/21 17:10
92521567017	YGWA-1D (021221) MS	Water	02/12/21 11:55	02/12/21 17:10
92521567018	YGWA-1D (021221) MSD	Water	02/12/21 11:55	02/12/21 17:10
92521572002	YGWA-2I(021021)	Water	02/10/21 12:40	02/10/21 17:10

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: YATES AMA RADS
Pace Project No.: 92521568

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92521568001	YGWA-5D (020821)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568002	DUP-01(020821)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568003	YGWA-5I (020821)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568004	YGWA-39 (021021)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568005	YGWA-40 (021021)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568006	FB-01(021021)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568007	YGWA-20S (020921)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568008	YGWA-4I(020921)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568009	YGWA-17S(020921)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568010	YGWA-18S(020921)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568011	YGWA-18I(020921)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568012	YGWA-21I(020921)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568013	YGWA-3I(021021)	EPA 9315	LAL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: YATES AMA RADS
Pace Project No.: 92521568

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92521568014	YGWA-3D(021021)	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92521568015	YGWA-30I(021121)	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568016	FB-01(021121)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92521568017	EB-01(021121)	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92521568018	YGWA-40 (021021) MS	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568019	YGWA-40 (021021) MSD	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92521567001	EB-02 (021021)	EPA 9320	VAL	1	PASI-PA
		EPA 9315	MK1	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521567003	DUP-1 (021021)	EPA 9315	MK1	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	MK1	1	PASI-PA
92521567002	YGWA-14S (021021)	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	MK1	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92521567010	YGWA-1I (021221)	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92521567011	YGWA-1D (021221)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92521567017	YGWA-1D (021221) MS	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92521567018	YGWA-1D (021221) MSD	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: YATES AMA RADS
Pace Project No.: 92521568

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92521572002	YGWA-2I(021021)	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES AMA RADS
Pace Project No.: 92521568

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521568001	YGWA-5D (020821)					
EPA 9315	Radium-226	2.30 ± 0.514 (0.306) C:89% T:NA	pCi/L		03/05/21 07:15	
EPA 9320	Radium-228	0.591 ± 0.501 (1.00) C:79% T:67%	pCi/L		03/01/21 16:19	
Total Radium Calculation	Total Radium	2.89 ± 1.02 (1.31)	pCi/L		03/05/21 14:00	
92521568002	DUP-01(020821)					
EPA 9315	Radium-226	0.171 ± 0.133 (0.235) C:92% T:NA	pCi/L		03/05/21 07:15	
EPA 9320	Radium-228	0.0142 ± 0.351 (0.815) C:80% T:79%	pCi/L		03/01/21 16:19	
Total Radium Calculation	Total Radium	0.185 ± 0.484 (1.05)	pCi/L		03/05/21 14:00	
92521568003	YGWA-5I (020821)					
EPA 9315	Radium-226	0.476 ± 0.249 (0.427) C:90% T:NA	pCi/L		03/05/21 07:15	
EPA 9320	Radium-228	0.137 ± 0.351 (0.783) C:82% T:79%	pCi/L		03/01/21 16:19	
Total Radium Calculation	Total Radium	0.613 ± 0.600 (1.21)	pCi/L		03/05/21 14:00	
92521568004	YGWA-39 (021021)					
EPA 9315	Radium-226	0.363 ± 0.187 (0.306) C:96% T:NA	pCi/L		03/05/21 07:15	
EPA 9320	Radium-228	0.155 ± 0.298 (0.655) C:87% T:90%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	0.518 ± 0.485 (0.961)	pCi/L		03/05/21 14:00	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES AMA RADS
Pace Project No.: 92521568

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521568005	YGWA-40 (021021)					
EPA 9315	Radium-226	0.346 ± 0.178 (0.255) C:93% T:NA	pCi/L		03/05/21 07:15	
EPA 9320	Radium-228	0.437 ± 0.487 (1.02) C:90% T:61%	pCi/L		03/01/21 16:19	
Total Radium Calculation	Total Radium	0.783 ± 0.665 (1.28)	pCi/L		03/05/21 14:00	
92521568006	FB-01(021021)					
EPA 9315	Radium-226	0.0756 ± 0.104 (0.217) C:87% T:NA	pCi/L		03/05/21 07:15	
EPA 9320	Radium-228	0.0378 ± 0.302 (0.696) C:86% T:83%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	0.113 ± 0.406 (0.913)	pCi/L		03/05/21 14:00	
92521568007	YGWA-20S (020921)					
EPA 9315	Radium-226	0.0222 ± 0.0899 (0.230) C:94% T:NA	pCi/L		03/05/21 07:27	
EPA 9320	Radium-228	0.262 ± 0.354 (0.756) C:84% T:79%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	0.284 ± 0.444 (0.986)	pCi/L		03/05/21 14:00	
92521568008	YGWA-4I(020921)					
EPA 9315	Radium-226	0.492 ± 0.201 (0.224) C:89% T:NA	pCi/L		03/05/21 07:27	
EPA 9320	Radium-228	0.134 ± 0.379 (0.848) C:84% T:78%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	0.626 ± 0.580 (1.07)	pCi/L		03/05/21 14:00	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES AMA RADS
Pace Project No.: 92521568

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521568009	YGWA-17S(020921)					
EPA 9315	Radium-226	0.0845 ± 0.101 (0.203) C:86% T:NA	pCi/L		03/05/21 07:27	
EPA 9320	Radium-228	0.444 ± 0.512 (1.08) C:89% T:63%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	0.529 ± 0.613 (1.28)	pCi/L		03/05/21 14:00	
92521568010	YGWA-18S(020921)					
EPA 9315	Radium-226	0.0536 ± 0.0925 (0.208) C:92% T:NA	pCi/L		03/05/21 07:27	
EPA 9320	Radium-228	0.205 ± 0.313 (0.676) C:82% T:78%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	0.259 ± 0.406 (0.884)	pCi/L		03/05/21 14:00	
92521568011	YGWA-18I(020921)					
EPA 9315	Radium-226	0.147 ± 0.123 (0.217) C:89% T:NA	pCi/L		03/05/21 07:48	
EPA 9320	Radium-228	0.167 ± 0.338 (0.745) C:86% T:79%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	0.314 ± 0.461 (0.962)	pCi/L		03/05/21 14:00	
92521568012	YGWA-21I(020921)					
EPA 9315	Radium-226	0.925 ± 0.287 (0.231) C:91% T:NA	pCi/L		03/05/21 07:27	
EPA 9320	Radium-228	0.315 ± 0.363 (0.763) C:88% T:79%	pCi/L		03/01/21 16:21	
Total Radium Calculation	Total Radium	1.24 ± 0.650 (0.994)	pCi/L		03/05/21 14:00	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES AMA RADS
Pace Project No.: 92521568

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521568013	YGWA-3I(021021)					
EPA 9315	Radium-226	1.10 ± 0.317 (0.250) C:91% T:NA	pCi/L		03/05/21 07:27	
EPA 9320	Radium-228	1.36 ± 0.549 (0.874) C:90% T:68%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	2.46 ± 0.866 (1.12)	pCi/L		03/05/21 14:00	
92521568014	YGWA-3D(021021)					
EPA 9315	Radium-226	1.59 ± 0.397 (0.248) C:91% T:NA	pCi/L		03/05/21 07:27	
EPA 9320	Radium-228	2.06 ± 0.635 (0.822) C:84% T:79%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	3.65 ± 1.03 (1.07)	pCi/L		03/05/21 14:00	
92521568015	YGWA-30I(021121)					
EPA 9315	Radium-226	0.0594 ± 0.0766 (0.153) C:94% T:NA	pCi/L		03/05/21 07:27	
EPA 9320	Radium-228	0.619 ± 0.427 (0.833) C:86% T:79%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	0.678 ± 0.504 (0.986)	pCi/L		03/05/21 14:00	
92521568016	FB-01(021121)					
EPA 9315	Radium-226	0.0929 ± 0.0996 (0.196) C:96% T:NA	pCi/L		03/05/21 07:28	
EPA 9320	Radium-228	0.419 ± 0.398 (0.821) C:88% T:80%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	0.512 ± 0.498 (1.02)	pCi/L		03/05/21 14:00	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES AMA RADS
Pace Project No.: 92521568

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521568017	EB-01(021121)					
EPA 9315	Radium-226	0.0319 ± 0.0775 (0.187) C:87% T:NA	pCi/L		03/05/21 07:28	
EPA 9320	Radium-228	0.648 ± 0.478 (0.941) C:86% T:67%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	0.680 ± 0.556 (1.13)	pCi/L		03/05/21 14:00	
92521568018	YGWA-40 (021021) MS					
EPA 9315	Radium-226	102.72 %REC ± NA (NA) C:NA T:NA	pCi/L		03/05/21 07:28	
EPA 9320	Radium-228	82.38 %REC ± NA (NA) C:NA T:NA	pCi/L		03/01/21 16:20	
92521568019	YGWA-40 (021021) MSD					
EPA 9315	Radium-226	93.67%RE C 9.21RPD ± NA (NA) C:NA T:NA	pCi/L		03/05/21 07:28	
EPA 9320	Radium-228	62.49 %REC 27.45 RPD ± NA (NA) C:NA T:NA	pCi/L		03/01/21 16:20	
92521567001	EB-02 (021021)					
EPA 9315	Radium-226	0.0550 ± 0.0861 (0.188) C:84% T:NA	pCi/L		03/05/21 07:30	
EPA 9320	Radium-228	-0.0344 ± 0.302 (0.716) C:69% T:90%	pCi/L		02/26/21 11:30	
Total Radium Calculation	Total Radium	0.0550 ± 0.388 (0.904)	pCi/L		03/05/21 14:01	
92521567003	DUP-1 (021021)					
EPA 9315	Radium-226	0.0865 ± 0.0955 (0.184) C:82% T:NA	pCi/L		03/05/21 07:30	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES AMA RADS
Pace Project No.: 92521568

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521567003	DUP-1 (021021)					
EPA 9320	Radium-228	0.528 ± 0.390 (0.755) C:71% T:78%	pCi/L		02/26/21 11:30	
Total Radium Calculation	Total Radium	0.615 ± 0.486 (0.939)	pCi/L		03/05/21 14:01	
92521567002	YGWA-14S (021021)					
EPA 9315	Radium-226	0.173 ± 0.123 (0.203) C:90% T:NA	pCi/L		03/05/21 07:30	
EPA 9320	Radium-228	0.180 ± 0.339 (0.746) C:73% T:75%	pCi/L		02/26/21 11:30	
Total Radium Calculation	Total Radium	0.353 ± 0.462 (0.949)	pCi/L		03/05/21 14:01	
92521567010	YGWA-1I (021221)					
EPA 9315	Radium-226	0.136 ± 0.0809 (0.131) C:94% T:NA	pCi/L		03/09/21 19:03	
EPA 9320	Radium-228	0.322 ± 0.541 (1.18) C:72% T:83%	pCi/L		03/09/21 17:17	
Total Radium Calculation	Total Radium	0.458 ± 0.622 (1.31)	pCi/L		03/10/21 15:19	
92521567011	YGWA-1D (021221)					
EPA 9315	Radium-226	0.275 ± 0.0990 (0.123) C:95% T:NA	pCi/L		03/09/21 19:03	
EPA 9320	Radium-228	0.0910 ± 0.322 (0.726) C:81% T:87%	pCi/L		03/09/21 15:27	
Total Radium Calculation	Total Radium	0.366 ± 0.421 (0.849)	pCi/L		03/10/21 14:15	
92521567017	YGWA-1D (021221) MS					
EPA 9315	Radium-226	98.68 %REC ± NA (NA) C:NA T:NA	pCi/L		03/09/21 19:03	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES AMA RADS

Pace Project No.: 92521568

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521567017	YGWA-1D (021221) MS					
EPA 9320	Radium-228	106.48 %REC ± NA (NA) C:NA T:NA	pCi/L		03/09/21 15:27	
92521567018	YGWA-1D (021221) MSD					
EPA 9315	Radium-226	91.79 %REC 7.24 RPD ± NA (NA) C:NA T:NA	pCi/L		03/09/21 19:03	
EPA 9320	Radium-228	91.25 %REC 15.40 RPD ± NA (NA) C:NA T:NA	pCi/L		03/09/21 15:28	
92521572002	YGWA-2I(021021)					
EPA 9315	Radium-226	0.209 ± 0.130 (0.198) C:83% T:NA	pCi/L		03/02/21 11:26	
EPA 9320	Radium-228	0.831 ± 0.551 (1.06) C:70% T:78%	pCi/L		02/24/21 15:31	
Total Radium Calculation	Total Radium	1.04 ± 0.681 (1.26)	pCi/L		03/02/21 16:35	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-5D (020821) **Lab ID: 92521568001** Collected: 02/08/21 16:45 Received: 02/10/21 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	2.30 ± 0.514 (0.306) C:89% T:NA	pCi/L	03/05/21 07:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.591 ± 0.501 (1.00) C:79% T:67%	pCi/L	03/01/21 16:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.89 ± 1.02 (1.31)	pCi/L	03/05/21 14:00	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: DUP-01(020821) **Lab ID: 92521568002** Collected: 02/08/21 00:00 Received: 02/10/21 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.171 ± 0.133 (0.235) C:92% T:NA	pCi/L	03/05/21 07:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.0142 ± 0.351 (0.815) C:80% T:79%	pCi/L	03/01/21 16:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.185 ± 0.484 (1.05)	pCi/L	03/05/21 14:00	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-5I (020821) **Lab ID: 92521568003** Collected: 02/08/21 16:20 Received: 02/10/21 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.476 ± 0.249 (0.427) C:90% T:NA	pCi/L	03/05/21 07:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.137 ± 0.351 (0.783) C:82% T:79%	pCi/L	03/01/21 16:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.613 ± 0.600 (1.21)	pCi/L	03/05/21 14:00	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-39 (021021) **Lab ID: 92521568004** Collected: 02/10/21 09:30 Received: 02/10/21 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.363 ± 0.187 (0.306) C:96% T:NA	pCi/L	03/05/21 07:15	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.155 ± 0.298 (0.655) C:87% T:90%	pCi/L	03/01/21 16:20	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.518 ± 0.485 (0.961)	pCi/L	03/05/21 14:00	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-40 (021021) **Lab ID: 92521568005** Collected: 02/10/21 10:50 Received: 02/10/21 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.346 ± 0.178 (0.255) C:93% T:NA	pCi/L	03/05/21 07:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.437 ± 0.487 (1.02) C:90% T:61%	pCi/L	03/01/21 16:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.783 ± 0.665 (1.28)	pCi/L	03/05/21 14:00	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: FB-01(021021) **Lab ID: 92521568006** Collected: 02/10/21 11:05 Received: 02/10/21 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0756 ± 0.104 (0.217) C:87% T:NA	pCi/L	03/05/21 07:15	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.0378 ± 0.302 (0.696) C:86% T:83%	pCi/L	03/01/21 16:20	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.113 ± 0.406 (0.913)	pCi/L	03/05/21 14:00	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-20S (020921) **Lab ID: 92521568007** Collected: 02/09/21 16:50 Received: 02/10/21 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0222 ± 0.0899 (0.230) C:94% T:NA	pCi/L	03/05/21 07:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.262 ± 0.354 (0.756) C:84% T:79%	pCi/L	03/01/21 16:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.284 ± 0.444 (0.986)	pCi/L	03/05/21 14:00	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-4I(020921) **Lab ID: 92521568008** Collected: 02/09/21 09:50 Received: 02/10/21 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.492 ± 0.201 (0.224) C:89% T:NA	pCi/L	03/05/21 07:27	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.134 ± 0.379 (0.848) C:84% T:78%	pCi/L	03/01/21 16:20	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.626 ± 0.580 (1.07)	pCi/L	03/05/21 14:00	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-17S(020921) **Lab ID: 92521568009** Collected: 02/09/21 11:15 Received: 02/10/21 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0845 ± 0.101 (0.203) C:86% T:NA	pCi/L	03/05/21 07:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.444 ± 0.512 (1.08) C:89% T:63%	pCi/L	03/01/21 16:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.529 ± 0.613 (1.28)	pCi/L	03/05/21 14:00	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-18S(020921) **Lab ID: 92521568010** Collected: 02/09/21 13:25 Received: 02/10/21 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0536 ± 0.0925 (0.208) C:92% T:NA	pCi/L	03/05/21 07:27	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.205 ± 0.313 (0.676) C:82% T:78%	pCi/L	03/01/21 16:20	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.259 ± 0.406 (0.884)	pCi/L	03/05/21 14:00	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-18I(020921) **Lab ID: 92521568011** Collected: 02/09/21 14:00 Received: 02/10/21 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.147 ± 0.123 (0.217) C:89% T:NA	pCi/L	03/05/21 07:48	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.167 ± 0.338 (0.745) C:86% T:79%	pCi/L	03/01/21 16:20	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.314 ± 0.461 (0.962)	pCi/L	03/05/21 14:00	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-211(020921) **Lab ID: 92521568012** Collected: 02/09/21 16:10 Received: 02/10/21 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.925 ± 0.287 (0.231) C:91% T:NA	pCi/L	03/05/21 07:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.315 ± 0.363 (0.763) C:88% T:79%	pCi/L	03/01/21 16:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.24 ± 0.650 (0.994)	pCi/L	03/05/21 14:00	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-3I(021021) **Lab ID: 92521568013** Collected: 02/10/21 16:40 Received: 02/11/21 13:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	1.10 ± 0.317 (0.250) C:91% T:NA	pCi/L	03/05/21 07:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.36 ± 0.549 (0.874) C:90% T:68%	pCi/L	03/01/21 16:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.46 ± 0.866 (1.12)	pCi/L	03/05/21 14:00	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-3D(021021) **Lab ID: 92521568014** Collected: 02/10/21 17:25 Received: 02/11/21 13:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	1.59 ± 0.397 (0.248) C:91% T:NA	pCi/L	03/05/21 07:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	2.06 ± 0.635 (0.822) C:84% T:79%	pCi/L	03/01/21 16:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	3.65 ± 1.03 (1.07)	pCi/L	03/05/21 14:00	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-30I(021121) **Lab ID: 92521568015** Collected: 02/11/21 09:50 Received: 02/11/21 13:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0594 ± 0.0766 (0.153) C:94% T:NA	pCi/L	03/05/21 07:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.619 ± 0.427 (0.833) C:86% T:79%	pCi/L	03/01/21 16:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.678 ± 0.504 (0.986)	pCi/L	03/05/21 14:00	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: FB-01(021121) Lab ID: 92521568016 Collected: 02/11/21 10:00 Received: 02/11/21 13:03 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0929 ± 0.0996 (0.196) C:96% T:NA	pCi/L	03/05/21 07:28	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.419 ± 0.398 (0.821) C:88% T:80%	pCi/L	03/01/21 16:20	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.512 ± 0.498 (1.02)	pCi/L	03/05/21 14:00	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: EB-01(021121)						
Lab ID: 92521568017						
Collected: 02/11/21 12:05						
Received: 02/11/21 13:03						
Matrix: Water						
PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0319 ± 0.0775 (0.187) C:87% T:NA	pCi/L	03/05/21 07:28	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.648 ± 0.478 (0.941) C:86% T:67%	pCi/L	03/01/21 16:20	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.680 ± 0.556 (1.13)	pCi/L	03/05/21 14:00	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-40 (021021) MS **Lab ID: 92521568018** Collected: 02/10/21 10:50 Received: 02/10/21 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	102.72 %REC ± NA (NA) C:NA T:NA	pCi/L	03/05/21 07:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	82.38 %REC ± NA (NA) C:NA T:NA	pCi/L	03/01/21 16:20	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-40 (021021) MSD **Lab ID: 92521568019** Collected: 02/10/21 10:50 Received: 02/10/21 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	93.67%REC 9.21RPD ± NA (NA) C:NA T:NA	pCi/L	03/05/21 07:28	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	62.49 %REC 27.45 RPD ± NA (NA) C:NA T:NA	pCi/L	03/01/21 16:20	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: EB-02 (021021) Lab ID: 92521567001 Collected: 02/10/21 11:30 Received: 02/10/21 17:10 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0550 ± 0.0861 (0.188) C:84% T:NA	pCi/L	03/05/21 07:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.0344 ± 0.302 (0.716) C:69% T:90%	pCi/L	02/26/21 11:30	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.0550 ± 0.388 (0.904)	pCi/L	03/05/21 14:01	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: DUP-1 (021021) **Lab ID: 92521567003** Collected: 02/10/21 00:00 Received: 02/10/21 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0865 ± 0.0955 (0.184) C:82% T:NA	pCi/L	03/05/21 07:30	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.528 ± 0.390 (0.755) C:71% T:78%	pCi/L	02/26/21 11:30	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.615 ± 0.486 (0.939)	pCi/L	03/05/21 14:01	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-14S (021021) **Lab ID: 92521567002** Collected: 02/10/21 08:50 Received: 02/10/21 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.173 ± 0.123 (0.203) C:90% T:NA	pCi/L	03/05/21 07:30	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.180 ± 0.339 (0.746) C:73% T:75%	pCi/L	02/26/21 11:30	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.353 ± 0.462 (0.949)	pCi/L	03/05/21 14:01	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-1I (021221) **Lab ID: 92521567010** Collected: 02/12/21 13:20 Received: 02/12/21 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.136 ± 0.0809 (0.131) C:94% T:NA	pCi/L	03/09/21 19:03	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.322 ± 0.541 (1.18) C:72% T:83%	pCi/L	03/09/21 17:17	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.458 ± 0.622 (1.31)	pCi/L	03/10/21 15:19	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-1D (021221) **Lab ID: 92521567011** Collected: 02/12/21 11:55 Received: 02/12/21 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.275 ± 0.0990 (0.123) C:95% T:NA	pCi/L	03/09/21 19:03	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.0910 ± 0.322 (0.726) C:81% T:87%	pCi/L	03/09/21 15:27	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.366 ± 0.421 (0.849)	pCi/L	03/10/21 14:15	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-1D (021221) MS **Lab ID: 92521567017** Collected: 02/12/21 11:55 Received: 02/12/21 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	98.68 %REC ± NA (NA) C:NA T:NA	pCi/L	03/09/21 19:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	106.48 %REC ± NA (NA) C:NA T:NA	pCi/L	03/09/21 15:27	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-1D (021221) MSD **Lab ID: 92521567018** Collected: 02/12/21 11:55 Received: 02/12/21 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	91.79 %REC 7.24 RPD ± NA (NA) C:NA T:NA	pCi/L	03/09/21 19:03	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	91.25 %REC 15.40 RPD ± NA (NA) C:NA T:NA	pCi/L	03/09/21 15:28	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

Sample: YGWA-2I(021021) **Lab ID: 92521572002** Collected: 02/10/21 12:40 Received: 02/10/21 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.209 ± 0.130 (0.198) C:83% T:NA	pCi/L	03/02/21 11:26	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.831 ± 0.551 (1.06) C:70% T:78%	pCi/L	02/24/21 15:31	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.04 ± 0.681 (1.26)	pCi/L	03/02/21 16:35	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

QC Batch: 436983

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92521567010, 92521567011, 92521567017, 92521567018

METHOD BLANK: 2109306

Matrix: Water

Associated Lab Samples: 92521567010, 92521567011, 92521567017, 92521567018

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0161 ± 0.0615 (0.127) C:96% T:NA	pCi/L	03/09/21 19:03	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

QC Batch: 435783

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92521567001, 92521567002, 92521567003

METHOD BLANK: 2103740

Matrix: Water

Associated Lab Samples: 92521567001, 92521567002, 92521567003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.267 ± 0.143 (0.193) C:92% T:NA	pCi/L	03/05/21 07:29	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

QC Batch: 435459

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92521572002

METHOD BLANK: 2102227

Matrix: Water

Associated Lab Samples: 92521572002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.276 ± 0.140 (0.180) C:89% T:NA	pCi/L	03/02/21 07:53	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

QC Batch: 435781

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92521568001, 92521568002, 92521568003, 92521568004, 92521568005, 92521568006, 92521568007, 92521568008, 92521568009, 92521568010, 92521568011, 92521568012, 92521568013, 92521568014, 92521568015, 92521568016, 92521568017, 92521568018, 92521568019

METHOD BLANK: 2103737

Matrix: Water

Associated Lab Samples: 92521568001, 92521568002, 92521568003, 92521568004, 92521568005, 92521568006, 92521568007, 92521568008, 92521568009, 92521568010, 92521568011, 92521568012, 92521568013, 92521568014, 92521568015, 92521568016, 92521568017, 92521568018, 92521568019

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0349 ± 0.0874 (0.210) C:95% T:NA	pCi/L	03/05/21 07:14	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

QC Batch: 435116

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92521572002

METHOD BLANK: 2100680

Matrix: Water

Associated Lab Samples: 92521572002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.356 ± 0.369 (0.763) C:72% T:87%	pCi/L	02/24/21 15:29	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

QC Batch: 435780

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92521568001, 92521568002, 92521568003, 92521568004, 92521568005, 92521568006, 92521568007, 92521568008, 92521568009, 92521568010, 92521568011, 92521568012, 92521568013, 92521568014, 92521568015, 92521568016, 92521568017, 92521568018, 92521568019

METHOD BLANK: 2103736

Matrix: Water

Associated Lab Samples: 92521568001, 92521568002, 92521568003, 92521568004, 92521568005, 92521568006, 92521568007, 92521568008, 92521568009, 92521568010, 92521568011, 92521568012, 92521568013, 92521568014, 92521568015, 92521568016, 92521568017, 92521568018, 92521568019

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.175 ± 0.283 (0.615) C:84% T:89%	pCi/L	03/01/21 16:20	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

QC Batch: 436984

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92521567010, 92521567011, 92521567017, 92521567018

METHOD BLANK: 2109307

Matrix: Water

Associated Lab Samples: 92521567010, 92521567011, 92521567017, 92521567018

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0130 ± 0.299 (0.696) C:76% T:89%	pCi/L	03/09/21 15:28	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AMA RADS

Pace Project No.: 92521568

QC Batch: 435784

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92521567001, 92521567002, 92521567003

METHOD BLANK: 2103741

Matrix: Water

Associated Lab Samples: 92521567001, 92521567002, 92521567003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.191 ± 0.338 (0.740) C:71% T:85%	pCi/L	02/26/21 11:33	

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: YATES AMA RADS
Pace Project No.: 92521568

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.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES AMA RADS

Pace Project No.: 92521568

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92521567001	EB-02 (021021)	EPA 9315	435783		
92521567002	YGWA-14S (021021)	EPA 9315	435783		
92521567003	DUP-1 (021021)	EPA 9315	435783		
92521568001	YGWA-5D (020821)	EPA 9315	435781		
92521568002	DUP-01(020821)	EPA 9315	435781		
92521568003	YGWA-5I (020821)	EPA 9315	435781		
92521568004	YGWA-39 (021021)	EPA 9315	435781		
92521568005	YGWA-40 (021021)	EPA 9315	435781		
92521568006	FB-01(021021)	EPA 9315	435781		
92521568007	YGWA-20S (020921)	EPA 9315	435781		
92521568008	YGWA-4I(020921)	EPA 9315	435781		
92521568009	YGWA-17S(020921)	EPA 9315	435781		
92521568010	YGWA-18S(020921)	EPA 9315	435781		
92521568011	YGWA-18I(020921)	EPA 9315	435781		
92521568012	YGWA-21I(020921)	EPA 9315	435781		
92521572002	YGWA-2I(021021)	EPA 9315	435459		
92521568013	YGWA-3I(021021)	EPA 9315	435781		
92521568014	YGWA-3D(021021)	EPA 9315	435781		
92521568015	YGWA-30I(021121)	EPA 9315	435781		
92521568016	FB-01(021121)	EPA 9315	435781		
92521568017	EB-01(021121)	EPA 9315	435781		
92521567010	YGWA-1I (021221)	EPA 9315	436983		
92521567011	YGWA-1D (021221)	EPA 9315	436983		
92521567017	YGWA-1D (021221) MS	EPA 9315	436983		
92521567018	YGWA-1D (021221) MSD	EPA 9315	436983		
92521568018	YGWA-40 (021021) MS	EPA 9315	435781		
92521568019	YGWA-40 (021021) MSD	EPA 9315	435781		
92521567001	EB-02 (021021)	EPA 9320	435784		
92521567002	YGWA-14S (021021)	EPA 9320	435784		
92521567003	DUP-1 (021021)	EPA 9320	435784		
92521568001	YGWA-5D (020821)	EPA 9320	435780		
92521568002	DUP-01(020821)	EPA 9320	435780		
92521568003	YGWA-5I (020821)	EPA 9320	435780		
92521568004	YGWA-39 (021021)	EPA 9320	435780		
92521568005	YGWA-40 (021021)	EPA 9320	435780		
92521568006	FB-01(021021)	EPA 9320	435780		
92521568007	YGWA-20S (020921)	EPA 9320	435780		
92521568008	YGWA-4I(020921)	EPA 9320	435780		
92521568009	YGWA-17S(020921)	EPA 9320	435780		
92521568010	YGWA-18S(020921)	EPA 9320	435780		
92521568011	YGWA-18I(020921)	EPA 9320	435780		
92521568012	YGWA-21I(020921)	EPA 9320	435780		
92521572002	YGWA-2I(021021)	EPA 9320	435116		
92521568013	YGWA-3I(021021)	EPA 9320	435780		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES AMA RADS
Pace Project No.: 92521568

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92521568014	YGWA-3D(021021)	EPA 9320	435780		
92521568015	YGWA-30I(021121)	EPA 9320	435780		
92521568016	FB-01(021121)	EPA 9320	435780		
92521568017	EB-01(021121)	EPA 9320	435780		
92521567010	YGWA-1I (021221)	EPA 9320	436984		
92521567011	YGWA-1D (021221)	EPA 9320	436984		
92521567017	YGWA-1D (021221) MS	EPA 9320	436984		
92521567018	YGWA-1D (021221) MSD	EPA 9320	436984		
92521568018	YGWA-40 (021021) MS	EPA 9320	435780		
92521568019	YGWA-40 (021021) MSD	EPA 9320	435780		
92521567001	EB-02 (021021)	Total Radium Calculation	437456		
92521567002	YGWA-14S (021021)	Total Radium Calculation	437456		
92521567003	DUP-1 (021021)	Total Radium Calculation	437456		
92521568001	YGWA-5D (020821)	Total Radium Calculation	437454		
92521568002	DUP-01(020821)	Total Radium Calculation	437454		
92521568003	YGWA-5I (020821)	Total Radium Calculation	437454		
92521568004	YGWA-39 (021021)	Total Radium Calculation	437454		
92521568005	YGWA-40 (021021)	Total Radium Calculation	437454		
92521568006	FB-01(021021)	Total Radium Calculation	437454		
92521568007	YGWA-20S (020921)	Total Radium Calculation	437454		
92521568008	YGWA-4I(020921)	Total Radium Calculation	437454		
92521568009	YGWA-17S(020921)	Total Radium Calculation	437454		
92521568010	YGWA-18S(020921)	Total Radium Calculation	437454		
92521568011	YGWA-18I(020921)	Total Radium Calculation	437454		
92521568012	YGWA-21I(020921)	Total Radium Calculation	437454		
92521572002	YGWA-2I(021021)	Total Radium Calculation	436928		
92521568013	YGWA-3I(021021)	Total Radium Calculation	437454		
92521568014	YGWA-3D(021021)	Total Radium Calculation	437454		
92521568015	YGWA-30I(021121)	Total Radium Calculation	437454		
92521568016	FB-01(021121)	Total Radium Calculation	437454		
92521568017	EB-01(021121)	Total Radium Calculation	437454		
92521567010	YGWA-1I (021221)	Total Radium Calculation	438070		
92521567011	YGWA-1D (021221)	Total Radium Calculation	438070		

REPORT OF LABORATORY ANALYSIS

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



Document Name:
Sample Condition Upon Receipt (SCUR)
 Document No.:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020
 Page 1 of 2
 Issuing Authority:
 Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition
 Upon Receipt

Client Name:

GAPower

Project #:

WO# : 92521568

Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____



Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *2/10/21*

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Thermometer: IR Gun ID: 230 Type of Ice: Wet Blue None

Yes No N/A

Cooler Temp: 21 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 21

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.	
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.	
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Includes Date/Time/ID/Analysis Matrix: <i>W</i>			
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.	
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

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



Section A

Client Information:	Requested Project Information:
Company: Georgia Power	Report To: Beach Steiner
Address: 1070 Bridge Mill Ave	Copy To:
City: Hon. GA 30114	Project #:
Phone: (770)584-6326	Project Name: Yates Area
Fax:	Purch Order #:
Requested Date:	Project #:
Company Name:	Address:
Site Name:	Site Address:
Site Address:	Site City/State/Zip:
Site Profile #:	

Section B

NO	MATERIAL	CODE	MATERIAL	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analyse Test			Residual Chlorine (Y/N)							
							START DATE	START TIME	END DATE	END TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N										
13	>600-SD	WT	Drying Weigh DMG	WTG			08/25/10	1645			4									X						X					
14		WT	Water Weigh WWS	WTG																X											
15		WT	Waste Weigh WWA	WTG																X											
16		WT	Product Weigh PW	WTG																X											
17		WT	Spill Weigh SW	WTG																X											
18		WT	Other Weigh OWC	WTG																X											
19		WT	Other Weigh OWC	WTG																X											
20		WT	Other Weigh OWC	WTG																X											
21		WT	Other Weigh OWC	WTG																X											
22		WT	Other Weigh OWC	WTG																X											
23		WT	Other Weigh OWC	WTG																X											
24		WT	Other Weigh OWC	WTG																X											

Section C

Section C	Address:	City/State/Zip:
Company Name:	Site Name:	Site Address:
Site Address:	Site City/State/Zip:	Site Profile #:
Site Profile #:		

Section D

REMOVED BY/AFFILIATION	DATE	TIME	ACCEPTED BY/AFFILIATION	DATE	TIME
			Carle Hunt	2/19/10	17:10

Section E

TEMP In C	Received on Ice <input type="checkbox"/> (Y/N)	Custody Sealed <input type="checkbox"/> Cooler <input type="checkbox"/> (Y/N)	Samples Intact <input type="checkbox"/> (Y/N)

Section F

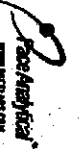
ANALYSE TEST	Y/N
App IV Metals	X
Fluoride	X
RAD 8315/9320	X

Section G

ANALYST NAME AND SIGNATURE	DATE SIGNED
Peter Hancock	02/10/2010

Section H

Signature of SAMPLER	DATE SIGNED



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
Customer Information:

Company: Georgia Power
Address: 1070 Bridge Mill Ave
City: Marietta, GA 30114
Phone: (770) 384-6325
Requested Due Date:

Section B
Requested Project Information:

Report To: Betty Stever
Copy To:
Purchase Order #: Yanes AMA
Project Name: Yanes AMA
Project #:

Section C
Invoice Information:

Attention:
Company Name:
Address:
Phone Order:
Peace Project Manager: hevin.henning@gepcos.com
Peace Profile #: 10940

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES							Residual Chlorine (Y/N)		
				START DATE	START TIME	END DATE	END TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol		Other	
1	YGNWA-39	WT	G	2/8/21	1620			4	/	/	/	/	/	/	/	/	/	/	42521565
2	YGNWA-40	WT	G	2/10/21	1058			4	/	/	/	/	/	/	/	/	/	/	PH: 5.07
3	YGNWA-41	WT	G	2/10/21	1105			4	/	/	/	/	/	/	/	/	/	/	PH: 5.19
4	YGNWA-42	WT	G	2/12/21	1650			4	/	/	/	/	/	/	/	/	/	/	PH: 5.80
5	YGNWA-43	WT	G																
6	YGNWA-44	WT	G																
7	YGNWA-45	WT	G																
8	YGNWA-46	WT	G																
9	YGNWA-47	WT	G																
10	YGNWA-48	WT	G																
11	YGNWA-49	WT	G																
12	YGNWA-50	WT	G																

Kate Pytkowicz/Arcois 21021
B12
Kade Hulls
4/10/21 1710

PRINT Name of SAMPLER: Kate Pytkowicz
SIGNATURE OF SAMPLER:

DATE Signed: 2-9-2021

TEMP in C

Received on Ice (Y/N)

Custody Sealed/ Cooler (Y/N)

Samples Intact (Y/N)



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 3 of 3

Section A

Customer Information:
Company: Georgia Power
Address: 1070 Bradford Lane
Atlanta, GA 30314

Section B

Requested Project Information:
Report To: Betsy Seever
Copy To:
Purchase Order #: Values AMA
Project Name: Values AMA
Project #:
Requested Due Date:

Section C

Invoice Information:
Attention:
Company Name:
Address:
Phone Number:
Project Manager: Kevin Leffing@aceanalytical.com
Phone/Fax #: 10040

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB G-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES									Analyte List	App IV Metals	Fluoride	RAD 9316/9320	Residual Chlorine (Y/N)	PH	Temp in C	Received on ice (Y/N)	Custody Sealed/ Cooler (Y/N)	Samples Intact (Y/N)						
				START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	As											Cd	Cr	Cu	Pb	Mn	Ni
1	YGWA-11 (020921)	WT	2/9	2000		4	N	Y																	PH 5.00						PH 6.00	
2	YGWA-17S (010921)	WT	2/9	1115		4	X	X	X																PH 5.02						PH 6.12	5.43
3	YGWA-18S (020921)	WT	2/9	1585		4	X	X	X																PH 6.95							
4	YGWA-18I (020921)	WT	2/9	1400		4	X	X	X																PH 6.95							
5	YGWA-211 (020921)	WT	2/9	1400		4	X	X	X																PH 6.95							
6	YGWA-211 (020921)	WT	2/9	1400		4	X	X	X																PH 6.95							
7	YGWA-211 (020921)	WT	2/9	1400		4	X	X	X																PH 6.95							
8	YGWA-211 (020921)	WT	2/9	1400		4	X	X	X																PH 6.95							
9	YGWA-211 (020921)	WT	2/9	1400		4	X	X	X																PH 6.95							
10	YGWA-211 (020921)	WT	2/9	1400		4	X	X	X																PH 6.95							
11	YGWA-211 (020921)	WT	2/9	1400		4	X	X	X																PH 6.95							
12	YGWA-211 (020921)	WT	2/9	1400		4	X	X	X																PH 6.95							

Signature of Sampler: [Signature] Date: 2/19/10
Signature of Custodian: [Signature] Date: 2/19/10

TEMP in C
Received on ice (Y/N)
Custody Sealed/ Cooler (Y/N)
Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.



Section A		Section B		Section C	
Client Information: Agency: Georgia Power Address: 1070 Bridge Mill Ave City: Atlanta, GA 30114 Phone: 478-994-6526 Fax: _____ Requested Date: _____		Project Information: Report To: Beach Street Copy To: _____ Purchase Order #: _____ Project Name: Yates AP-2 Project #: _____		Invoice Information: Attention: _____ Company Name: _____ Address: _____ POC Name: _____ POC Phone #: 10640 POC Email: kevin.harting@gepower.com	

ITEM #	DESCRIPTION	WT	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analytes Test	Residual Chlorine (Y/N)
			START DATE	END DATE					
1	YGVIA-301	WT							
2	YGVIA-302	WT							
3	YGVIA-303	WT							
4	YGVIA-304	WT							
5	YGVIA-305	WT							
6	YGVIA-306	WT							
7	YGVIA-307	WT							
8	YGVIA-308	WT							
9	YGVIA-309	WT							
10	YGVIA-310	WT							
11	YGVIA-311	WT							
12	YGVIA-312	WT							
13	YGVIA-313	WT							
14	YGVIA-314	WT							
15	YGVIA-315	WT							
16	YGVIA-316	WT							
17	YGVIA-317	WT							
18	YGVIA-318	WT							
19	YGVIA-319	WT							
20	YGVIA-320	WT							

	MATRIX CODE: (see valid codes to left) SAMPLE TYPE: (G=GRAB C=COMP)								
1	YGVIA-301	WT	2-17-12	12:05	4				
2	YGVIA-302	WT	2-17-12	12:05	4				
3	YGVIA-303	WT	2-17-12	12:05	4				
4	YGVIA-304	WT	2-17-12	12:05	4				
5	YGVIA-305	WT	2-17-12	12:05	4				
6	YGVIA-306	WT	2-17-12	12:05	4				
7	YGVIA-307	WT	2-17-12	12:05	4				
8	YGVIA-308	WT	2-17-12	12:05	4				
9	YGVIA-309	WT	2-17-12	12:05	4				
10	YGVIA-310	WT	2-17-12	12:05	4				
11	YGVIA-311	WT	2-17-12	12:05	4				
12	YGVIA-312	WT	2-17-12	12:05	4				
13	YGVIA-313	WT	2-17-12	12:05	4				
14	YGVIA-314	WT	2-17-12	12:05	4				
15	YGVIA-315	WT	2-17-12	12:05	4				
16	YGVIA-316	WT	2-17-12	12:05	4				
17	YGVIA-317	WT	2-17-12	12:05	4				
18	YGVIA-318	WT	2-17-12	12:05	4				
19	YGVIA-319	WT	2-17-12	12:05	4				
20	YGVIA-320	WT	2-17-12	12:05	4				

SAMPLES KEPT AND SIGNATURE: PRINT Name of SAMPLER: Kate Spencer SIGNATURE of SAMPLER: <i>Kate Spencer</i> DATE Signed: 2-11-12		RECEIVED BY: <i>Kevin Harting</i> DATE: 2-11-12 SIGNATURE: <i>Kevin Harting</i>	
TEMP in C	Received on Ice (Y/N)	Coolbox Sealed (Y/N)	Samples Intact (Y/N)

Quality Control Sample Performance Assessment



Test: Ra-226
Analyst: LAL
Date: 2/26/2021
Worklist: 58911
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2103737
MB concentration:	0.035
M/B Counting Uncertainty:	0.087
MB MDC:	0.210
MB Numerical Performance Indicator:	0.78
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	
	LCS58911	Y
Count Date:	3/5/2021	LCS58911
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.040	24.040
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.508	0.501
Target Conc. (pCi/L, g, F):	4.737	4.795
Uncertainty (Calculated):	0.057	0.058
Result (pCi/L, g, F):	4.762	4.738
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.526	0.516
Numerical Performance Indicator:	0.09	-0.21
Percent Recovery:	100.53%	98.83%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	LCS58911
Duplicate Sample I.D.:	LCS58911
Sample Result (pCi/L, g, F):	4.762
Sample Result Counting Uncertainty (pCi/L, g, F):	0.526
Sample Duplicate Result (pCi/L, g, F):	4.738
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.516
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.062
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	1.71%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

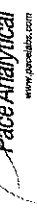
Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	2/10/2021	
Sample I.D.:	92521568005	
Sample MS I.D.:	92521568018	
Sample MSD I.D.:	92521568019	
Spike I.D.:	19-033	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.040	
Spike Volume Used in MSD (mL):	0.20	
Spike Volume Used in MS (mL):	0.507	
MS Aliquot (L, g, F):	9.481	
MS Target Conc. (pCi/L, g, F):	0.504	
MSD Target Conc. (pCi/L, g, F):	9.531	
MS Spike Uncertainty (calculated):	0.114	
MSD Spike Uncertainty (calculated):	0.114	
Sample Result:	0.346	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.170	
Sample Matrix Spike Result:	10.085	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	0.759	
Sample Matrix Spike Duplicate Result:	9.274	
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	0.719	
MS Numerical Performance Indicator:	0.643	
MSD Numerical Performance Indicator:	-1.581	
MS Percent Recovery:	102.72%	
MSD Percent Recovery:	93.67%	
MS Status vs Numerical Indicator:	N/A	
MSD Status vs Numerical Indicator:	N/A	
MS Status vs Recovery:	Pass	
MSD Status vs Recovery:	Pass	
MS/MSD Upper % Recovery Limits:	125%	
MS/MSD Lower % Recovery Limits:	75%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	92521568005
Sample MS I.D.:	92521568018
Sample MSD I.D.:	92521568019
Sample Matrix Spike Result:	10.085
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	0.759
Sample Matrix Spike Duplicate Result:	9.274
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	0.719
Duplicate Numerical Performance Indicator:	1.522
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	9.21%
MS/MSD Duplicate Status vs Numerical Indicator:	N/A
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Quality Control Sample Performance Assessment



Analyst **Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-228
Analyst: VAL
Date: 2/24/2021
Worklist: 58910
Matrix: WT

Method Blank Assessment	
MB Sample ID	2103736
MB concentration:	0.175
MB 2 Sigma CSU:	0.293
MB MDC:	0.615
MB Numerical Performance Indicator:	1.21
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCS (Y or N)?	N
Count Date:	3/1/2021	LCS58910	LCS58910
Spike I.D.:	21-003		
Decay Corrected Spike Concentration (pCi/mL):	38.633		
Volume Used (mL):	0.10		
Aliquot Volume (L, g, F):	0.813		
Target Conc. (pCi/L, g, F):	4.751		
Uncertainty (Calculated):	0.233		
Result (pCi/L, g, F):	3.106		
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.756		
Numerical Performance Indicator:	-4.07		
Percent Recovery:	65.39%		
Status vs Numerical Indicator:	N/A		
Status vs Recovery:	Pass		
Upper % Recovery Limits:	135%		
Lower % Recovery Limits:	60%		

Duplicate Sample Assessment	
Sample I.D.:	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	See Below ##
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% RPD Limit:	

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

Comments:

Handwritten notes and signatures in the comments area.

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:	Sample I.D.	2/10/2021	
Sample MS I.D.	Sample MS I.D.	92521568005	
Sample MSD I.D.	Sample MSD I.D.	92521568018	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	Spike I.D.:	21-003	
Spike Volume Used in MS (mL):	Spike Volume Used in MSD (mL):	38.879	
MS Aliquot (L, g, F):	MS Target Conc. (pCi/L, g, F):	0.20	
MS Aliquot (L, g, F):	MS Target Conc. (pCi/L, g, F):	0.805	
MSD Aliquot (L, g, F):	MSD Target Conc. (pCi/L, g, F):	9.656	
MSD Target Conc. (pCi/L, g, F):	MS Spike Uncertainty (calculated):	0.808	
MS Spike Uncertainty (calculated):	MSD Spike Uncertainty (calculated):	9.628	
MSD Spike Uncertainty (calculated):	Sample Result:	0.473	
Sample Result 2 Sigma CSU (pCi/L, g, F):	Sample Matrix Spike Result:	0.472	
Sample Matrix Spike Result:	Sample Matrix Spike Result:	0.437	
Sample Matrix Spike Duplicate Result:	Sample Matrix Spike Duplicate Result:	0.487	
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	3.391	
MS Numerical Performance Indicator:	MS Numerical Performance Indicator:	1.709	
MSD Numerical Performance Indicator:	MSD Numerical Performance Indicator:	6.453	
MS Percent Recovery:	MS Percent Recovery:	-1.814	
MSD Percent Recovery:	MSD Percent Recovery:	-4.545	
MS Status vs Numerical Indicator:	MS Status vs Numerical Indicator:	82.38%	
MSD Status vs Numerical Indicator:	MSD Status vs Numerical Indicator:	62.49%	
MS/MSD Upper % Recovery Limits:	MS/MSD Upper % Recovery Limits:	Pass	
MS/MSD Lower % Recovery Limits:	MS/MSD Lower % Recovery Limits:	Fail****	
		Pass	
		Pass	
		135%	
		60%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.	92521568005
Sample MS I.D.	92521568018
Sample MSD I.D.	92521568019
Sample Matrix Spike Result:	8.391
Sample Matrix Spike Duplicate Result:	1.709
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	6.453
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.402
Duplicate Numerical Performance Indicator:	1.718
Duplicate Numerical Performance Indicator:	27.45%
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

March 2021

Semiannual Event



Georgia Power Co. – Plant Yates

DATA REVIEW

Metals, Radium, and General Chemistry Analyses

SDGs #92525896, 92525905, 92525931 and 92525936

Analyses Performed By:

Pace Analytical Services – Asheville, North Carolina


Pace Analytical Services – Peachtree Corners, Georgia

Pace Analytical Services – Greensburg, Pennsylvania

Report #41027R

Review Level: Tier II

Project: 30052922.00004



DATA REVIEW REPORT

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Groups (SDGs) # 92525896, 92525905, 92525931 and 92525936 for samples collected in association with the Georgia Power Company – Plant Yates. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the chain of custody form and a table summarizing the data validation qualifiers. Analyses were performed on the following samples:

SDG	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
						RAD	MET	GEN CHEM
92525896 92525931	YGWC-24SA	92525896-1 92525931-1	Water	03/03/21		X	X	X
	YGWC-36A	92525896-2 92525931-2	Water	03/04/21		X	X	X
	DUP-2	92525896-3 92525931-3	Water	03/03/21	YGWC-24SA	X	X	X
	YGWC-23S	92525896-4 92525931-4	Water	03/04/21		X	X	X
	YGWC-41	92525896-5 92525931-5	Water	03/04/21		X	X	X
	YGWC-43	92525896-6 92525931-6	Water	03/04/21		X	X	X
	FB-1	92525896-7 92525931-7	Water	03/04/21		X	X	X
	EB-2	92525896-8 92525931-8	Water	03/04/21		X	X	X
	YGWC-49	92525896-9 92525931-9	Water	03/04/21		X	X	X
	FB-02	92525896-10 92525931-10	Water	03/04/21		X	X	X
	YGWC-42	92525896-11 92525931-11	Water	03/04/21		X	X	X
92525905 92525936	TGWC-38	92525896-12 92525931-12	Water	03/04/21		X	X	X
	YAMW-2	92525905-1 92525936-1	Water	03/03/21		X	X	X
	YAMW-4	92525905-2 92525936-2	Water	03/03/21		X	X	X

DATA REVIEW REPORT

SDG	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
						RAD	MET	GEN CHEM
92525905 92525936	YAMW-5	92525905-3 92525936-3	Water	03/04/21		X	X	X
	YAMW-1	92525905-4 92525936-4	Water	03/03/21		X	X	X
	PZ-35	92525905-5 92525936-5	Water	03/04/21		X	X	X
	EB1	92525905-6 92525936-6	Water	03/04/21		X	X	X
	PZ-37	92525905-7 92525936-7	Water	03/04/21		X	X	X

Notes:

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

DATA REVIEW REPORT

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

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

Note:

QA - Quality Assurance

DATA REVIEW REPORT

INORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 6010D, 6020B, 9315, and 9320; 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 National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017).

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 reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - R The sample results are rejected.

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

DATA REVIEW REPORT

METALS ANALYSES

1. Holding Times

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

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

Note:

s.u. = Standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

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

All compounds associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the compounds listed in the following table. Sample results associated with QA blank contamination that were greater than the BAL resulted in the removal of the laboratory qualifier (B) of data. Sample results less than the BAL associated with the following sample locations were qualified as listed in the following table.

Sample Locations	Analytes	Sample Result	Qualification
YGWC-36A YGWC-23S	Lead (EB)	Detected sample results <RL and <BAL	"UB" at the RL

Note:

EB = Equipment blank

RL = Reporting limit

MB = Method Blank

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.

DATA REVIEW REPORT

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 performed on samples YGWC-24SA and YAMW-2 exhibited recoveries and RPDs 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 RPD.

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
YGWC-24SA / DUP-2	Barium	0.025	0.026	3.9%
	Beryllium	0.000099 J	0.00011 J	AC

Note:

AC = Acceptable

The differences in the results between the parent sample YGWC-24SA and field duplicate sample 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 REVIEW REPORT

DATA VALIDATION CHECKLIST FOR METALS

METALS: SW-846 6010D/6020B/7470A	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	

Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES)

Inductively Coupled Plasma-Mass Spectrometry (ICP-MS)

Atomic Absorption – Manual Cold Vapor (CV)

Tier II Validation

Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X	X		
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X		X	
Reporting Limit Verification		X		X	

Notes:

%R Percent recovery

RPD Relative percent difference

DATA REVIEW REPORT

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 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.

All analytes associated with MS/MSD recoveries were within control limits with the exception of the following analyte present in the table below.

DATA REVIEW REPORT

Sample Location	Analyte	MS Recovery	MSD Recovery
YGWC-23S	Sulfate	74%	73%
YAMW-4	Sulfate	70%	65%

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

Control limit	Sample Result	Qualification
MS/MSD percent recovery 30% to 74%	Non-detect	UJ
	Detect	J
MS/MSD percent recovery <30%	Non-detect	R
	Detect	J
MS/MSD percent recovery >125%	Non-detect	No Action
	Detect	J

3.2 Laboratory Duplicate Analysis

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

The laboratory duplicate performed on sample PZ-37 for TDS exhibited an acceptable RPD.

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
YGWC-24SA / DUP-2	TDS	70	63	10.5%
	Chloride	8.6	8.6	0.0%

Notes:

AC = Acceptable

The differences in the results between the parent sample YGWC-24SA and field duplicate sample DUP-2 were acceptable.

DATA REVIEW REPORT

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 REVIEW REPORT

DATA VALIDATION CHECKLIST FOR GENERAL CHEMISTRY

General Chemistry: SM4500-H+ B, SM2540C, USEPA 300.0	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment blanks		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X	X		
Matrix Spike Duplicate (MSD) %R		X	X		
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X		X	
Dilution Factor		X		X	
Moisture Content	X				X

Notes:

%R Percent recovery

RPD Relative percent difference

DATA REVIEW REPORT

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 reporting limit (RL) of 1 pCi/L.

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 minimum detectable concentration (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:

$$\text{Normalized absolute difference}_{\text{MethodBlank}} = \frac{| \text{Sample} - \text{Blank} |}{\sqrt{(U_{\text{Sample}})^2 + (U_{\text{Blank}})^2}}$$

Where:

U_{Sample} = uncertainty of the sample

U_{Blank} = uncertainty of the blank

Sample = concentration of isotope in sample

Blank = concentration of isotope in blank

DATA REVIEW REPORT

Normalized Absolute Difference	Qualification
> 2.58	None
1.96 > x < 2.58	J
x < 1.96	J*

* = Minimally the result should be qualified as estimated, J; however, if other quality indicators are deficient the validator may determine the result should be qualified as rejected, R

Radium-228, 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 < +/- 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.

x₀ = measured concentration of the unspiked sample.

c = spike concentration added.

u²(x), u²(x₀), u²(c) = the squares of the respective standard uncertainties of these values.

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

MS analysis was not performed using a sample from these SDGs.

DATA REVIEW REPORT

3.2 Laboratory Duplicate Analysis

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

The numerical performance indicator for laboratory duplicates is calculated by:

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

Where:

x_1, x_2 = two measured activity concentrations.

$u^2(x_1), u^2(x_2)$ = the combined standard uncertainty of each measurement squared.

Duplicate sample performance is acceptable when the numerical performance indicator calculation yields a value between +/- 3 sigma. Warning limits have been established as +/- 2 sigma.

The laboratory duplicate analysis performed using sample YAMW-1 in association with SW-846 9315 analysis exhibited acceptable differences 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:

For all analyses in soil matrices, 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 analysis is used to assess the overall precision of the field sampling procedures and analytical method. For results greater than five times the MDC, a control limit of 35 percent for water matrices is applied to the RPD between the parent and field duplicate sample results. If the parent and field duplicate sample results are less than five times the MDC, for water matrices a control limit of two times the MDC is applied to the difference between the results.

The field duplicate sample results are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YGWC-24SA / DUP-2	Radium-226	0.139 +/- 0.138	4.78 +/- 0.878	AC
	Radium-228	0.276 +/- 0.454	0.329 +/- 0.440	
	Total Radium	0.415 +/- 0.592	5.11 +/- 1.32	

DATA REVIEW REPORT

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
------------------------	---------	---------------	------------------	-----

Notes:

AC = Acceptable

The differences in the results between the parent sample YGWA-24SA and field duplicate sample DUP-2 were acceptable.

5. Tracer or Carrier

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

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

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

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS/LCSD analysis must exhibit a percent recovery between the control limits of 60% to 135%. In the event the recovery is outside of this limit, a numerical indicator to make assessments is calculated, with a limit of +/- 3 sigma.

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

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

Where:

x = Analytical result of the LCS

c = Known concentration of the LCS

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

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

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

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

7. Isotope Identification

For sample results to be considered "non-detect", evaluate data based on the following two criteria. If either one of these criteria is true, the sample result is considered "non-detect".

1. Sample result is less than the uncertainty and less than the MDC/MDA; or

DATA REVIEW REPORT

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-24SA – Radium 226, Radium 228 and Total Radium
- YGWC-36A - Radium 226, Radium 228 and Total Radium
- DUP-2 – Radium 226
- YGWC-23S - Radium 226, Radium 228 and Total Radium
- YGWC-41 – Radium 226
- FB-1 - Radium 226, Radium 228 and Total Radium
- EB-2 - Radium 226, Radium 228 and Total Radium
- YGWC-49 – Radium 228 and Total Radium
- FB-02 - Radium 226, Radium 228 and Total Radium
- YGWC-42 – Radium 226
- YGWC-38 - Radium 226, Radium 228 and Total Radium
- YAMW-2 - Radium 226, Radium 228 and Total Radium
- YAMW-4 – Radium 228
- YAMW-1 - Radium 226, Radium 228 and Total Radium
- PZ-35 - Radium 226, Radium 228 and Total Radium
- EB-1 - Radium 226, Radium 228 and Total Radium
- PZ-37 – Radium 228

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 REVIEW REPORT

DATA VALIDATION CHECKLIST FOR RADIOLOGICALS

RADIOLOGICALS: SW-846 9315/9320	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Gas-Flow Proportional System					
Tier II Validation					
Holding Times		X		X	
Activity, +/- uncertainty, MDC/MDA		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X		X	
Carrier (Surrogate) %R		X		X	
Tracer (Surrogate) %R		X		X	
Laboratory Control Sample (LCS)		X		X	
Laboratory Control Sample Duplicate (LCSD)		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS) %R	X				X
Matrix Spike Duplicate (MSD) %R	X				X
MS/MSD Precision (RPD)	X				X
Field/Lab Duplicate (RPD)		X		X	

Notes:

%R Percent recovery

RPD Relative percent difference

DATA REVIEW REPORT

VALIDATION PERFORMED BY: Rachelle Borne

SIGNATURE:



DATE: May 17, 2021

PEER REVIEW: Jennifer Singer

DATE: May 18, 2021

CHAIN OF CUSTODY / DATA QUALIFIER SUMMARY TABLE





CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Required Client Information:
 Client Name: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: Atlanta, GA 30114
 Phone: (770) 364-6526
 Fax: _____

Requested Project Information:
 Report To: Becky Stever
 Project Name: Yates AWA
 Project #: _____

Section B
 Purchase Order #: _____
 Project Name: Yates AWA
 Project #: _____

Section C
 Invoice Information:
 Attention: _____
 Company Name: _____
 Address: _____
 Pace Quote: _____
 Pace Project Manager: Kevin Henning@paceabts.com
 Pace Profile #: 10840

Regulatory Agency: State Department
 State Location: GA

SAMPLE ID
 One Character per box.
 (A-Z, 0-9, /, -)

Sample IDs must be unique

MATRIX CODE (see valid codes to left)

MATRIX
 Drinking Water DWI
 Wastewater WWT
 Surface Water SWI
 Groundwater GWI
 Air AAI
 Sediment SSI
 Sludge SLI
 Other OTH

ITEM #	DESCRIPTION	WT	COLLECTED		DATE	TIME	SAMPLE TEMP AT COLLECT ON	PRESERVATIVES								Analytes Test	Residual Chlorine (Y/N)				
			START DATE	END DATE				DATE	TIME	UNPRESERVED	H2SO4	HNO3	HCl	NaOH	Na2S2O3			Methanol	Other		
13	YGWC-245A	WT																			
14	YGWC-36A	WT																			
15	YGWC-36A - DUP-2	WT																			
16		WT																			
17		WT																			
18		WT																			
19		WT																			
20		WT																			
21																					
22																					
23																					
24																					

ADDITIONAL COMMENTS: _____

RELEASED BY / AFFILIATION: _____

DATE: 03/01/2014 TIME: 1605

ACCEPTED BY / AFFILIATION: Becky Stever 3/5/14 0930

DATE: _____ TIME: _____

TEMP In C: _____

Received on Ice (Y/N): _____

Custody Sealed (Y/N): _____

Cooler (Y/N): _____

Samples Intact (Y/N): _____

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Peter Argabris

SIGNATURE of SAMPLER: _____

DATE Signed: 03/01/2014

Page: 1 of 5
Doc 2



www.paceanalytical.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Client Information:

Company: Georgia Power
 Address: 1070 Bridge Mill Ave
 Location: GA 30114

Section B

Required Project Information:

Report To: Becky Stever
 Copy To:
 Purchase Order #: Yates AMA
 Project Name: Yates AMA

Section C

Invoice Information:

Attention:
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: Kevin Herring@pacelabs.com
 Pace Profile #: 10840

Page: 2 of 9

Regulatory Agency: DEC

State / Location: GA

SAMPLE ID
 One Character per box.
 (A-Z, 0-9 / . -)
 Sample IDs must be unique

MATRIX CODE (see viald codes to left)
 SAMPLE TYPE (G=GRAB C=COMP)

COLLECTED	START		END	
	DATE	TIME	DATE	TIME
	3/4	12:15		

PRESERVATIVES	# OF CONTAINERS
H2SO4	
HNO3	
HCl	
NaOH	
Na2S2O3	
Methanol	
Other	

ANALYSES TEST	Y/N
TDS	X
Cl, F, SO4	X
App III/IV Metals	X
RAD 8316/8320	X

Requested Analytes Filtered (Y/N)
Residual Chlorine (Y/N)

PH: 5.44

NO.	MATERIAL	WT	RECEIVED BY / AFFILIATION		DATE		ACCEPTED BY / AFFILIATION		DATE		TEMP In C	RECEIVED ON ICE (Y/N)	CUSTODY SEALED COOLER (Y/N)	SAMPLES INTACT (Y/N)
			NAME	ORGANIZATION	TIME	TIME	NAME	ORGANIZATION	TIME	TIME				
3	WATER	WT	Jake Swanson	3/4/12	1700	Charles Gandy	3/14/12	0900						
4	WATER	WT												
5	WATER	WT												
6	WATER	WT												
7	WATER	WT												
8	WATER	WT												
9	WATER	WT												
10	WATER	WT												
11	WATER	WT												
12	WATER	WT												
13	WATER	WT												
14	WATER	WT												
15	WATER	WT												
16	WATER	WT												
17	WATER	WT												
18	WATER	WT												
19	WATER	WT												
20	WATER	WT												
21	WATER	WT												
22	WATER	WT												
23	WATER	WT												
24	WATER	WT												

ADDITIONAL COMMENTS:

RECEIVED BY / AFFILIATION: Jake Swanson

DATE: 3/4/12

TIME: 1700

ACCEPTED BY / AFFILIATION: Charles Gandy

DATE: 3/14/12

TIME: 0900

SAMPLE CONDITIONS:

TEMP In C: _____

Received on Ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE: Jake Swanson

PRINT Name of SAMPLER: Jake Swanson

SIGNATURE of SAMPLER: [Signature]

DATE Signed: 3/4/12



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
 Client Information:
 Agency: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: Atlanta, GA 30114
 Phone: (770) 394-4326
 Fax: (770) 394-4326
 Requested Due Date: _____

Section B
 Required Project Information:
 Report To: Becky Steever
 Copy To: _____
 Purchase Order #: _____
 Project Name: Yates RS
 Project #: _____

Section C
 Invoice Information:
 Attention: _____
 Company Name: _____
 Address: _____
 Pace Quote #: _____
 Pace Project Manager: kevin.herrington@pacelabs.com
 Pace Profile #: 10840

Section D
 Requested Analytes (Printed Y/N)
 Residual Chlorine (Y/N)
 Analytes Test: TDS, Cl, F, 304, App III/IV Metals, RAD 8315/8320

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analytes Test	Residual Chlorine (Y/N)		
			START DATE	END DATE			Unpreserved	H2SO4	HNO3	HC	NaOH	Na2S2O3	Methanol			Other	
1	YGMW-C41	WT	3/14/09	1400	5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2	YGMW-C43	WT	3/14/09	1450	5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3	YGMW-C43	WT	3/14/09	1485	5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4	YGMW-C43	WT	3/14/09	1485	5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5	YGMW-C43	WT	3/14/09	1485	5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6	YGMW-C43	WT	3/14/09	1485	5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
7	YGMW-C43	WT	3/14/09	1485	5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
8	YGMW-C43	WT	3/14/09	1485	5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
9	YGMW-C43	WT	3/14/09	1485	5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
10	YGMW-C43	WT	3/14/09	1485	5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
11	YGMW-C43	WT	3/14/09	1485	5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
12	YGMW-C43	WT	3/14/09	1485	5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

ADDITIONAL COMMENTS: _____

RECEIVED BY / INITIALS: Jake Swanson
 DATE: 3/14/09
 TIME: 11:00

ACCEPTED BY / INITIALS: _____
 DATE: 3/14/09
 TIME: 11:00

LABORATORY AGENCY: CA
 STATE LOCATION: _____

Page: 3 of 5
 Coe A

TEMP in C: _____

Received on Ice (Y/N): _____
 Cooled Sealed (Y/N): _____
 Samples Intact (Y/N): _____

SAMPLER NAME AND SIGNATURE: Jake Swanson
 PRINT Name of SAMPLER: Jake Swanson
 SIGNATURE of SAMPLER: _____
 DATE Signed: 3/14/09



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Station A

Section B

Section C

Required Client Information:
 Agency: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: Atlanta, GA 30314
 Phone: (770) 304-6526
 Fax: [Blank]

Required Project Information:
 Report To: Becky Stever
 Copy To: [Blank]
 Purchase Order #: [Blank]
 Project Name: Yates AWA
 Project #: [Blank]

Invoice Information:
 Attention: [Blank]
 Company Name: [Blank]
 Address: [Blank]
 Pace Order: [Blank]
 Pace Project Manager: Kevin.Herring@ga-scans.com
 Pace Profile #: 10840

Requesting Agency: State of Georgia
GA

ITEM #	SAMPLE ID (One Character per box) (A-Z, 0-9, /, -)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analytical Test	Residual Chlorine (Y/N)	
				START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			Other
13	YGMW-26A	WT															
14	YGMW-26A	WT															
15	YGMW-49	WT	3421	1451		5	1										
16	EB-02	WT	3421	1508		5	1										
17		WT															
18		WT															
19		WT															
20		WT															
21		WT															
22		WT															
23		WT															
24		WT															

ADDITIONAL COMMENTS:

REMOVED BY / ABSTAIN FROM: [Signature]

DATE: 3-4-21 **TIME:** 1645

ACCEPTED BY / AGENTATION: [Signature]

DATE: 3-4-21 **TIME:** 1645

TEMP In C: [Blank]

Received on Ice: (Y/N)

Custody Sealed: **Cooler:** (Y/N)

Samples Intact: (Y/N)

SAMPLER NAME AND SIGNATURE: Kate Pokrenic
PRINT Name of SAMPLER: Kate Pokrenic
SIGNATURE of SAMPLER: [Signature]
DATE signed: 3-4-21

Page: 49 of 50
 CDD 2



Section A

Required Client Information:

Agency: Georgia Power
 Address: 1070 Bridge Mill Ave
 Atlanta, GA 30114
 Phone: (770)384-5526
 Fax: [blank]
 Requested Due Date: [blank]

Section B
 Required Project Information:

Report To: Becky Stever
 Copy To: [blank]
 Project Name: Yates RS
 Project #: [blank]

Section C
 Invoice Information:

Company Name: [blank]
 Address: [blank]
 Price Quote: [blank]
 Price Project Manager: Kevin.Herring@pacadis.com
 Price Profile #: 10840

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 5 of 5
 COC

SAMPLE ID
 One character per box.
 (A-Z, 0-9 /, -)
 Sample IDs must be unique

MATRIX CODED
 Drinking Water DW10
 Wastewater WW10
 Wastewater WW11
 Product Water PW10
 Surface Water SW10
 Other Other10
 Other Other11

MATRIX CODE (see valid codes to left)
 SAMPLE TYPE (G=GRAB C=COMP)

COLLECTED
 START DATE TIME
 END DATE TIME
 SAMPLE TEMP AT COLLECTION
 # OF CONTAINERS
 Unpreserved
 H2SO4
 HNO3
 HCl
 NaOH
 Na2S2O3
 Methanol
 Other

Requested Analysis Filtered (Y/N)

Residual Chlorine (Y/N)

ITEM #	MATRIX CODE	SAMPLE TYPE	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	TEMP In C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)	
1	YGMW-46	WT														
2	YGMW-46	WT														
3	YGMW-46	WT														
4	YGMW-42	WT	3/4/21	8:45			5/1/21									
5	YGMW-42	WT														
6	YGMW-38	WT	3/4/21	13:45			5/1/21									
7																
8																
9																
10																
11																
12																

ADDITIONAL COMMENTS: [blank]

RES. REQUESTED BY / AFFILIATION: [blank]

DATE: 3/4/21 TIME: 10:45

ACCEPTED BY / AFFILIATION: [blank]

DATE: 3/4/21 TIME: 10:10

SAMPLER NAME AND SIGNATURE: [blank]

PRINT Name of SAMPLER: Kate Pyrekuska

SIGNATURE of SAMPLER: [Signature]

DATE Signed: 3/4/21

TEMP In C: [blank]

Received on Ice (Y/N): [blank]

Custody Sealed (Y/N): [blank]

Cooler (Y/N): [blank]

Samples Intact (Y/N): [blank]



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

Section A Client Information:
 Company: Georgia Power
 Address: 1070 Bridge Mill Ave
 Nolon, GA 30114
 Phone: (770) 394-6526
 Fax: _____

Section B Required Project Information:
 Report To: Betty Steeper
 Copy To: _____
 Purchase Order #: _____
 Project Name: Yates AWA
 Project #:

Section C Invoice Information:
 Attention: _____
 Company Name: _____
 Address: _____
 Pace Quote: _____
 Pace Project Manager: kevin.herring@pacecatlabs.com
 Pace Profile #: 10840

Regulatory Agency: _____
State / Location: GA

ITEM #	MATERIAL Drinking Water Wastef Wastewater Product Seawater Oil Wip Air Other Tissue	CODED DMG WTD WWD PD SLE CLC WPC AGT GTJ TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS		Preservatives							Requested Analytes (Y/N)				Residual Chlorine (Y/N)								
					START DATE TIME	END DATE TIME		Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	TDS	Cl, F, SO4	App III/IV Metals	RAD 9315/9320										
13	WATER	WT			3/4/15	5/5	5	1								X	X	X	X										
14	WATER	WT														X	X	X	X										
15	WATER	WT														X	X	X	X										
16	WATER	WT														X	X	X	X										
17	WATER	WT														X	X	X	X										
18	WATER	WT														X	X	X	X										
19	WATER	WT														X	X	X	X										
20	WATER	WT														X	X	X	X										
21	WATER	WT														X	X	X	X										
22																													
23																													
24																													

ADDITIONAL COMMENTS: _____

REGULATORY AGENCY/STATE: _____

DATE SIGNED: 3/4/15

SIGNATURE OF SAMPLER: Kate R. Henricz

DATE SIGNED: 3/4/15

TEMP IN C: _____

RECEIVED ON ICE: (Y/N)

CUSTODY SEALED: Cooler (Y/N)

SAMPLES INTACT: (Y/N)

PH: 5.51



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
 Required Client Information:
 Property: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: Marietta, GA 30114
 Phone: (770) 364-6826
 Fax:
 Requested Due Date:
 Section B
 Required Project Information:
 Report To: Becky Stever
 Copy To:
 Project Name: Yates AUA
 Project #:
 Section C
 Invoice Information:
 Attention:
 Company Name:
 Address:
 Pace Order:
 Pace Project Manager: Kevin Henning@pacelabs.com
 Pace Profile #: 10640
 Requested Analysis Filtered (Y/N)
 Regulatory Agency:
 State Location:
 ZIP:
 Page: 1 of 5
 CDC #

ITEM #	MATERIAL	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION		# OF CONTAINERS		Preservatives		Analytes Test	Requester's Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	PH
				START DATE	END DATE	UNPRESERVED	H2SO4	HNO3	HC	NaOH	Na2S2O3				
13	YGWC-24SA	WT		1150		5	X	X	X	X	X	X			PH = 5.90
14	YGWC-36A	WT		1235		5	X	X	X	X	X	X			PH = 5.67
15	YGWC-4	WT				5									
16		WT													
17		WT													
18		WT													
19		WT													
20		WT													
21		WT													
22															
23															
24															

ADDITIONAL COMMENTS:
 RECEIVED BY / AFFILIATION:
 DATE: 03/01/2014 TIME: 1605
 ACCEPTED BY / AFFILIATION:
 DATE: 03/01/2014 TIME: 1605
 SAMPLE CONDITIONS:
 RECEIVED ON ICE (Y/N):
 CUSTODY SEALED (Y/N):
 COOLER (Y/N):
 SAMPLES INTACT (Y/N):
 TEMPERATURE IN C:
 SAMPLER NAME AND SIGNATURE:
 PRINT NAME OF SAMPLER: Peter Argyrakis
 SIGNATURE OF SAMPLER:
 DATE SIGNED: 03/01/2014



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Client Information: Company: Georgia Power Address: 1070 Bridge Mill Ave Atlanta, GA 30114 Phone: (770)394-8526 Project #: 34 Requested Due Date:	Section B Required Project Information: Report To: Betty Steever Copy To: Purchase Order #: Project Name: Yates AMA Project #:	Section C Invoice Information: Attention: Company Name: Address: Page Number: Page Project Manager: Kevin Herring@poclab.com Page Profile #: 10840	Section D Regulatory Agency State / Location GA
---	---	--	---

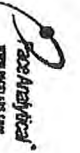
SAMPLE ID
One Character per box.
(A-Z, 0-9, /, .,)

Sample ids must be unique

NO.	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	PRESERVATIVES								ANALYSIS TEST	RESIDUAL CHLORINE (Y/N)							
					START DATE	END DATE		UNPRESERVED	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other			TDS	Cl, F, SO4	APP III/IV METALS	RAD 8316/9320			
13	Water	WT																						
14	Water	WT																						
15	Water	WT																						
16	Water	WT																						
17	Water	WT																						
18	Water	WT																						
19	Water	WT																						
20	Water	WT																						
21																								
22																								
23																								
24																								

REQUISITIONED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
John Swanson	3/4/12	1200	Charles F. Paul	3/14/12	1400	Ph: 5.44

TEMP in C	Received on Ice <input type="checkbox"/> (Y/N)
SAMPLER NAME AND SIGNATURE	Custody Sealed <input type="checkbox"/> Cooler <input type="checkbox"/> (Y/N)
PRINT Name of SAMPLER: John Swanson	Samples Intact <input type="checkbox"/> (Y/N)
SIGNATURE of SAMPLER:	
DATE Signed: 3/4/12	



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Required Client Information:

Company: **Coastal Power**
 Address: **1070 Ex-ops Mill Ave**
 City: **Atlanta, GA 30114**
 Phone: **(770) 394-5525**
 Fax:
 Requested Date:

Section B

Required Project Information:

Report To: **Becky Steever**
 Copy To:
 Purchase Order #:
 Project Name: **Yates RG**
 Project #:

Section C

Breakdown Information:

Attention:
 Company Name:
 Address:
 Pace Order:
 Pace Project Manager: **Kevin.Herrington@epa.com**
 Pace Profile #: **10840**

Page: **3 of 5**

Go 2

Refillatory Agency

GA

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Residual Chlorine (Y/N)	
			START DATE	END DATE			Unpreserved	H2SO4	HNO3	HC	NaOH	Na2S2O3	Methanol			Other
1	WT															
2	WT															
3	WT															
4	WT															
5	WT															
6	WT															
7	WT															
8	WT															
9	WT															
10	WT															
11	WT															
12	WT															

ADDITIONAL COMMENTS:

REQUIRED BY / AFFILIATION: **Delores Swanson** DATE: **3/14/12** TIME: **11:00**

ACCEPTED BY / AFFILIATION: **Delores Swanson** DATE: **3/14/12** TIME: **11:00**

SAMPLER NAME AND SIGNATURE: **Delores Swanson**

PRINT NAME OF SAMPLER: **Delores Swanson**

SIGNATURE OF SAMPLER: **[Signature]** DATE SIGNED: **3/14/12**

TEMP in C:

Received on Ice (Y/N):

Custody Sealed (Y/N):

Cooler (Y/N):

Samples Intact (Y/N):



Section A

Client Information:

Agency: Georgia Power
 Address: 1070 Bridge Hill Ave
 City: Dalton, GA 30714
 Phone: (770) 384-6326
 Fax: (770) 384-6326
 Requested Due Date: _____

Section B
 Requested Project Information:

Report To: Betsy Steever
 Copy To: _____
 Purchase Order #: _____
 Project Name: Yales AMA
 Project #: _____

Section C
 Invoice Information:

Attention: _____
 Company Name: _____
 Address: _____
 Face Quote: _____
 Pace Project Manager: Kevin.Herring@pacelabs.com
 Pace Profile #: 10840
 Requested Analysis: Filtered (Y/N)
 Residual Chlorine (Y/N)
 Regulatory Agency: State/Territory: GA

Page: 41 of 5
 COC 2

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

ITEM #	MATERIAL	CODE	MATRIX	COLLECTED			SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analytical Test	Requester's Analysis Filtered (Y/N)	Residual Chlorine (Y/N)
				START DATE	START TIME	END DATE						
13	XXXXXXXXXX	WT	Drying Wiped Washed Wiped Proced Soak/Soak C/W Wiped And Dried Tissue									
14	XXXXXX	WT										
15	YGWCA9	WT										
16	EB-02	WT		3/4/21	1451		5					
17		WT										
18		WT										
19		WT										
20		WT										
21		WT										
22		WT										
23		WT										
24		WT										

ADDITIONAL COMMENTS: _____

RECEIVED BY / SIGNATURE: *[Signature]* DATE: 3/4/21 TIME: 1045

ACCEPTED BY / SIGNATURE: *[Signature]* DATE: 3/4/21 TIME: 0920

SAMPLER NAME AND SIGNATURE: *[Signature]*

PRINT Name of SAMPLER: Kate Pokiewicz DATE Signed: 3-4-21

SIGNATURE of SAMPLER: *[Signature]*

TEMP in C: _____

Received on ice (Y/N)

Cooler Sealed Cooler (Y/N)

Samples Intact (Y/N)

PH: 5.88



Section A

Required Client Information:

Company: Georgia Power
 Address: 1070 Bridge Mill Ave
 Atlanta, GA 30114
 Phone: (770) 354-6526
 Fax:

Section B
 Required Project Information:

Report To: Ericy Stever
 Copy To:
 Purchase Order #: Yates RS
 Project Name: Project #:

Section C
 Invoice Information:

Attention:
 Company Name:
 Address:
 Parq Quarter:
 Parq Project Manager: kevin.hearn@gsocaps.com
 Parq Profile #: 10940

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

Page: 5 of 5
 GOC 2

ITEM #	MATERIALS				MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Y/N	Residual Chlorine (Y/N)
	Donning Method	DRN	START	END			DATE	TIME	DATE	TIME						
	Unpreserved	HTN	DATE	TIME			DATE	TIME	DATE	TIME						

1	YQW-C-10	WT															
2	YQW-C-10	WT															
3	YQW-C-10	WT															
4	YQW-C-12	WT															
5	YQW-C-12	WT															
6	YQW-C-38	WT															
7																	
8																	
9																	
10																	
11																	
12																	

ADDITIONAL COMMENTS

REG. ACCEPTED BY / DATE/TIME

ACCEPTED BY / DATE/TIME

LABORATORY AGENCY

State of Georgia

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kate Perleuca

SIGNATURE OF SAMPLER: [Signature]

DATE Signed: 3/12/12

TEMP IN C

Received on Ice (Y/N)

Cooler Sealed (Y/N)

Samples Intact (Y/N)



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Required Client Information:

Company: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: Atlanta, GA 30114
 Phone: (770)334-6525
 Fax: (770)334-6525
 Project Name: Yates RB-AMA
 Project #: 10940

Section B

Required Project Information:

Report To: Becky Steever
 Copy To:
 Purchase Order #:
 Project Name: Yates RB-AMA
 Project #:

Section C

Invoice Information:

Analyst: Kevin Lert
 Company Name: Pace Analytical, Inc.
 Address: 10940
 Pace Office: 10940
 Pace Project Manager: Kevin.Lert@paceanalytical.com
 Pace Profile #: 10940

Page: 1 of 2

Regulatory Agency: OCEC

State / Location: GA

SAMPLE ID
 One Character per Box.
 (A-Z, 0-9 /, -)

METHOD: Drinking Water, Wastewater, Waste Water, Produced Water, Sewage, Onsite, WFO, AFO, Other, Tissue
 CODED: DW, WT, WW, PD, SLC, WFO, AFO, OTD, TS

MATRIX CODE (see valid codes to left)

SAMPLE TYPE (G=GRAB C=COMP)

ITEM #	MATERIAL	CODED	MATRIX CODE	SAMPLE TYPE	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analyse Test	Y/N	Requested Analytic: Filtered (Y/N)	Residual Chlorine (Y/N)	PH	
					START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other						TDS
1	YAWM-2	WT		Grab	1/10			X	X	X	X	X	X	X	X	X	X	X	X	X	X	PH = 5.62
2	YAWM-4	WT		Grab	1/30			X	X	X	X	X	X	X	X	X	X	X	X	X	X	PH = 6.80
3	YAWM-5	WT		Grab	1/15			X	X	X	X	X	X	X	X	X	X	X	X	X	X	PH = 5.32
4	YAWM-1	WT		Grab	1/15			X	X	X	X	X	X	X	X	X	X	X	X	X	X	PH = 6.54
5	PZ-35	WT		Grab	1/30			X	X	X	X	X	X	X	X	X	X	X	X	X	X	PH = 5.64
6	EB1	WT		Grab	1/30			X	X	X	X	X	X	X	X	X	X	X	X	X	X	PH = 5.64

REQUISITIONED BY / AFFILIATION: *WGA* DATE: 03/04/04 TIME: 1605 ACCEPTED BY / AFFILIATION: *Charles Farris* DATE: 3/5/04 TIME: 0920

TEMP In C: _____
 Received on Ice (Y/N): _____
 Custody Sealed (Y/N): _____
 Cooler (Y/N): _____
 Samples Intact (Y/N): _____

SAMPLER NAME AND SIGNATURE: *Peter Argyakos*
 PRINT Name of SAMPLER: Peter Argyakos
 SIGNATURE of SAMPLER: *[Signature]*
 DATE Signed: 03/04/04



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

Section A
Required Client Information:

Section B
Required Project Information:

Section C
Invoice Information:

Company: Georgia Power
Address: 1070 Bridge Mill Ave
City: Mableton, GA 30114
Phone: (770)394-6526
Fax:
Requested Date:
Purchase Order #:
Project Name:
Project #:

Report To: Becky Steever
Copy To:
Purchase Order #:
Project Name: Yates AWWA
Project #:

Attention:
Company Name:
Address:
Phone Order:
Pace Project Manager: Kevin.Herring@pacelabs.com
Pace Profile #: 10940

Requested Analytic: Filtrated (TNR)
State Location: GA
Regulatory Agency: CDC/CLB

Page: 2 of 2

ITEM #	MATERIAL	CODES	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analytic Tests			Residual Chlorine (Y/N)			
			START	END			H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	TDS	Cl, F, SO4	App III/IV Metals		RAD 8315/8320		
13	YONGE-SAL PZ-87	WT	3/11/15		5	1							X	X	X	X				
14	YONGE-SAL	WT											X	X	X	X				
15	YONGE-SAL	WT											X	X	X	X				
16		WT											X	X	X	X				
17		WT											X	X	X	X				
18		WT											X	X	X	X				
19		WT											X	X	X	X				
20		WT											X	X	X	X				
21		WT											X	X	X	X				
22																				
23																				
24																				

ADDITIONAL COMMENTS: NONE

NEED ANALYSIS BY / REFILLATION: 3-11-15

ACCEPTED BY / REFILLATION: [Signature]

DATE: 3-11-15

TIME: 11:55

SAMPLER NAME AND SIGNATURE: [Signature]

PRINT Name of SAMPLER: Kate P. Krawiec

SIGNATURE OF SAMPLER: [Signature]

DATE signed: 3-11-15

TEMP In C

Received on ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)

PH-5.51

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92525931	YGWC-36A	6020	Lead	0.001	mg/L	UB	EB Contamination
	YGWC-42	6020	Lead	0.001	mg/L	UB	EB Contamination
	YGWC-23S	300	Sulfate	61.7	mg/L	J	MS/MSD Recovery
92525936	YAMW-4	300	Sulfate	91.7	mg/L	J	MS/MSD Recovery
92525896	No Qualifiers Added						
92525905	No Qualifiers Added						

Abbreviations:

mg/L = milligrams per liter

Qualifiers:

UB = not detected due to blank contamination

J/UJ = Estimated

March 17, 2021

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

RE: Project: YATES
Pace Project No.: 92525931

Dear Ms. Petty:

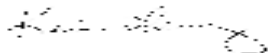
Enclosed are the analytical results for sample(s) received by the laboratory on March 05, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise 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,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Samantha Thomas
Maribel Vital



REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: YATES
Pace Project No.: 92525931

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: YATES
Pace Project No.: 92525931

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92525931001	YGWC-24SA	Water	03/03/21 11:50	03/05/21 09:20
92525931002	YGWC-36A	Water	03/04/21 12:35	03/05/21 09:20
92525931003	DUP-2	Water	03/03/21 00:00	03/05/21 09:20
92525931004	YGWC-23S	Water	03/04/21 12:15	03/05/21 09:20
92525931005	YGWC-41	Water	03/04/21 09:00	03/05/21 09:20
92525931006	YGWC-43	Water	03/04/21 14:50	03/05/21 09:20
92525931007	FB-1	Water	03/04/21 14:00	03/05/21 09:20
92525931008	EB-2	Water	03/04/21 16:35	03/05/21 09:20
92525931009	YGWC-49	Water	03/04/21 14:51	03/05/21 09:20
92525931010	FB-02	Water	03/04/21 15:00	03/05/21 09:20
92525931011	YGWC-42	Water	03/04/21 08:45	03/05/21 09:20
92525931012	YGWC-38	Water	03/04/21 13:45	03/05/21 09:20

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: YATES
Pace Project No.: 92525931

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92525931001	YGWC-24SA	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525931002	YGWC-36A	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525931003	DUP-2	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525931004	YGWC-23S	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525931005	YGWC-41	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525931006	YGWC-43	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525931007	FB-1	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525931008	EB-2	EPA 6010D	DRB	1
		EPA 6020B	CW1	12

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: YATES
Pace Project No.: 92525931

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92525931009	YGWC-49	EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
92525931010	FB-02	SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
92525931011	YGWC-42	EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525931012	YGWC-38	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	DRB	1

PASI-A = Pace Analytical Services - Asheville
PASI-C = Pace Analytical Services - Charlotte
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES
Pace Project No.: 92525931

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92525931001	YGWC-24SA					
	Performed by	CUSTOME			03/08/21 09:05	
		R				
	pH	5.70	Std. Units		03/08/21 09:05	
EPA 6010D	Calcium	2.4	mg/L	1.0	03/12/21 19:29	
EPA 6020B	Barium	0.025	mg/L	0.0050	03/15/21 17:55	
EPA 6020B	Beryllium	0.000099J	mg/L	0.00050	03/15/21 17:55	
SM 2450C-2011	Total Dissolved Solids	70.0	mg/L	10.0	03/06/21 12:30	
EPA 300.0 Rev 2.1 1993	Chloride	8.6	mg/L	1.0	03/14/21 13:07	
92525931002	YGWC-36A					
	Performed by	CUSTOME			03/08/21 09:05	
		R				
	pH	5.67	Std. Units		03/08/21 09:05	
EPA 6010D	Calcium	5.6	mg/L	1.0	03/12/21 19:34	
EPA 6020B	Antimony	0.0015J	mg/L	0.0030	03/15/21 18:17	
EPA 6020B	Barium	0.028	mg/L	0.0050	03/15/21 18:17	
EPA 6020B	Beryllium	0.00016J	mg/L	0.00050	03/15/21 18:17	
EPA 6020B	Boron	0.0088J	mg/L	0.040	03/15/21 18:17	
EPA 6020B	Lead	0.00025J	mg/L	0.0010	03/15/21 18:17	
SM 2450C-2011	Total Dissolved Solids	69.0	mg/L	10.0	03/06/21 12:32	
EPA 300.0 Rev 2.1 1993	Chloride	6.6	mg/L	1.0	03/14/21 13:23	
EPA 300.0 Rev 2.1 1993	Sulfate	6.3	mg/L	1.0	03/14/21 13:23	
92525931003	DUP-2					
EPA 6010D	Calcium	2.4	mg/L	1.0	03/12/21 19:39	
EPA 6020B	Barium	0.026	mg/L	0.0050	03/15/21 18:23	
EPA 6020B	Beryllium	0.00011J	mg/L	0.00050	03/15/21 18:23	
SM 2450C-2011	Total Dissolved Solids	63.0	mg/L	10.0	03/06/21 12:30	
EPA 300.0 Rev 2.1 1993	Chloride	8.6	mg/L	1.0	03/14/21 13:38	
92525931004	YGWC-23S					
	Performed by	CUSTOME			03/08/21 09:05	
		R				
	pH	5.44	Std. Units		03/08/21 09:05	
EPA 6010D	Calcium	10.2	mg/L	1.0	03/12/21 19:43	
EPA 6020B	Barium	0.043	mg/L	0.0050	03/15/21 18:29	
EPA 6020B	Beryllium	0.00013J	mg/L	0.00050	03/15/21 18:29	
EPA 6020B	Boron	1.2	mg/L	0.040	03/15/21 18:29	
EPA 6020B	Chromium	0.00078J	mg/L	0.0050	03/15/21 18:29	
EPA 6020B	Lead	0.00021J	mg/L	0.0010	03/15/21 18:29	
EPA 6020B	Lithium	0.0026J	mg/L	0.030	03/15/21 18:29	
EPA 6020B	Selenium	0.037	mg/L	0.0050	03/15/21 18:29	
SM 2450C-2011	Total Dissolved Solids	96.0	mg/L	10.0	03/06/21 12:32	
EPA 300.0 Rev 2.1 1993	Chloride	1.8	mg/L	1.0	03/14/21 22:35	
EPA 300.0 Rev 2.1 1993	Sulfate	61.7	mg/L	1.0	03/14/21 22:35	M1
92525931005	YGWC-41					
	Performed by	CUSTOME			03/08/21 09:05	
		R				
	pH	4.69	Std. Units		03/08/21 09:05	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES
Pace Project No.: 92525931

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92525931005	YGWC-41					
EPA 6010D	Calcium	16.4	mg/L	1.0	03/12/21 19:48	
EPA 6020B	Barium	0.017	mg/L	0.0050	03/15/21 18:35	
EPA 6020B	Beryllium	0.0015	mg/L	0.00050	03/15/21 18:35	
EPA 6020B	Boron	4.0	mg/L	0.040	03/15/21 18:35	
EPA 6020B	Lithium	0.0021J	mg/L	0.030	03/15/21 18:35	
EPA 6020B	Selenium	0.037	mg/L	0.0050	03/15/21 18:35	
SM 2450C-2011	Total Dissolved Solids	224	mg/L	10.0	03/06/21 12:33	
EPA 300.0 Rev 2.1 1993	Chloride	3.4	mg/L	1.0	03/14/21 23:20	
EPA 300.0 Rev 2.1 1993	Sulfate	117	mg/L	3.0	03/15/21 14:33	
92525931006	YGWC-43					
	Performed by	CUSTOMER			03/08/21 09:05	
	pH	5.88	Std. Units		03/08/21 09:05	
EPA 6010D	Calcium	32.2	mg/L	1.0	03/12/21 19:53	
EPA 6020B	Barium	0.039	mg/L	0.0050	03/15/21 18:52	
EPA 6020B	Beryllium	0.00056	mg/L	0.00050	03/15/21 18:52	
EPA 6020B	Boron	3.6	mg/L	0.040	03/15/21 18:52	
EPA 6020B	Cobalt	0.0015J	mg/L	0.0050	03/15/21 18:52	
EPA 6020B	Lithium	0.025J	mg/L	0.030	03/15/21 18:52	
EPA 6020B	Molybdenum	0.0011J	mg/L	0.010	03/15/21 18:52	
SM 2450C-2011	Total Dissolved Solids	592	mg/L	10.0	03/06/21 12:33	
EPA 300.0 Rev 2.1 1993	Chloride	2.1	mg/L	1.0	03/14/21 23:35	
EPA 300.0 Rev 2.1 1993	Fluoride	0.063J	mg/L	0.10	03/14/21 23:35	
EPA 300.0 Rev 2.1 1993	Sulfate	328	mg/L	7.0	03/15/21 14:48	
92525931008	EB-2					
EPA 6020B	Lead	0.00022J	mg/L	0.0010	03/15/21 19:03	
92525931009	YGWC-49					
	Performed by	CUSTOMER			03/08/21 09:05	
	pH	5.88	Std. Units		03/08/21 09:05	
EPA 6010D	Calcium	13.0	mg/L	1.0	03/12/21 20:17	
EPA 6020B	Barium	0.069	mg/L	0.0050	03/15/21 19:09	
EPA 6020B	Beryllium	0.00010J	mg/L	0.00050	03/15/21 19:09	
EPA 6020B	Chromium	0.0017J	mg/L	0.0050	03/15/21 19:09	
EPA 6020B	Lithium	0.0035J	mg/L	0.030	03/15/21 19:09	
EPA 6020B	Selenium	0.0058	mg/L	0.0050	03/15/21 19:09	
SM 2450C-2011	Total Dissolved Solids	145	mg/L	10.0	03/08/21 11:06	
EPA 300.0 Rev 2.1 1993	Chloride	4.1	mg/L	1.0	03/15/21 01:05	
EPA 300.0 Rev 2.1 1993	Sulfate	75.1	mg/L	1.0	03/15/21 01:05	
92525931011	YGWC-42					
	Performed by	CUSTOMER			03/08/21 09:05	
	pH	5.59	Std. Units		03/08/21 09:05	
EPA 6010D	Calcium	90.7	mg/L	1.0	03/12/21 20:27	
EPA 6020B	Barium	0.030	mg/L	0.0050	03/15/21 19:20	
EPA 6020B	Boron	14.8	mg/L	0.40	03/16/21 16:11	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES
Pace Project No.: 92525931

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525931011	YGWC-42					
EPA 6020B	Cobalt	0.0018J	mg/L	0.0050	03/15/21 19:20	
EPA 6020B	Lithium	0.059	mg/L	0.030	03/15/21 19:20	
EPA 6020B	Molybdenum	0.00085J	mg/L	0.010	03/15/21 19:20	
EPA 6020B	Selenium	0.048	mg/L	0.0050	03/15/21 19:20	
SM 2450C-2011	Total Dissolved Solids	501	mg/L	10.0	03/08/21 11:06	
EPA 300.0 Rev 2.1 1993	Chloride	2.7	mg/L	1.0	03/15/21 01:35	
EPA 300.0 Rev 2.1 1993	Sulfate	537	mg/L	12.0	03/15/21 15:02	
92525931012	YGWC-38					
	Performed by	CUSTOMER			03/08/21 09:05	
	pH	5.01	Std. Units		03/08/21 09:05	
EPA 6010D	Calcium	87.0	mg/L	1.0	03/12/21 20:31	
EPA 6020B	Barium	0.016	mg/L	0.0050	03/15/21 19:26	
EPA 6020B	Beryllium	0.0029	mg/L	0.00050	03/15/21 19:26	
EPA 6020B	Boron	6.4	mg/L	0.040	03/15/21 19:26	
EPA 6020B	Cadmium	0.0013	mg/L	0.00050	03/15/21 19:26	
EPA 6020B	Lithium	0.0067J	mg/L	0.030	03/15/21 19:26	
EPA 6020B	Selenium	0.076	mg/L	0.0050	03/15/21 19:26	
SM 2450C-2011	Total Dissolved Solids	600	mg/L	20.0	03/08/21 11:06	
EPA 300.0 Rev 2.1 1993	Chloride	3.9	mg/L	1.0	03/15/21 01:50	
EPA 300.0 Rev 2.1 1993	Sulfate	356	mg/L	8.0	03/15/21 15:17	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525931

Sample: YGWC-24SA		Lab ID: 92525931001		Collected: 03/03/21 11:50		Received: 03/05/21 09:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/08/21 09:05		
pH	5.70	Std. Units			1		03/08/21 09:05		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	2.4	mg/L	1.0	0.070	1	03/12/21 11:05	03/12/21 19:29	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/12/21 11:07	03/15/21 17:55	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/12/21 11:07	03/15/21 17:55	7440-38-2	
Barium	0.025	mg/L	0.0050	0.00071	1	03/12/21 11:07	03/15/21 17:55	7440-39-3	
Beryllium	0.000099J	mg/L	0.00050	0.000046	1	03/12/21 11:07	03/15/21 17:55	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/12/21 11:07	03/15/21 17:55	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/12/21 11:07	03/15/21 17:55	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/12/21 11:07	03/15/21 17:55	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/12/21 11:07	03/15/21 17:55	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/12/21 11:07	03/15/21 17:55	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/12/21 11:07	03/15/21 17:55	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/12/21 11:07	03/15/21 17:55	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/12/21 11:07	03/15/21 17:55	7782-49-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/10/21 13:05	03/11/21 11:56	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	70.0	mg/L	10.0	10.0	1		03/06/21 12:30		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	8.6	mg/L	1.0	0.60	1		03/14/21 13:07	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/14/21 13:07	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/14/21 13:07	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525931

Sample: YGWC-36A		Lab ID: 92525931002		Collected: 03/04/21 12:35		Received: 03/05/21 09:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/08/21 09:05		
pH	5.67	Std. Units			1		03/08/21 09:05		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	5.6	mg/L	1.0	0.070	1	03/12/21 11:05	03/12/21 19:34	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0015J	mg/L	0.0030	0.00028	1	03/12/21 11:07	03/15/21 18:17	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/12/21 11:07	03/15/21 18:17	7440-38-2	
Barium	0.028	mg/L	0.0050	0.00071	1	03/12/21 11:07	03/15/21 18:17	7440-39-3	
Beryllium	0.00016J	mg/L	0.00050	0.000046	1	03/12/21 11:07	03/15/21 18:17	7440-41-7	
Boron	0.0088J	mg/L	0.040	0.0052	1	03/12/21 11:07	03/15/21 18:17	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/12/21 11:07	03/15/21 18:17	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/12/21 11:07	03/15/21 18:17	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/12/21 11:07	03/15/21 18:17	7440-48-4	
Lead	0.00025J	mg/L	0.0010	0.000036	1	03/12/21 11:07	03/15/21 18:17	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/12/21 11:07	03/15/21 18:17	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/12/21 11:07	03/15/21 18:17	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/12/21 11:07	03/15/21 18:17	7782-49-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/10/21 13:05	03/11/21 11:59	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	69.0	mg/L	10.0	10.0	1		03/06/21 12:32		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	6.6	mg/L	1.0	0.60	1		03/14/21 13:23	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/14/21 13:23	16984-48-8	
Sulfate	6.3	mg/L	1.0	0.50	1		03/14/21 13:23	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525931

Sample: DUP-2		Lab ID: 92525931003		Collected: 03/03/21 00:00	Received: 03/05/21 09:20	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Calcium	2.4	mg/L	1.0	0.070	1	03/12/21 11:05	03/12/21 19:39	7440-70-2	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	ND	mg/L	0.0030	0.00028	1	03/12/21 11:07	03/15/21 18:23	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/12/21 11:07	03/15/21 18:23	7440-38-2	
Barium	0.026	mg/L	0.0050	0.00071	1	03/12/21 11:07	03/15/21 18:23	7440-39-3	
Beryllium	0.00011J	mg/L	0.00050	0.000046	1	03/12/21 11:07	03/15/21 18:23	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/12/21 11:07	03/15/21 18:23	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/12/21 11:07	03/15/21 18:23	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/12/21 11:07	03/15/21 18:23	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/12/21 11:07	03/15/21 18:23	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/12/21 11:07	03/15/21 18:23	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/12/21 11:07	03/15/21 18:23	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/12/21 11:07	03/15/21 18:23	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/12/21 11:07	03/15/21 18:23	7782-49-2	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA							
Mercury	ND	mg/L	0.00020	0.000078	1	03/10/21 13:05	03/11/21 12:01	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	63.0	mg/L	10.0	10.0	1		03/06/21 12:30		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	8.6	mg/L	1.0	0.60	1		03/14/21 13:38	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/14/21 13:38	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/14/21 13:38	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525931

Sample: YGWC-23S		Lab ID: 92525931004		Collected: 03/04/21 12:15		Received: 03/05/21 09:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/08/21 09:05		
pH	5.44	Std. Units			1		03/08/21 09:05		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	10.2	mg/L	1.0	0.070	1	03/12/21 11:05	03/12/21 19:43	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/12/21 11:07	03/15/21 18:29	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/12/21 11:07	03/15/21 18:29	7440-38-2	
Barium	0.043	mg/L	0.0050	0.00071	1	03/12/21 11:07	03/15/21 18:29	7440-39-3	
Beryllium	0.00013J	mg/L	0.00050	0.000046	1	03/12/21 11:07	03/15/21 18:29	7440-41-7	
Boron	1.2	mg/L	0.040	0.0052	1	03/12/21 11:07	03/15/21 18:29	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/12/21 11:07	03/15/21 18:29	7440-43-9	
Chromium	0.00078J	mg/L	0.0050	0.00055	1	03/12/21 11:07	03/15/21 18:29	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/12/21 11:07	03/15/21 18:29	7440-48-4	
Lead	0.00021J	mg/L	0.0010	0.000036	1	03/12/21 11:07	03/15/21 18:29	7439-92-1	
Lithium	0.0026J	mg/L	0.030	0.00081	1	03/12/21 11:07	03/15/21 18:29	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/12/21 11:07	03/15/21 18:29	7439-98-7	
Selenium	0.037	mg/L	0.0050	0.0016	1	03/12/21 11:07	03/15/21 18:29	7782-49-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/10/21 13:05	03/11/21 12:03	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	96.0	mg/L	10.0	10.0	1		03/06/21 12:32		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.8	mg/L	1.0	0.60	1		03/14/21 22:35	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/14/21 22:35	16984-48-8	M1
Sulfate	61.7	mg/L	1.0	0.50	1		03/14/21 22:35	14808-79-8	M1

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525931

Sample: YGWC-41		Lab ID: 92525931005		Collected: 03/04/21 09:00		Received: 03/05/21 09:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/08/21 09:05		
pH	4.69	Std. Units			1		03/08/21 09:05		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	16.4	mg/L	1.0	0.070	1	03/12/21 11:05	03/12/21 19:48	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/12/21 11:07	03/15/21 18:35	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/12/21 11:07	03/15/21 18:35	7440-38-2	
Barium	0.017	mg/L	0.0050	0.00071	1	03/12/21 11:07	03/15/21 18:35	7440-39-3	
Beryllium	0.0015	mg/L	0.00050	0.000046	1	03/12/21 11:07	03/15/21 18:35	7440-41-7	
Boron	4.0	mg/L	0.040	0.0052	1	03/12/21 11:07	03/15/21 18:35	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/12/21 11:07	03/15/21 18:35	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/12/21 11:07	03/15/21 18:35	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/12/21 11:07	03/15/21 18:35	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/12/21 11:07	03/15/21 18:35	7439-92-1	
Lithium	0.0021J	mg/L	0.030	0.00081	1	03/12/21 11:07	03/15/21 18:35	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/12/21 11:07	03/15/21 18:35	7439-98-7	
Selenium	0.037	mg/L	0.0050	0.0016	1	03/12/21 11:07	03/15/21 18:35	7782-49-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/10/21 13:05	03/11/21 12:06	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	224	mg/L	10.0	10.0	1		03/06/21 12:33		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	3.4	mg/L	1.0	0.60	1		03/14/21 23:20	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/14/21 23:20	16984-48-8	
Sulfate	117	mg/L	3.0	1.5	3		03/15/21 14:33	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525931

Sample: YGWC-43		Lab ID: 92525931006		Collected: 03/04/21 14:50		Received: 03/05/21 09:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/08/21 09:05		
pH	5.88	Std. Units			1		03/08/21 09:05		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	32.2	mg/L	1.0	0.070	1	03/12/21 11:05	03/12/21 19:53	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/12/21 11:07	03/15/21 18:52	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/12/21 11:07	03/15/21 18:52	7440-38-2	
Barium	0.039	mg/L	0.0050	0.00071	1	03/12/21 11:07	03/15/21 18:52	7440-39-3	
Beryllium	0.00056	mg/L	0.00050	0.000046	1	03/12/21 11:07	03/15/21 18:52	7440-41-7	
Boron	3.6	mg/L	0.040	0.0052	1	03/12/21 11:07	03/15/21 18:52	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/12/21 11:07	03/15/21 18:52	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/12/21 11:07	03/15/21 18:52	7440-47-3	
Cobalt	0.0015J	mg/L	0.0050	0.00038	1	03/12/21 11:07	03/15/21 18:52	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/12/21 11:07	03/15/21 18:52	7439-92-1	
Lithium	0.025J	mg/L	0.030	0.00081	1	03/12/21 11:07	03/15/21 18:52	7439-93-2	
Molybdenum	0.0011J	mg/L	0.010	0.00069	1	03/12/21 11:07	03/15/21 18:52	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/12/21 11:07	03/15/21 18:52	7782-49-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/10/21 13:05	03/11/21 12:08	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	592	mg/L	10.0	10.0	1		03/06/21 12:33		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	2.1	mg/L	1.0	0.60	1		03/14/21 23:35	16887-00-6	
Fluoride	0.063J	mg/L	0.10	0.050	1		03/14/21 23:35	16984-48-8	
Sulfate	328	mg/L	7.0	3.5	7		03/15/21 14:48	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525931

Sample: FB-1		Lab ID: 92525931007		Collected: 03/04/21 14:00		Received: 03/05/21 09:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	ND	mg/L	1.0	0.070	1	03/12/21 11:05	03/12/21 20:07	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/12/21 11:07	03/15/21 18:58	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/12/21 11:07	03/15/21 18:58	7440-38-2	
Barium	ND	mg/L	0.0050	0.00071	1	03/12/21 11:07	03/15/21 18:58	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/12/21 11:07	03/15/21 18:58	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/12/21 11:07	03/15/21 18:58	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/12/21 11:07	03/15/21 18:58	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/12/21 11:07	03/15/21 18:58	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/12/21 11:07	03/15/21 18:58	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/12/21 11:07	03/15/21 18:58	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/12/21 11:07	03/15/21 18:58	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/12/21 11:07	03/15/21 18:58	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/12/21 11:07	03/15/21 18:58	7782-49-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/10/21 13:05	03/11/21 12:10	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/08/21 11:06		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		03/14/21 23:50	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/14/21 23:50	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/14/21 23:50	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525931

Sample: EB-2		Lab ID: 92525931008		Collected: 03/04/21 16:35	Received: 03/05/21 09:20	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.070	1	03/12/21 11:05	03/12/21 20:12	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	03/12/21 11:07	03/15/21 19:03	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	03/12/21 11:07	03/15/21 19:03	7440-38-2		
Barium	ND	mg/L	0.0050	0.00071	1	03/12/21 11:07	03/15/21 19:03	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	03/12/21 11:07	03/15/21 19:03	7440-41-7		
Boron	ND	mg/L	0.040	0.0052	1	03/12/21 11:07	03/15/21 19:03	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00012	1	03/12/21 11:07	03/15/21 19:03	7440-43-9		
Chromium	ND	mg/L	0.0050	0.00055	1	03/12/21 11:07	03/15/21 19:03	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	03/12/21 11:07	03/15/21 19:03	7440-48-4		
Lead	0.00022J	mg/L	0.0010	0.000036	1	03/12/21 11:07	03/15/21 19:03	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	03/12/21 11:07	03/15/21 19:03	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	03/12/21 11:07	03/15/21 19:03	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0016	1	03/12/21 11:07	03/15/21 19:03	7782-49-2		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/10/21 13:05	03/11/21 12:13	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/08/21 11:06			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		03/15/21 00:50	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		03/15/21 00:50	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		03/15/21 00:50	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525931

Sample: YGWC-49		Lab ID: 92525931009		Collected: 03/04/21 14:51		Received: 03/05/21 09:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/08/21 09:05		
pH	5.88	Std. Units			1		03/08/21 09:05		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	13.0	mg/L	1.0	0.070	1	03/12/21 11:05	03/12/21 20:17	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/12/21 11:07	03/15/21 19:09	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/12/21 11:07	03/15/21 19:09	7440-38-2	
Barium	0.069	mg/L	0.0050	0.00071	1	03/12/21 11:07	03/15/21 19:09	7440-39-3	
Beryllium	0.00010J	mg/L	0.00050	0.000046	1	03/12/21 11:07	03/15/21 19:09	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/12/21 11:07	03/15/21 19:09	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/12/21 11:07	03/15/21 19:09	7440-43-9	
Chromium	0.0017J	mg/L	0.0050	0.00055	1	03/12/21 11:07	03/15/21 19:09	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/12/21 11:07	03/15/21 19:09	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/12/21 11:07	03/15/21 19:09	7439-92-1	
Lithium	0.0035J	mg/L	0.030	0.00081	1	03/12/21 11:07	03/15/21 19:09	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/12/21 11:07	03/15/21 19:09	7439-98-7	
Selenium	0.0058	mg/L	0.0050	0.0016	1	03/12/21 11:07	03/15/21 19:09	7782-49-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/10/21 13:05	03/11/21 12:22	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	145	mg/L	10.0	10.0	1		03/08/21 11:06		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	4.1	mg/L	1.0	0.60	1		03/15/21 01:05	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/15/21 01:05	16984-48-8	
Sulfate	75.1	mg/L	1.0	0.50	1		03/15/21 01:05	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525931

Sample: FB-02		Lab ID: 92525931010		Collected: 03/04/21 15:00	Received: 03/05/21 09:20	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Calcium	ND	mg/L	1.0	0.070	1	03/12/21 11:05	03/12/21 20:22	7440-70-2	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	ND	mg/L	0.0030	0.00028	1	03/12/21 11:07	03/15/21 19:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/12/21 11:07	03/15/21 19:15	7440-38-2	
Barium	ND	mg/L	0.0050	0.00071	1	03/12/21 11:07	03/15/21 19:15	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/12/21 11:07	03/15/21 19:15	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/12/21 11:07	03/15/21 19:15	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/12/21 11:07	03/15/21 19:15	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/12/21 11:07	03/15/21 19:15	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/12/21 11:07	03/15/21 19:15	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/12/21 11:07	03/15/21 19:15	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/12/21 11:07	03/15/21 19:15	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/12/21 11:07	03/15/21 19:15	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/12/21 11:07	03/15/21 19:15	7782-49-2	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA							
Mercury	ND	mg/L	0.00020	0.000078	1	03/10/21 13:05	03/11/21 12:25	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/08/21 11:06		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	ND	mg/L	1.0	0.60	1		03/15/21 01:20	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/15/21 01:20	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/15/21 01:20	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525931

Sample: YGWC-42		Lab ID: 92525931011		Collected: 03/04/21 08:45		Received: 03/05/21 09:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/08/21 09:05		
pH	5.59	Std. Units			1		03/08/21 09:05		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	90.7	mg/L	1.0	0.070	1	03/12/21 11:05	03/12/21 20:27	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/12/21 11:07	03/15/21 19:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/12/21 11:07	03/15/21 19:20	7440-38-2	
Barium	0.030	mg/L	0.0050	0.00071	1	03/12/21 11:07	03/15/21 19:20	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/12/21 11:07	03/15/21 19:20	7440-41-7	
Boron	14.8	mg/L	0.40	0.052	10	03/12/21 11:07	03/16/21 16:11	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/12/21 11:07	03/15/21 19:20	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/12/21 11:07	03/15/21 19:20	7440-47-3	
Cobalt	0.0018J	mg/L	0.0050	0.00038	1	03/12/21 11:07	03/15/21 19:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/12/21 11:07	03/15/21 19:20	7439-92-1	
Lithium	0.059	mg/L	0.030	0.00081	1	03/12/21 11:07	03/15/21 19:20	7439-93-2	
Molybdenum	0.00085J	mg/L	0.010	0.00069	1	03/12/21 11:07	03/15/21 19:20	7439-98-7	
Selenium	0.048	mg/L	0.0050	0.0016	1	03/12/21 11:07	03/15/21 19:20	7782-49-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/11/21 15:15	03/12/21 09:29	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	501	mg/L	10.0	10.0	1		03/08/21 11:06		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	2.7	mg/L	1.0	0.60	1		03/15/21 01:35	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/15/21 01:35	16984-48-8	
Sulfate	537	mg/L	12.0	6.0	12		03/15/21 15:02	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525931

Sample: YGWC-38		Lab ID: 92525931012		Collected: 03/04/21 13:45		Received: 03/05/21 09:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/08/21 09:05		
pH	5.01	Std. Units			1		03/08/21 09:05		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	87.0	mg/L	1.0	0.070	1	03/12/21 11:05	03/12/21 20:31	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/12/21 11:07	03/15/21 19:26	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/12/21 11:07	03/15/21 19:26	7440-38-2	
Barium	0.016	mg/L	0.0050	0.00071	1	03/12/21 11:07	03/15/21 19:26	7440-39-3	
Beryllium	0.0029	mg/L	0.00050	0.000046	1	03/12/21 11:07	03/15/21 19:26	7440-41-7	
Boron	6.4	mg/L	0.040	0.0052	1	03/12/21 11:07	03/15/21 19:26	7440-42-8	
Cadmium	0.0013	mg/L	0.00050	0.00012	1	03/12/21 11:07	03/15/21 19:26	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/12/21 11:07	03/15/21 19:26	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/12/21 11:07	03/15/21 19:26	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/12/21 11:07	03/15/21 19:26	7439-92-1	
Lithium	0.0067J	mg/L	0.030	0.00081	1	03/12/21 11:07	03/15/21 19:26	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/12/21 11:07	03/15/21 19:26	7439-98-7	
Selenium	0.076	mg/L	0.0050	0.0016	1	03/12/21 11:07	03/15/21 19:26	7782-49-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/11/21 15:15	03/12/21 09:38	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	600	mg/L	20.0	20.0	1		03/08/21 11:06		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	3.9	mg/L	1.0	0.60	1		03/15/21 01:50	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/15/21 01:50	16984-48-8	
Sulfate	356	mg/L	8.0	4.0	8		03/15/21 15:17	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525931

QC Batch:	606033	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92525931001, 92525931002, 92525931003, 92525931004, 92525931005, 92525931006, 92525931007, 92525931008, 92525931009, 92525931010, 92525931011, 92525931012

METHOD BLANK: 3192886 Matrix: Water
Associated Lab Samples: 92525931001, 92525931002, 92525931003, 92525931004, 92525931005, 92525931006, 92525931007, 92525931008, 92525931009, 92525931010, 92525931011, 92525931012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	03/12/21 19:19	

LABORATORY CONTROL SAMPLE: 3192887

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	111	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3192890 3192891

Parameter	Units	92525936001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	1.5	1	1	2.6	2.6	107	111	75-125	2	20	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525931

QC Batch: 606045 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525931001, 92525931002, 92525931003, 92525931004, 92525931005, 92525931006, 92525931007, 92525931008, 92525931009, 92525931010, 92525931011, 92525931012

METHOD BLANK: 3193005 Matrix: Water
Associated Lab Samples: 92525931001, 92525931002, 92525931003, 92525931004, 92525931005, 92525931006, 92525931007, 92525931008, 92525931009, 92525931010, 92525931011, 92525931012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	03/15/21 17:43	
Arsenic	mg/L	ND	0.0050	0.00078	03/15/21 17:43	
Barium	mg/L	ND	0.0050	0.00071	03/15/21 17:43	
Beryllium	mg/L	ND	0.00050	0.000046	03/15/21 17:43	
Boron	mg/L	ND	0.040	0.0052	03/15/21 17:43	
Cadmium	mg/L	ND	0.00050	0.00012	03/15/21 17:43	
Chromium	mg/L	ND	0.0050	0.00055	03/15/21 17:43	
Cobalt	mg/L	ND	0.0050	0.00038	03/15/21 17:43	
Lead	mg/L	ND	0.0010	0.000036	03/15/21 17:43	
Lithium	mg/L	ND	0.030	0.00081	03/15/21 17:43	
Molybdenum	mg/L	ND	0.010	0.00069	03/15/21 17:43	
Selenium	mg/L	ND	0.0050	0.0016	03/15/21 17:43	

LABORATORY CONTROL SAMPLE: 3193006

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% 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	102	80-120	
Beryllium	mg/L	0.1	0.11	106	80-120	
Boron	mg/L	1	1.1	109	80-120	
Cadmium	mg/L	0.1	0.11	105	80-120	
Chromium	mg/L	0.1	0.11	105	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.10	101	80-120	
Lithium	mg/L	0.1	0.11	105	80-120	
Molybdenum	mg/L	0.1	0.10	103	80-120	
Selenium	mg/L	0.1	0.10	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3193007 3193008

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Spike Conc.	Result	Result								
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	103	104	75-125	1	20		
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	101	103	75-125	2	20		
Barium	mg/L	0.025	0.1	0.1	0.13	0.13	100	101	75-125	1	20		

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525931

Parameter	Units	3193007		3193008		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92525931001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Beryllium	mg/L	0.000099J	0.1	0.1	0.097	0.096	97	96	75-125	1	20		
Boron	mg/L	ND	1	1	0.98	0.97	98	97	75-125	1	20		
Cadmium	mg/L	ND	0.1	0.1	0.11	0.10	106	105	75-125	1	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	102	101	75-125	1	20		
Cobalt	mg/L	ND	0.1	0.1	0.10	0.099	101	99	75-125	2	20		
Lead	mg/L	ND	0.1	0.1	0.099	0.10	99	101	75-125	2	20		
Lithium	mg/L	ND	0.1	0.1	0.10	0.10	101	99	75-125	2	20		
Molybdenum	mg/L	ND	0.1	0.1	0.098	0.099	97	99	75-125	1	20		
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	101	104	75-125	2	20		

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525931

QC Batch: 605556 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525931001, 92525931002, 92525931003, 92525931004, 92525931005, 92525931006, 92525931007, 92525931008, 92525931009, 92525931010

METHOD BLANK: 3190111 Matrix: Water
Associated Lab Samples: 92525931001, 92525931002, 92525931003, 92525931004, 92525931005, 92525931006, 92525931007, 92525931008, 92525931009, 92525931010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	03/11/21 11:23	

LABORATORY CONTROL SAMPLE: 3190112

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3190113 3190114

Parameter	Units	92526541001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max		Qual
										RPD	RPD	
Mercury	mg/L	ND	0.0025	0.0025	0.0023	0.0024	91	94	75-125	3	20	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525931

QC Batch: 605942 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525931011, 92525931012

METHOD BLANK: 3192294 Matrix: Water
Associated Lab Samples: 92525931011, 92525931012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	03/12/21 09:24	

LABORATORY CONTROL SAMPLE: 3192295

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3192296 3192297

Parameter	Units	3192296		3192297		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0024	0.0024	97	97	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.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525931

QC Batch: 604765 Analysis Method: SM 2450C-2011
QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525931001, 92525931002, 92525931003, 92525931004, 92525931005, 92525931006

METHOD BLANK: 3186310 Matrix: Water
Associated Lab Samples: 92525931001, 92525931002, 92525931003, 92525931004, 92525931005, 92525931006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/06/21 12:29	

LABORATORY CONTROL SAMPLE: 3186311

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	371	93	90-111	

SAMPLE DUPLICATE: 3186312

Parameter	Units	92525346009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	217	220	1	10	

SAMPLE DUPLICATE: 3186313

Parameter	Units	92525824003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	45.0	61.0	30	10	D6

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525931

QC Batch: 604895 Analysis Method: SM 2450C-2011
QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525931007, 92525931008, 92525931009, 92525931010, 92525931011, 92525931012

METHOD BLANK: 3186921 Matrix: Water
Associated Lab Samples: 92525931007, 92525931008, 92525931009, 92525931010, 92525931011, 92525931012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/08/21 11:05	

LABORATORY CONTROL SAMPLE: 3186922

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	387	97	90-111	

SAMPLE DUPLICATE: 3186923

Parameter	Units	92526103001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	154	311	68	10	D6

SAMPLE DUPLICATE: 3186924

Parameter	Units	92525936007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	856	878	3	10	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525931

QC Batch: 606456 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: 92525931001, 92525931002, 92525931003

METHOD BLANK: 3195140 Matrix: Water
Associated Lab Samples: 92525931001, 92525931002, 92525931003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/13/21 20:29	
Fluoride	mg/L	ND	0.10	0.050	03/13/21 20:29	
Sulfate	mg/L	ND	1.0	0.50	03/13/21 20:29	

LABORATORY CONTROL SAMPLE: 3195141

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.5	97	90-110	
Fluoride	mg/L	2.5	2.5	100	90-110	
Sulfate	mg/L	50	51.4	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195142 3195143

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92525335019	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	0.99J	50	50	52.8	52.3	104	103	90-110	1	10		
Fluoride	mg/L	0.10	2.5	2.5	2.7	2.7	106	104	90-110	2	10		
Sulfate	mg/L	9.6	50	50	65.5	64.7	112	110	90-110	1	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195144 3195145

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92525346005	Spike Conc.	Spike Conc.	Result								
Chloride	mg/L	16.6	50	50	66.4	68.7	100	104	90-110	3	10		
Fluoride	mg/L	ND	2.5	2.5	2.5	2.6	98	103	90-110	5	10		
Sulfate	mg/L	88.8	50	50	115	117	53	56	90-110	1	10	M1	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525931

QC Batch:	606496	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: 92525931004, 92525931005, 92525931006, 92525931007, 92525931008, 92525931009, 92525931010, 92525931011, 92525931012

METHOD BLANK: 3195315 Matrix: Water
Associated Lab Samples: 92525931004, 92525931005, 92525931006, 92525931007, 92525931008, 92525931009, 92525931010, 92525931011, 92525931012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/14/21 21:28	
Fluoride	mg/L	ND	0.10	0.050	03/14/21 21:28	
Sulfate	mg/L	ND	1.0	0.50	03/14/21 21:28	

LABORATORY CONTROL SAMPLE: 3195316

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	46.5	93	90-110	
Fluoride	mg/L	2.5	2.7	107	90-110	
Sulfate	mg/L	50	46.8	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195317 3195318

Parameter	Units	92525931004		3195318		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	1.8	50	50	50.1	49.8	97	96	90-110	1	10
Fluoride	mg/L	ND	2.5	2.5	2.8	2.8	111	111	90-110	0	10 M1
Sulfate	mg/L	61.7	50	50	98.6	98.0	74	73	90-110	1	10 M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195319 3195320

Parameter	Units	92525936002		3195320		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	22.9	50	50	67.6	70.1	89	94	90-110	4	10 M1
Fluoride	mg/L	0.14	2.5	2.5	2.4	2.6	91	97	90-110	6	10
Sulfate	mg/L	91.7	50	50	126	124	70	65	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.

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: YATES
Pace Project No.: 92525931

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.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES
Pace Project No.: 92525931

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525931001	YGWC-24SA				
92525931002	YGWC-36A				
92525931004	YGWC-23S				
92525931005	YGWC-41				
92525931006	YGWC-43				
92525931009	YGWC-49				
92525931011	YGWC-42				
92525931012	YGWC-38				
92525931001	YGWC-24SA	EPA 3010A	606033	EPA 6010D	606330
92525931002	YGWC-36A	EPA 3010A	606033	EPA 6010D	606330
92525931003	DUP-2	EPA 3010A	606033	EPA 6010D	606330
92525931004	YGWC-23S	EPA 3010A	606033	EPA 6010D	606330
92525931005	YGWC-41	EPA 3010A	606033	EPA 6010D	606330
92525931006	YGWC-43	EPA 3010A	606033	EPA 6010D	606330
92525931007	FB-1	EPA 3010A	606033	EPA 6010D	606330
92525931008	EB-2	EPA 3010A	606033	EPA 6010D	606330
92525931009	YGWC-49	EPA 3010A	606033	EPA 6010D	606330
92525931010	FB-02	EPA 3010A	606033	EPA 6010D	606330
92525931011	YGWC-42	EPA 3010A	606033	EPA 6010D	606330
92525931012	YGWC-38	EPA 3010A	606033	EPA 6010D	606330
92525931001	YGWC-24SA	EPA 3005A	606045	EPA 6020B	606338
92525931002	YGWC-36A	EPA 3005A	606045	EPA 6020B	606338
92525931003	DUP-2	EPA 3005A	606045	EPA 6020B	606338
92525931004	YGWC-23S	EPA 3005A	606045	EPA 6020B	606338
92525931005	YGWC-41	EPA 3005A	606045	EPA 6020B	606338
92525931006	YGWC-43	EPA 3005A	606045	EPA 6020B	606338
92525931007	FB-1	EPA 3005A	606045	EPA 6020B	606338
92525931008	EB-2	EPA 3005A	606045	EPA 6020B	606338
92525931009	YGWC-49	EPA 3005A	606045	EPA 6020B	606338
92525931010	FB-02	EPA 3005A	606045	EPA 6020B	606338
92525931011	YGWC-42	EPA 3005A	606045	EPA 6020B	606338
92525931012	YGWC-38	EPA 3005A	606045	EPA 6020B	606338
92525931001	YGWC-24SA	EPA 7470A	605556	EPA 7470A	605621
92525931002	YGWC-36A	EPA 7470A	605556	EPA 7470A	605621
92525931003	DUP-2	EPA 7470A	605556	EPA 7470A	605621
92525931004	YGWC-23S	EPA 7470A	605556	EPA 7470A	605621
92525931005	YGWC-41	EPA 7470A	605556	EPA 7470A	605621
92525931006	YGWC-43	EPA 7470A	605556	EPA 7470A	605621
92525931007	FB-1	EPA 7470A	605556	EPA 7470A	605621
92525931008	EB-2	EPA 7470A	605556	EPA 7470A	605621
92525931009	YGWC-49	EPA 7470A	605556	EPA 7470A	605621
92525931010	FB-02	EPA 7470A	605556	EPA 7470A	605621
92525931011	YGWC-42	EPA 7470A	605942	EPA 7470A	606185
92525931012	YGWC-38	EPA 7470A	605942	EPA 7470A	606185
92525931001	YGWC-24SA	SM 2450C-2011	604765		
92525931002	YGWC-36A	SM 2450C-2011	604765		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES
Pace Project No.: 92525931

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525931003	DUP-2	SM 2450C-2011	604765		
92525931004	YGWC-23S	SM 2450C-2011	604765		
92525931005	YGWC-41	SM 2450C-2011	604765		
92525931006	YGWC-43	SM 2450C-2011	604765		
92525931007	FB-1	SM 2450C-2011	604895		
92525931008	EB-2	SM 2450C-2011	604895		
92525931009	YGWC-49	SM 2450C-2011	604895		
92525931010	FB-02	SM 2450C-2011	604895		
92525931011	YGWC-42	SM 2450C-2011	604895		
92525931012	YGWC-38	SM 2450C-2011	604895		
92525931001	YGWC-24SA	EPA 300.0 Rev 2.1 1993	606456		
92525931002	YGWC-36A	EPA 300.0 Rev 2.1 1993	606456		
92525931003	DUP-2	EPA 300.0 Rev 2.1 1993	606456		
92525931004	YGWC-23S	EPA 300.0 Rev 2.1 1993	606496		
92525931005	YGWC-41	EPA 300.0 Rev 2.1 1993	606496		
92525931006	YGWC-43	EPA 300.0 Rev 2.1 1993	606496		
92525931007	FB-1	EPA 300.0 Rev 2.1 1993	606496		
92525931008	EB-2	EPA 300.0 Rev 2.1 1993	606496		
92525931009	YGWC-49	EPA 300.0 Rev 2.1 1993	606496		
92525931010	FB-02	EPA 300.0 Rev 2.1 1993	606496		
92525931011	YGWC-42	EPA 300.0 Rev 2.1 1993	606496		
92525931012	YGWC-38	EPA 300.0 Rev 2.1 1993	606496		

REPORT OF LABORATORY ANALYSIS

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



Document Name:
Sample Condition Upon Receipt(SCUR)
Document No.:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020
Page 1 of 2
Issuing Authority:
Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: G A Power

Project #: **W0# : 92525931**

Carrier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____



Study Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 3/5/21
CM

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 230 Type of Ice: Wet Blue None

Cooler Temp: 2.0 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 5°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.0

SDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?
 Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2	
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3	
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6	
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7	
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8	
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9	
-Includes Date/Time/ID/Analysis Matrix:	<u>W</u>		
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10	
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11	
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY _____ Field Data Required? Yes No

Lot ID of split containers: _____

CLIENT NOTIFICATION/RESOLUTION _____

Person contacted _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



Document Name:
 Sample Condition Upon Receipt(SCUR)
 Document No.:
 F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020

Page 2 of 2

Issuing Authority:

*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

Project #

WO# : 92525931

PM: KLH1

Due Date: 03/19/21

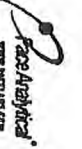
CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFLU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 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)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	V5GU-20 ml Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1																												
2																												
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Required Client Information:
 Property: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: Marietta, GA 30114
 Phone: (770) 364-6826
 Fax:
 Email:
Report To: Becky Steever
Copy To:
Project Name: Yates AUSA
Project #:
Purchase Order #:
Company Name:
Address:
Phone:
Facility Name: Pace Project Manager: Kevin Heming (@pacecatlab.com)
Facility Profile #: 10940
Requested/Analysis Filtered (Y/N)

Page: 1 of 5

COC a

Regulatory Agency:
 State/Location:
 GA

Section B

ITEM #	MATERIAL Description: Water, Wastewater, Produced Water, Oil, WFO, AOC, Other, Tissue	COOD Description: DM, WFD, SLD, OLC, WFO, AOC, OTC, TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION		PRESERVATIVES					APPLY AS TEST (Y/N)	TEMP In C	LAB TEST CONDITIONS																							
					START DATE	END DATE	UNPRESERVED	H2SO4	HNO3	HC	NaOH	Na2S2O3	Methanol			Other	TOS	Cl, F, SO4	App III/IV Metals	RAD 6315/8320	Residual Chlorine (Y/N)	Received on Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)														
					TIME	TIME	WT	WT	WT	WT	WT	WT	WT			WT	WT	WT	WT	WT						WT													
13	YGM-C-24SA								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			
14	YGM-C-38A								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
15	YGM-C-42								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	
16									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	
17									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	
18									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	
19									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	
20									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	
21									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	
22									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	
23									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	
24									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	

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	Peter Argenti	DATE Signed:	03/01/2014
SIGNATURE of SAMPLER:	[Signature]		

DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	LAB TEST CONDITIONS
03/01/2014	1605	[Signature]	03/01/2014	0920	



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
 Client Information:
 Company: Georgia Power
 Address: 1070 Bridge Mill Ave
 Location: GA 30114

Section B
 Required Project Information:
 Report To: Betty Steever
 Copy To:
 Project Name: Yates AMA
 Project #:

Section C
 Invoice Information:
 Attention:
 Company Name:
 Address:
 Page Quote:
 Page Project Manager: Kevin Herring@pcacalabs.com
 Page Profile #: 10840

Client Name: (770)394-8526 Fax: State / Location: GA
 Requested Due Date: Regulatory Agency: **DEC**

SAMPLE ID
 One Character per box.
 (A-Z, 0-9, /, -)

Sample ids must be unique

MATRIX CODE (see valid codes to left)
 SAMPLE TYPE (G=GRAB C=COMP)

COLLECTED

START DATE	END DATE
3/4 1215	

SAMPLE TEMP AT COLLECTION

# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other
5	<input checked="" type="checkbox"/>							

Requested Analytes Returned (Y/N)

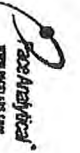
Analytes Test	Y/N
TDS	X
Cl, F, SO4	X
App III/IV Metals	X
RAD 6316/6320	X

Residual Chlorine (Y/N)
 PH: 5.44

NO	MATERIAL	CODE	MATRIX CODE	SAMPLE TYPE	COLLECTED		SAMPLE TEMP AT COLLECTION	PRESERVATIVES									ANALYTES TEST				TEMP IN C	RECEIVED ON ICE (Y/N)	CUSTODY SEALED COOLER (Y/N)	SAMPLES INTACT (Y/N)
					START DATE	END DATE		UNPRESERVED	H2SO4	HNO3	HCl	NaOH	Na2S2O3	METHANOL	OTHER	TDS	Cl, F, SO4	APP III/IV METALS	RAD 6316/6320					
13	Water	WT			3/4	1215	5	<input checked="" type="checkbox"/>								X	X	X	X					
14	Water	WT														X	X	X	X					
15	Water	WT														X	X	X	X					
16	Water	WT														X	X	X	X					
17	Water	WT														X	X	X	X					
18	Water	WT														X	X	X	X					
19	Water	WT														X	X	X	X					
20	Water	WT														X	X	X	X					
21																								
22																								
23																								
24																								

REQUISITIONED BY / AFFILIATION: Jake Swanson 3/4/12 1200
 ACCEPTED BY / AFFILIATION: Charles Paul 3/14/12 1900

SAMPLER NAME AND SIGNATURE: Jake Swanson
 DATE SIGNED: 3/4/12



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Company: **Goody's Power**
 Address: **1070 Ex-ops Mill Ave**
 City: **Atlanta, GA 30114**

Requested Project Information:
 Report To: **Becky Steever**
 Copy To: _____

Section B
 Required Project Information:
 Project Name: **Yates RG**
 Project #: _____

Section C
 Analytical Information:
 Attribution: _____
 Company Name: _____
 Address: _____
 Pace Order #: _____
 Pace Project Manager: **Kevin.Herrington@pass-analytical.com**
 Pace Profile #: **10840**

Regulatory Agency: **State of Georgia**
 Ref: **GA**

Page: **3 of 5**
Go 2

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Residual Chlorine (Y/N)
			START DATE	END DATE			Unpreserved	H2SO4	HNO3	HC	NaOH	Na2S2O3	Methanol		
1	WT														
2	WT														
3	WT														
4	WT														
5	WT														
6	WT														
7	WT														
8	WT														
9	WT														
10	WT														
11	WT														
12	WT														

ADDITIONAL COMMENTS

Requested by/Installation: **Joe Swanson** Date: **3/14/12** Time: **11:00**

Accepted by/Installation: **Kevin Herrington** Date: **3/14/12** Time: **11:00**

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: **Joe Swanson**

SIGNATURE of SAMPLER: *[Signature]* DATE Signed: **3/14/12**

SAMPLE CONDITIONS

TEMP in C: _____

Received on Ice (Y/N): _____

Custody Sealed (Y/N): _____

Cooler (Y/N): _____

Samples Intact (Y/N): _____

Phone 5 469
 1-5-888-1111
 5-88



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Client Information:
 Agency: Georgia Power
 Address: 1070 Bridge Hill Ave
 City: Dalton, GA 30714
 Phone: (770) 364-6526
 Fax: (770) 364-6526
 Project Name: Yates AMA
 Project #: 108-410

Section B

Requested Project Information:
 Report To: Becky Steeper
 Copy To:
 Purchase Order #:
 Address:
 Company Name:
 Project #:

Section C

Project Information:
 Attention:
 Analyst Name:
 Address:
 Project Manager: Kevin Herring@pacelabs.com
 Project #: 108-410
 Requested Analysis: Filtered (Y/N)
 Residual Chlorine (Y/N)

Regulatory Agency: State Troopers
 GA

Page: 41 of 5
 COC

ITEM #	MATRIX	CODE	WT	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analytical Test	Y/N	Requester's Signature	Date	Time	Temp in C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)		
				START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol											Other	
13	Water	WT																								
14	Water	WT																								
15	Water	WT																								
16	Water	WT																								
17	Water	WT																								
18	Water	WT																								
19	Water	WT																								
20	Water	WT																								
21	Water	WT																								
22	Water	WT																								
23	Water	WT																								
24	Water	WT																								

ADDITIONAL COMMENTS:

BEI INITIALED BY / DATE: [Signature] 3-4-21

ACCEPTED BY / DATE: [Signature] 3-4-21

SAMPLER NAME AND SIGNATURE: Kate Polkewicz

PRINT Name of SAMPLER: Kate Polkewicz

SIGNATURE of SAMPLER: [Signature]

DATE Signed: 3-4-21



Section A

Required Client Information:
 Company: Georgia Power
 Address: 1070 Bridge Mill Ave
 Atlanta, GA 30114
 Phone: (770) 354-5526
 Fax: [Blank]
 Requested Due Date: [Blank]

Section B
Required Project Information:
 Report To: Eddy Stever
 Copy To: [Blank]
 Purchase Order #: [Blank]
 Project Name: Yates RS
 Project #:

Section C
Invoice Information:
 Attention: [Blank]
 Company Name: [Blank]
 Address: [Blank]
 Part Number: [Blank]
 Price Project Manager: Kevin.Henry@gsocaps.com
 Price Profile #: 10940

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

Page : 5 of 5
 GOC 2

SAMPLE ID
 One Character per box.
 (A-Z, 0-9 / .)

- MATRIX**
- | | |
|----------------|-------|
| Domestic Water | DOMES |
| Water | WTR |
| Waste Water | WTR |
| Product | PD |
| Source | SLD |
| Oil | OLE |
| Weld | WPS |
| Air | ACT |
| Other | OTC |
| Trace | TR |

ITEM #	MATRIX	CODES	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION		# OF CONTAINERS	Preservatives	Analysis Test	Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)
					START DATE	START TIME	END DATE	END TIME						
1	YGMW-09	WT												
2	YGMW-46	WT												
3	YGMW-41	WT												
4	YGMW-42	WT		3471845				5/1			X	X	X	X
5	YGMW-42	WT									X	X	X	X
5	YGMW-38	WT		34211345				5/1			X	X	X	X
6														
7														
8														
9														
10														
11														
12														

ADDITIONAL COMMENTS	RELA INKURSED BY / ASES LATION	DATE	TIME	ACCEPTED BY / ASES LATION	DATE	TIME	MARK E COMMENTS
	YGMW-09	3421	1345	Kevin.Henry@gsocaps.com	3/14/22		

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Kate Pickens
 SIGNATURE OF SAMPLER: *Kate Pickens*
 DATE Signed: 3/12

TEMP In C
 Received on Ice (Y/N)
 Cooled Sealed Cooler (Y/N)
 Samples Intact (Y/N)

March 17, 2021

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

RE: Project: YATES
Pace Project No.: 92525936

Dear Ms. Petty:

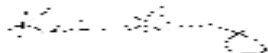
Enclosed are the analytical results for sample(s) received by the laboratory on March 05, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise 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,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Samantha Thomas
Maribel Vital



REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: YATES
Pace Project No.: 92525936

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: YATES
Pace Project No.: 92525936

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92525936001	YAMW-2	Water	03/03/21 14:10	03/05/21 09:20
92525936002	YAMW-4	Water	03/03/21 13:05	03/05/21 09:20
92525936003	YAMW-5	Water	03/04/21 14:15	03/05/21 09:20
92525936004	YAMW-1	Water	03/03/21 15:15	03/05/21 09:20
92525936005	PZ-35	Water	03/04/21 15:30	03/05/21 09:20
92525936006	EB1	Water	03/04/21 16:00	03/05/21 09:20
92525936007	PZ-37	Water	03/04/21 11:55	03/05/21 09:20

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: YATES
Pace Project No.: 92525936

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92525936001	YAMW-2	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525936002	YAMW-4	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525936003	YAMW-5	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525936004	YAMW-1	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525936005	PZ-35	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525936006	EB1	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525936007	PZ-37	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3

PASI-A = Pace Analytical Services - Asheville
PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: YATES
Pace Project No.: 92525936

Lab ID	Sample ID	Method	Analysts	Analytes Reported
---------------	------------------	---------------	-----------------	--------------------------

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES
Pace Project No.: 92525936

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92525936001	YAMW-2					
	Performed by	CUSTOMER			03/08/21 09:05	
	pH	5.67	Std. Units		03/08/21 09:05	
EPA 6010D	Calcium	1.5	mg/L	1.0	03/12/21 20:36	
EPA 6020B	Barium	0.0082	mg/L	0.0050	03/15/21 19:32	
EPA 6020B	Boron	0.032J	mg/L	0.040	03/15/21 19:32	
EPA 6020B	Chromium	0.0012J	mg/L	0.0050	03/15/21 19:32	
EPA 6020B	Cobalt	0.00082J	mg/L	0.0050	03/15/21 19:32	
EPA 6020B	Lead	0.000080J	mg/L	0.0010	03/15/21 19:32	
SM 2450C-2011	Total Dissolved Solids	40.0	mg/L	10.0	03/06/21 12:30	
EPA 300.0 Rev 2.1 1993	Chloride	2.5	mg/L	1.0	03/15/21 02:05	
EPA 300.0 Rev 2.1 1993	Sulfate	7.9	mg/L	1.0	03/15/21 02:05	
92525936002	YAMW-4					
	Performed by	CUSTOMER			03/08/21 09:05	
	pH	6.80	Std. Units		03/08/21 09:05	
EPA 6010D	Calcium	20.6	mg/L	1.0	03/12/21 21:05	
EPA 6020B	Antimony	0.00062J	mg/L	0.0030	03/15/21 19:38	
EPA 6020B	Arsenic	0.00079J	mg/L	0.0050	03/15/21 19:38	
EPA 6020B	Barium	0.021	mg/L	0.0050	03/15/21 19:38	
EPA 6020B	Boron	0.81	mg/L	0.040	03/15/21 19:38	
EPA 6020B	Cobalt	0.0010J	mg/L	0.0050	03/15/21 19:38	
EPA 6020B	Lead	0.000096J	mg/L	0.0010	03/15/21 19:38	
EPA 6020B	Lithium	0.020J	mg/L	0.030	03/15/21 19:38	
EPA 6020B	Molybdenum	0.0049J	mg/L	0.010	03/15/21 19:38	
SM 2450C-2011	Total Dissolved Solids	245	mg/L	10.0	03/06/21 12:30	
EPA 300.0 Rev 2.1 1993	Chloride	22.9	mg/L	1.0	03/15/21 02:20	M1
EPA 300.0 Rev 2.1 1993	Fluoride	0.14	mg/L	0.10	03/15/21 02:20	
EPA 300.0 Rev 2.1 1993	Sulfate	91.7	mg/L	1.0	03/15/21 02:20	M1
92525936003	YAMW-5					
	Performed by	CUSTOMER			03/08/21 09:05	
	pH	5.32	Std. Units		03/08/21 09:05	
EPA 6010D	Calcium	53.8	mg/L	1.0	03/12/21 21:10	
EPA 6020B	Barium	0.039	mg/L	0.0050	03/15/21 19:43	
EPA 6020B	Beryllium	0.00013J	mg/L	0.00050	03/15/21 19:43	
EPA 6020B	Boron	6.1	mg/L	0.040	03/15/21 19:43	
EPA 6020B	Cadmium	0.00018J	mg/L	0.00050	03/15/21 19:43	
EPA 6020B	Lead	0.000041J	mg/L	0.0010	03/15/21 19:43	
EPA 6020B	Lithium	0.016J	mg/L	0.030	03/15/21 19:43	
EPA 6020B	Selenium	0.061	mg/L	0.0050	03/15/21 19:43	
SM 2450C-2011	Total Dissolved Solids	604	mg/L	20.0	03/08/21 11:06	
EPA 300.0 Rev 2.1 1993	Chloride	3.7	mg/L	1.0	03/15/21 03:04	
EPA 300.0 Rev 2.1 1993	Sulfate	340	mg/L	8.0	03/15/21 16:46	
92525936004	YAMW-1					
	Performed by	CUSTOMER			03/08/21 09:05	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES
Pace Project No.: 92525936

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92525936004	YAMW-1					
	pH	6.54	Std. Units		03/08/21 09:05	
EPA 6010D	Calcium	6.9	mg/L	1.0	03/12/21 21:15	
EPA 6020B	Antimony	0.025	mg/L	0.0030	03/15/21 20:00	
EPA 6020B	Barium	0.035	mg/L	0.0050	03/15/21 20:00	
EPA 6020B	Boron	0.039J	mg/L	0.040	03/15/21 20:00	
EPA 6020B	Chromium	0.00076J	mg/L	0.0050	03/15/21 20:00	
EPA 6020B	Cobalt	0.018	mg/L	0.0050	03/15/21 20:00	
EPA 6020B	Lithium	0.022J	mg/L	0.030	03/15/21 20:00	
EPA 6020B	Molybdenum	0.0037J	mg/L	0.010	03/15/21 20:00	
SM 2450C-2011	Total Dissolved Solids	121	mg/L	10.0	03/06/21 12:30	
EPA 300.0 Rev 2.1 1993	Chloride	6.1	mg/L	1.0	03/15/21 03:49	
EPA 300.0 Rev 2.1 1993	Sulfate	16.9	mg/L	1.0	03/15/21 03:49	
92525936005	PZ-35					
	Performed by	CUSTOMER			03/08/21 09:05	
	pH	5.64	Std. Units		03/08/21 09:05	
EPA 6010D	Calcium	4.4	mg/L	1.0	03/12/21 21:20	
EPA 6020B	Antimony	0.00039J	mg/L	0.0030	03/15/21 20:06	
EPA 6020B	Barium	0.033	mg/L	0.0050	03/15/21 20:06	
EPA 6020B	Beryllium	0.00025J	mg/L	0.00050	03/15/21 20:06	
EPA 6020B	Boron	0.012J	mg/L	0.040	03/15/21 20:06	
EPA 6020B	Chromium	0.00070J	mg/L	0.0050	03/15/21 20:06	
EPA 6020B	Lead	0.00015J	mg/L	0.0010	03/15/21 20:06	
EPA 6020B	Lithium	0.0015J	mg/L	0.030	03/15/21 20:06	
SM 2450C-2011	Total Dissolved Solids	59.0	mg/L	10.0	03/08/21 11:06	
EPA 300.0 Rev 2.1 1993	Chloride	6.7	mg/L	1.0	03/15/21 04:04	
EPA 300.0 Rev 2.1 1993	Sulfate	8.8	mg/L	1.0	03/15/21 04:04	
92525936007	PZ-37					
	Performed by	CUSTOMER			03/08/21 09:05	
	pH	5.51	Std. Units		03/08/21 09:05	
EPA 6010D	Calcium	118	mg/L	1.0	03/12/21 21:29	
EPA 6020B	Barium	0.036	mg/L	0.0050	03/15/21 20:18	
EPA 6020B	Beryllium	0.00017J	mg/L	0.00050	03/15/21 20:18	
EPA 6020B	Boron	12.4	mg/L	0.40	03/16/21 16:17	
EPA 6020B	Cadmium	0.00028J	mg/L	0.00050	03/15/21 20:18	
EPA 6020B	Cobalt	0.0030J	mg/L	0.0050	03/15/21 20:18	
EPA 6020B	Lithium	0.028J	mg/L	0.030	03/15/21 20:18	
EPA 6020B	Molybdenum	0.0024J	mg/L	0.010	03/15/21 20:18	
EPA 6020B	Selenium	0.27	mg/L	0.0050	03/15/21 20:18	
SM 2450C-2011	Total Dissolved Solids	856	mg/L	20.0	03/08/21 11:07	
EPA 300.0 Rev 2.1 1993	Chloride	3.9	mg/L	1.0	03/15/21 04:34	
EPA 300.0 Rev 2.1 1993	Sulfate	485	mg/L	11.0	03/15/21 17:00	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525936

Sample: YAMW-2		Lab ID: 92525936001		Collected: 03/03/21 14:10		Received: 03/05/21 09:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/08/21 09:05		
pH	5.67	Std. Units			1		03/08/21 09:05		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	1.5	mg/L	1.0	0.070	1	03/12/21 11:05	03/12/21 20:36	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/12/21 11:07	03/15/21 19:32	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/12/21 11:07	03/15/21 19:32	7440-38-2	
Barium	0.0082	mg/L	0.0050	0.00071	1	03/12/21 11:07	03/15/21 19:32	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/12/21 11:07	03/15/21 19:32	7440-41-7	
Boron	0.032J	mg/L	0.040	0.0052	1	03/12/21 11:07	03/15/21 19:32	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/12/21 11:07	03/15/21 19:32	7440-43-9	
Chromium	0.0012J	mg/L	0.0050	0.00055	1	03/12/21 11:07	03/15/21 19:32	7440-47-3	
Cobalt	0.00082J	mg/L	0.0050	0.00038	1	03/12/21 11:07	03/15/21 19:32	7440-48-4	
Lead	0.000080J	mg/L	0.0010	0.000036	1	03/12/21 11:07	03/15/21 19:32	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/12/21 11:07	03/15/21 19:32	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/12/21 11:07	03/15/21 19:32	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/12/21 11:07	03/15/21 19:32	7782-49-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/11/21 15:15	03/12/21 09:41	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	40.0	mg/L	10.0	10.0	1		03/06/21 12:30		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	2.5	mg/L	1.0	0.60	1		03/15/21 02:05	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/15/21 02:05	16984-48-8	
Sulfate	7.9	mg/L	1.0	0.50	1		03/15/21 02:05	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525936

Sample: YAMW-4		Lab ID: 92525936002		Collected: 03/03/21 13:05		Received: 03/05/21 09:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/08/21 09:05		
pH	6.80	Std. Units			1		03/08/21 09:05		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	20.6	mg/L	1.0	0.070	1	03/12/21 11:05	03/12/21 21:05	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00062J	mg/L	0.0030	0.00028	1	03/12/21 11:07	03/15/21 19:38	7440-36-0	
Arsenic	0.00079J	mg/L	0.0050	0.00078	1	03/12/21 11:07	03/15/21 19:38	7440-38-2	
Barium	0.021	mg/L	0.0050	0.00071	1	03/12/21 11:07	03/15/21 19:38	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/12/21 11:07	03/15/21 19:38	7440-41-7	
Boron	0.81	mg/L	0.040	0.0052	1	03/12/21 11:07	03/15/21 19:38	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/12/21 11:07	03/15/21 19:38	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/12/21 11:07	03/15/21 19:38	7440-47-3	
Cobalt	0.0010J	mg/L	0.0050	0.00038	1	03/12/21 11:07	03/15/21 19:38	7440-48-4	
Lead	0.000096J	mg/L	0.0010	0.000036	1	03/12/21 11:07	03/15/21 19:38	7439-92-1	
Lithium	0.020J	mg/L	0.030	0.00081	1	03/12/21 11:07	03/15/21 19:38	7439-93-2	
Molybdenum	0.0049J	mg/L	0.010	0.00069	1	03/12/21 11:07	03/15/21 19:38	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/12/21 11:07	03/15/21 19:38	7782-49-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/11/21 15:15	03/12/21 09:43	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	245	mg/L	10.0	10.0	1		03/06/21 12:30		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	22.9	mg/L	1.0	0.60	1		03/15/21 02:20	16887-00-6	M1
Fluoride	0.14	mg/L	0.10	0.050	1		03/15/21 02:20	16984-48-8	
Sulfate	91.7	mg/L	1.0	0.50	1		03/15/21 02:20	14808-79-8	M1

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525936

Sample: YAMW-5		Lab ID: 92525936003		Collected: 03/04/21 14:15		Received: 03/05/21 09:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/08/21 09:05		
pH	5.32	Std. Units			1		03/08/21 09:05		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	53.8	mg/L	1.0	0.070	1	03/12/21 11:05	03/12/21 21:10	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/12/21 11:07	03/15/21 19:43	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/12/21 11:07	03/15/21 19:43	7440-38-2	
Barium	0.039	mg/L	0.0050	0.00071	1	03/12/21 11:07	03/15/21 19:43	7440-39-3	
Beryllium	0.00013J	mg/L	0.00050	0.000046	1	03/12/21 11:07	03/15/21 19:43	7440-41-7	
Boron	6.1	mg/L	0.040	0.0052	1	03/12/21 11:07	03/15/21 19:43	7440-42-8	
Cadmium	0.00018J	mg/L	0.00050	0.00012	1	03/12/21 11:07	03/15/21 19:43	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/12/21 11:07	03/15/21 19:43	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/12/21 11:07	03/15/21 19:43	7440-48-4	
Lead	0.000041J	mg/L	0.0010	0.000036	1	03/12/21 11:07	03/15/21 19:43	7439-92-1	
Lithium	0.016J	mg/L	0.030	0.00081	1	03/12/21 11:07	03/15/21 19:43	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/12/21 11:07	03/15/21 19:43	7439-98-7	
Selenium	0.061	mg/L	0.0050	0.0016	1	03/12/21 11:07	03/15/21 19:43	7782-49-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/11/21 15:15	03/12/21 09:45	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	604	mg/L	20.0	20.0	1		03/08/21 11:06		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	3.7	mg/L	1.0	0.60	1		03/15/21 03:04	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/15/21 03:04	16984-48-8	
Sulfate	340	mg/L	8.0	4.0	8		03/15/21 16:46	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525936

Sample: YAMW-1		Lab ID: 92525936004		Collected: 03/03/21 15:15		Received: 03/05/21 09:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/08/21 09:05		
pH	6.54	Std. Units			1		03/08/21 09:05		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	6.9	mg/L	1.0	0.070	1	03/12/21 11:05	03/12/21 21:15	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.025	mg/L	0.0030	0.00028	1	03/12/21 11:07	03/15/21 20:00	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/12/21 11:07	03/15/21 20:00	7440-38-2	
Barium	0.035	mg/L	0.0050	0.00071	1	03/12/21 11:07	03/15/21 20:00	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/12/21 11:07	03/15/21 20:00	7440-41-7	
Boron	0.039J	mg/L	0.040	0.0052	1	03/12/21 11:07	03/15/21 20:00	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/12/21 11:07	03/15/21 20:00	7440-43-9	
Chromium	0.00076J	mg/L	0.0050	0.00055	1	03/12/21 11:07	03/15/21 20:00	7440-47-3	
Cobalt	0.018	mg/L	0.0050	0.00038	1	03/12/21 11:07	03/15/21 20:00	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/12/21 11:07	03/15/21 20:00	7439-92-1	
Lithium	0.022J	mg/L	0.030	0.00081	1	03/12/21 11:07	03/15/21 20:00	7439-93-2	
Molybdenum	0.0037J	mg/L	0.010	0.00069	1	03/12/21 11:07	03/15/21 20:00	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/12/21 11:07	03/15/21 20:00	7782-49-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/11/21 15:15	03/12/21 09:52	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	121	mg/L	10.0	10.0	1		03/06/21 12:30		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	6.1	mg/L	1.0	0.60	1		03/15/21 03:49	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/15/21 03:49	16984-48-8	
Sulfate	16.9	mg/L	1.0	0.50	1		03/15/21 03:49	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525936

Sample: PZ-35		Lab ID: 92525936005		Collected: 03/04/21 15:30		Received: 03/05/21 09:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/08/21 09:05		
pH	5.64	Std. Units			1		03/08/21 09:05		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	4.4	mg/L	1.0	0.070	1	03/12/21 11:05	03/12/21 21:20	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00039J	mg/L	0.0030	0.00028	1	03/12/21 11:07	03/15/21 20:06	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/12/21 11:07	03/15/21 20:06	7440-38-2	
Barium	0.033	mg/L	0.0050	0.00071	1	03/12/21 11:07	03/15/21 20:06	7440-39-3	
Beryllium	0.00025J	mg/L	0.00050	0.000046	1	03/12/21 11:07	03/15/21 20:06	7440-41-7	
Boron	0.012J	mg/L	0.040	0.0052	1	03/12/21 11:07	03/15/21 20:06	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/12/21 11:07	03/15/21 20:06	7440-43-9	
Chromium	0.00070J	mg/L	0.0050	0.00055	1	03/12/21 11:07	03/15/21 20:06	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/12/21 11:07	03/15/21 20:06	7440-48-4	
Lead	0.00015J	mg/L	0.0010	0.000036	1	03/12/21 11:07	03/15/21 20:06	7439-92-1	
Lithium	0.0015J	mg/L	0.030	0.00081	1	03/12/21 11:07	03/15/21 20:06	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/12/21 11:07	03/15/21 20:06	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/12/21 11:07	03/15/21 20:06	7782-49-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/11/21 15:15	03/12/21 09:55	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	59.0	mg/L	10.0	10.0	1		03/08/21 11:06		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	6.7	mg/L	1.0	0.60	1		03/15/21 04:04	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/15/21 04:04	16984-48-8	
Sulfate	8.8	mg/L	1.0	0.50	1		03/15/21 04:04	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525936

Sample: EB1		Lab ID: 92525936006		Collected: 03/04/21 16:00		Received: 03/05/21 09:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	ND	mg/L	1.0	0.070	1	03/12/21 11:05	03/12/21 21:25	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/12/21 11:07	03/15/21 20:12	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/12/21 11:07	03/15/21 20:12	7440-38-2	
Barium	ND	mg/L	0.0050	0.00071	1	03/12/21 11:07	03/15/21 20:12	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/12/21 11:07	03/15/21 20:12	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/12/21 11:07	03/15/21 20:12	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/12/21 11:07	03/15/21 20:12	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/12/21 11:07	03/15/21 20:12	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/12/21 11:07	03/15/21 20:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/12/21 11:07	03/15/21 20:12	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/12/21 11:07	03/15/21 20:12	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/12/21 11:07	03/15/21 20:12	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/12/21 11:07	03/15/21 20:12	7782-49-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/11/21 15:15	03/12/21 09:57	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/08/21 11:07		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		03/15/21 04:19	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/15/21 04:19	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/15/21 04:19	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525936

Sample: PZ-37		Lab ID: 92525936007		Collected: 03/04/21 11:55		Received: 03/05/21 09:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/08/21 09:05		
pH	5.51	Std. Units			1		03/08/21 09:05		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	118	mg/L	1.0	0.070	1	03/12/21 11:05	03/12/21 21:29	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/12/21 11:07	03/15/21 20:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/12/21 11:07	03/15/21 20:18	7440-38-2	
Barium	0.036	mg/L	0.0050	0.00071	1	03/12/21 11:07	03/15/21 20:18	7440-39-3	
Beryllium	0.00017J	mg/L	0.00050	0.000046	1	03/12/21 11:07	03/15/21 20:18	7440-41-7	
Boron	12.4	mg/L	0.40	0.052	10	03/12/21 11:07	03/16/21 16:17	7440-42-8	
Cadmium	0.00028J	mg/L	0.00050	0.00012	1	03/12/21 11:07	03/15/21 20:18	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/12/21 11:07	03/15/21 20:18	7440-47-3	
Cobalt	0.0030J	mg/L	0.0050	0.00038	1	03/12/21 11:07	03/15/21 20:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/12/21 11:07	03/15/21 20:18	7439-92-1	
Lithium	0.028J	mg/L	0.030	0.00081	1	03/12/21 11:07	03/15/21 20:18	7439-93-2	
Molybdenum	0.0024J	mg/L	0.010	0.00069	1	03/12/21 11:07	03/15/21 20:18	7439-98-7	
Selenium	0.27	mg/L	0.0050	0.0016	1	03/12/21 11:07	03/15/21 20:18	7782-49-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/11/21 15:15	03/12/21 10:00	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	856	mg/L	20.0	20.0	1		03/08/21 11:07		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	3.9	mg/L	1.0	0.60	1		03/15/21 04:34	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/15/21 04:34	16984-48-8	
Sulfate	485	mg/L	11.0	5.5	11		03/15/21 17:00	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525936

QC Batch: 606033 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525936001, 92525936002, 92525936003, 92525936004, 92525936005, 92525936006, 92525936007

METHOD BLANK: 3192886 Matrix: Water
Associated Lab Samples: 92525936001, 92525936002, 92525936003, 92525936004, 92525936005, 92525936006, 92525936007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	03/12/21 19:19	

LABORATORY CONTROL SAMPLE: 3192887

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	111	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3192890 3192891

Parameter	Units	3192890		3192891		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92525936001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Calcium	mg/L	1.5	1	1	2.6	2.6	107	111	75-125	2	20

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525936

QC Batch: 606045 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92525936001, 92525936002, 92525936003, 92525936004, 92525936005, 92525936006, 92525936007

METHOD BLANK: 3193005 Matrix: Water
Associated Lab Samples: 92525936001, 92525936002, 92525936003, 92525936004, 92525936005, 92525936006, 92525936007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	03/15/21 17:43	
Arsenic	mg/L	ND	0.0050	0.00078	03/15/21 17:43	
Barium	mg/L	ND	0.0050	0.00071	03/15/21 17:43	
Beryllium	mg/L	ND	0.00050	0.000046	03/15/21 17:43	
Boron	mg/L	ND	0.040	0.0052	03/15/21 17:43	
Cadmium	mg/L	ND	0.00050	0.00012	03/15/21 17:43	
Chromium	mg/L	ND	0.0050	0.00055	03/15/21 17:43	
Cobalt	mg/L	ND	0.0050	0.00038	03/15/21 17:43	
Lead	mg/L	ND	0.0010	0.000036	03/15/21 17:43	
Lithium	mg/L	ND	0.030	0.00081	03/15/21 17:43	
Molybdenum	mg/L	ND	0.010	0.00069	03/15/21 17:43	
Selenium	mg/L	ND	0.0050	0.0016	03/15/21 17:43	

LABORATORY CONTROL SAMPLE: 3193006

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% 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	102	80-120	
Beryllium	mg/L	0.1	0.11	106	80-120	
Boron	mg/L	1	1.1	109	80-120	
Cadmium	mg/L	0.1	0.11	105	80-120	
Chromium	mg/L	0.1	0.11	105	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.10	101	80-120	
Lithium	mg/L	0.1	0.11	105	80-120	
Molybdenum	mg/L	0.1	0.10	103	80-120	
Selenium	mg/L	0.1	0.10	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3193007 3193008

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92525931001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	103	104	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	101	103	75-125	2	20	
Barium	mg/L	0.025	0.1	0.1	0.13	0.13	100	101	75-125	1	20	
Beryllium	mg/L	0.000099J	0.1	0.1	0.097	0.096	97	96	75-125	1	20	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525936

Parameter	Units	3193007		3193008		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92525931001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Boron	mg/L	ND	1	1	0.98	0.97	98	97	75-125	1	20		
Cadmium	mg/L	ND	0.1	0.1	0.11	0.10	106	105	75-125	1	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	102	101	75-125	1	20		
Cobalt	mg/L	ND	0.1	0.1	0.10	0.099	101	99	75-125	2	20		
Lead	mg/L	ND	0.1	0.1	0.099	0.10	99	101	75-125	2	20		
Lithium	mg/L	ND	0.1	0.1	0.10	0.10	101	99	75-125	2	20		
Molybdenum	mg/L	ND	0.1	0.1	0.098	0.099	97	99	75-125	1	20		
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	101	104	75-125	2	20		

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525936

QC Batch: 605942 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525936001, 92525936002, 92525936003, 92525936004, 92525936005, 92525936006, 92525936007

METHOD BLANK: 3192294 Matrix: Water
Associated Lab Samples: 92525936001, 92525936002, 92525936003, 92525936004, 92525936005, 92525936006, 92525936007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	03/12/21 09:24	

LABORATORY CONTROL SAMPLE: 3192295

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3192296 3192297

Parameter	Units	3192296		3192297		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92525931011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0024	97	97	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.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525936

QC Batch: 604765 Analysis Method: SM 2450C-2011
QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525936001, 92525936002, 92525936004

METHOD BLANK: 3186310 Matrix: Water
Associated Lab Samples: 92525936001, 92525936002, 92525936004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/06/21 12:29	

LABORATORY CONTROL SAMPLE: 3186311

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	371	93	90-111	

SAMPLE DUPLICATE: 3186312

Parameter	Units	92525346009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	217	220	1	10	

SAMPLE DUPLICATE: 3186313

Parameter	Units	92525824003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	45.0	61.0	30	10	D6

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525936

QC Batch: 604895 Analysis Method: SM 2450C-2011
QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92525936003, 92525936005, 92525936006, 92525936007

METHOD BLANK: 3186921 Matrix: Water
Associated Lab Samples: 92525936003, 92525936005, 92525936006, 92525936007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/08/21 11:05	

LABORATORY CONTROL SAMPLE: 3186922

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	387	97	90-111	

SAMPLE DUPLICATE: 3186923

Parameter	Units	92526103001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	154	311	68	10	D6

SAMPLE DUPLICATE: 3186924

Parameter	Units	92525936007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	856	878	3	10	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525936

QC Batch: 606496	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: 92525936001, 92525936002, 92525936003, 92525936004, 92525936005, 92525936006, 92525936007

METHOD BLANK: 3195315 Matrix: Water
Associated Lab Samples: 92525936001, 92525936002, 92525936003, 92525936004, 92525936005, 92525936006, 92525936007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/14/21 21:28	
Fluoride	mg/L	ND	0.10	0.050	03/14/21 21:28	
Sulfate	mg/L	ND	1.0	0.50	03/14/21 21:28	

LABORATORY CONTROL SAMPLE: 3195316

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	46.5	93	90-110	
Fluoride	mg/L	2.5	2.7	107	90-110	
Sulfate	mg/L	50	46.8	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195317 3195318

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92525931004 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	1.8	50	50	50.1	49.8	97	96	90-110	1	10		
Fluoride	mg/L	ND	2.5	2.5	2.8	2.8	111	111	90-110	0	10	M1	
Sulfate	mg/L	61.7	50	50	98.6	98.0	74	73	90-110	1	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195319 3195320

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92525936002 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	22.9	50	50	67.6	70.1	89	94	90-110	4	10	M1	
Fluoride	mg/L	0.14	2.5	2.5	2.4	2.6	91	97	90-110	6	10		
Sulfate	mg/L	91.7	50	50	126	124	70	65	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.

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: YATES
Pace Project No.: 92525936

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.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES
Pace Project No.: 92525936

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525936001	YAMW-2				
92525936002	YAMW-4				
92525936003	YAMW-5				
92525936004	YAMW-1				
92525936005	PZ-35				
92525936007	PZ-37				
92525936001	YAMW-2	EPA 3010A	606033	EPA 6010D	606330
92525936002	YAMW-4	EPA 3010A	606033	EPA 6010D	606330
92525936003	YAMW-5	EPA 3010A	606033	EPA 6010D	606330
92525936004	YAMW-1	EPA 3010A	606033	EPA 6010D	606330
92525936005	PZ-35	EPA 3010A	606033	EPA 6010D	606330
92525936006	EB1	EPA 3010A	606033	EPA 6010D	606330
92525936007	PZ-37	EPA 3010A	606033	EPA 6010D	606330
92525936001	YAMW-2	EPA 3005A	606045	EPA 6020B	606338
92525936002	YAMW-4	EPA 3005A	606045	EPA 6020B	606338
92525936003	YAMW-5	EPA 3005A	606045	EPA 6020B	606338
92525936004	YAMW-1	EPA 3005A	606045	EPA 6020B	606338
92525936005	PZ-35	EPA 3005A	606045	EPA 6020B	606338
92525936006	EB1	EPA 3005A	606045	EPA 6020B	606338
92525936007	PZ-37	EPA 3005A	606045	EPA 6020B	606338
92525936001	YAMW-2	EPA 7470A	605942	EPA 7470A	606185
92525936002	YAMW-4	EPA 7470A	605942	EPA 7470A	606185
92525936003	YAMW-5	EPA 7470A	605942	EPA 7470A	606185
92525936004	YAMW-1	EPA 7470A	605942	EPA 7470A	606185
92525936005	PZ-35	EPA 7470A	605942	EPA 7470A	606185
92525936006	EB1	EPA 7470A	605942	EPA 7470A	606185
92525936007	PZ-37	EPA 7470A	605942	EPA 7470A	606185
92525936001	YAMW-2	SM 2450C-2011	604765		
92525936002	YAMW-4	SM 2450C-2011	604765		
92525936003	YAMW-5	SM 2450C-2011	604895		
92525936004	YAMW-1	SM 2450C-2011	604765		
92525936005	PZ-35	SM 2450C-2011	604895		
92525936006	EB1	SM 2450C-2011	604895		
92525936007	PZ-37	SM 2450C-2011	604895		
92525936001	YAMW-2	EPA 300.0 Rev 2.1 1993	606496		
92525936002	YAMW-4	EPA 300.0 Rev 2.1 1993	606496		
92525936003	YAMW-5	EPA 300.0 Rev 2.1 1993	606496		
92525936004	YAMW-1	EPA 300.0 Rev 2.1 1993	606496		
92525936005	PZ-35	EPA 300.0 Rev 2.1 1993	606496		
92525936006	EB1	EPA 300.0 Rev 2.1 1993	606496		
92525936007	PZ-37	EPA 300.0 Rev 2.1 1993	606496		

REPORT OF LABORATORY ANALYSIS

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



Document Name:
Sample Condition Upon Receipt(SCUR)

Document Revised: October 28, 2020

Page 1 of 2

Document No.:
F-CAR-CS-033-Rev.07

Issuing Authority:
Pace Carolinas Quality Office

laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition
Upon Receipt

Client Name:

G.A. Power

Project #:

WO#: 92525936



Courier: Fed Ex UPS USPS Client
 Commercial Pace Other:

custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *3/5/24*

acking Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

ermometer: IR Gun ID: *230* Type of Ice: Wet Blue None

Yes No N/A

ooler Temp: *2.0* Correction Factor: Add/Subtract (°C) *0.0*

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

ooler Temp Corrected (°C): *2.0*

JSDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

Yes No

Comments/Discrepancy:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <i>W</i>		
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



Document Name:
Sample Condition Upon Receipt(SCUR)

Document Revised: October 28, 2020
Page 2 of 2

Document No.:
F-CAR-CS-033-Rev.07

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.

Project #

WO# : 92525936

PM: KLH1

Due Date: 03/19/21

CLIENT: GA-GA Power

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHG

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

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 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)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
Required Client Information:

Company: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: Atlanta, GA 30114
 Phone: (770)334-6525
 Fax: [blank]
 Requested Date: [blank]

Section B
Required Project Information:

Report To: Becky Steever
 Copy To: [blank]
 Purchase Order #: [blank]
 Project Name: Yates RS-AMA
 Project #:

Section C
Invoice Information:

Analyst: [blank]
 Company Name: [blank]
 Address: [blank]
 Pace Quote: [blank]
 Pace Project Manager: Kevin.Herrington@pacelabs.com
 Pace Profile #: 10940

Page: 1 of 2
 OSCV
 Regulatory Agency: [blank]
 State / Location: GA

SAMPLE ID
 One Character per Box.
 (A-Z, 0-9 / -)

METHOD: Drinking Water, Wastewater, Waste Water, Produced Water, Sewage, Onsite, WFO, AFO, Other, Tissue
 CODED: DW, WT, WW, PD, SLC, WFO, AFO, OTD, TS

ITEM #	MATERIAL	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analyte Test	Y/N	Requested Analyte: Filtered (Y/N)	Residual Chlorine (Y/N)	PH
				START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other					
1	YAWM-2	WT	Grab	1/10			5	X	X	X	X	X	X	X	X	X	X	X	PH = 5.62	
2	YAWM-4	WT	Grab	1/30			5	X	X	X	X	X	X	X	X	X	X	X	PH = 6.80	
3	YAWM-5	WT	Grab	1/15			5	X	X	X	X	X	X	X	X	X	X	X	PH = 5.32	
4	YAWM-1	WT	Grab	1/15			5	X	X	X	X	X	X	X	X	X	X	X	PH = 6.54	
5	PZ-35	WT	Grab	1/30			5	X	X	X	X	X	X	X	X	X	X	X	PH = 5.64	
6	EB1	WT	Grab	1/30			5	X	X	X	X	X	X	X	X	X	X	X	PH = 5.64	

REQUISITIONED BY / AFFILIATION: [Signature] DATE: 03/04/04 TIME: 1605
 ACCEPTED BY / AFFILIATION: [Signature] DATE: 03/04/04 TIME: 0920

SAMPLER NAME AND SIGNATURE:
 PRINT Name of SAMPLER: Peter Argyakos
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed: 03/04/04

TEMP In C: [blank]
 Received on Ice (Y/N): [blank]
 Custody Sealed (Y/N): [blank]
 Cooler (Y/N): [blank]
 Samples Intact (Y/N): [blank]



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

Section A	Required Client Information:	Required Project Information:	Section B	Section C
Inquiry: Georgia Power Address: 1070 Bridge Mill Ave Noon, GA 30114 Phone: (770)394-6326 Fax: Filled Date:	Report To: Becky Stever Copy To: Purchase Order #: Project Name: Yates AWWA Project #:	Attention: Company Name: Address: Pace Project Manager: kevin.herring@pacelabs.com Pace Profile #: 10940	Matrix Code (see valid codes to left) Sample Type (G-GRAB C-COMP) DATE TIME: 3/4/11 5:55 START TIME: 5:55 END TIME:	Invoice Information: Preservatives: H2SO4 HNO3 HCl NaOH Na2S2O3 Methanol Other Analyze Test: TDS Cl, F, SO4 App III/IV Metals RAD 0315/0320

#	ITEM	MATRIX CODE	SAMPLE TYPE	DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Y/N	Request Analytic Piled/TVN			Residual Chlorine (Y/N)								
										Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	TDS	Cl, F, SO4		App III/IV Metals	RAD 0315/0320										
13	Yates-AWWA PZ-37	WT		3/4/11	5:55			5	1																							
14	Yates-AWWA	WT																														
15	Yates-AWWA	WT																														
16		WT																														
17		WT																														
18		WT																														
19		WT																														
20		WT																														
21		WT																														
22																																
23																																
24																																

ADDITIONAL COMMENTS: NEIN WAIVER BY / AFFILIATION: DATE: 3/4/11 TIME: 11:45 AM ACCEPTED BY / AFFILIATION: DATE: 3/4/11 TIME: 11:45 AM	SAMPLER NAME AND SIGNATURE: PRINT Name of SAMPLER: Kate Rukhewicz SIGNATURE OF SAMPLER: [Signature] DATE signed: 3/4/11
TEMP In C: Received on ice (Y/N): Custody Sealed (Y/N): Cooler (Y/N): Samples intact (Y/N):	

April 01, 2021

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

RE: Project: YATES RADS
Pace Project No.: 92525214

Dear Ms. Petty:

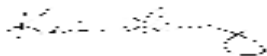
Enclosed are the analytical results for sample(s) received by the laboratory between March 02, 2021 and March 05, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, 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,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Samantha Thomas
Maribel Vital



REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: YATES RADS
Pace Project No.: 92525214

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 #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: YATES RADS

Pace Project No.: 92525214

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92525214001	YGWA-5I	Water	03/02/21 14:05	03/02/21 17:30
92525214002	YGWA-5D	Water	03/02/21 14:40	03/02/21 17:30
92525214003	DUP-1	Water	03/02/21 00:00	03/02/21 17:30
92525214005	YGWA-14S	Water	03/02/21 11:20	03/02/21 17:30
92525214006	YGWA-30I	Water	03/01/21 16:25	03/02/21 17:30
92525214007	FB-01	Water	03/02/21 11:30	03/02/21 17:30
92525214008	DUP-01	Water	03/02/21 00:00	03/02/21 17:30
92525214009	FB-01	Water	03/02/21 15:20	03/02/21 17:30
92525214011	YGWA-40	Water	03/04/21 10:10	03/05/21 09:20
92525214012	YGWA-17S	Water	03/03/21 12:20	03/05/21 09:20
92525214013	YGWA-18S	Water	03/03/21 13:50	03/05/21 09:20
92525214014	YGWA-18I	Water	03/03/21 15:00	03/05/21 09:20
92525214015	YGWA-39	Water	03/04/21 10:20	03/05/21 09:20
92525214016	YGWA-1D (030321)	Water	03/03/21 14:25	03/05/21 09:20
92525214017	YGWA-1I (030321)	Water	03/03/21 13:35	03/05/21 09:20
92525214018	YGWA-2I (030321)	Water	03/03/21 11:45	03/05/21 09:20
92525214019	YGWA-3I (030321)	Water	03/03/21 17:00	03/05/21 09:20
92525214020	YGWA-3D (030321)	Water	03/03/21 16:00	03/05/21 09:20
92525214021	EB-02 (03032021)	Water	03/03/21 17:15	03/05/21 09:20
92525214022	YGWA-4I	Water	03/03/21 10:35	03/05/21 09:20
92525214023	YGWA-20S	Water	03/03/21 09:40	03/05/21 09:20
92525214024	YGWA-21I	Water	03/03/21 09:35	03/05/21 09:20

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: YATES RADS
Pace Project No.: 92525214

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92525214001	YGWA-5I	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214002	YGWA-5D	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214003	DUP-1	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214005	YGWA-14S	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214006	YGWA-30I	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214007	FB-01	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214008	DUP-01	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214009	FB-01	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214011	YGWA-40	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214012	YGWA-17S	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214013	YGWA-18S	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214014	YGWA-18I	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214015	YGWA-39	EPA 9315	LAL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: YATES RADS
Pace Project No.: 92525214

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92525214016	YGWA-1D (030321)	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92525214017	YGWA-1I (030321)	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214018	YGWA-2I (030321)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92525214019	YGWA-3I (030321)	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92525214020	YGWA-3D (030321)	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214021	EB-02 (03032021)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92525214022	YGWA-4I	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92525214023	YGWA-20S	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214024	YGWA-21I	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES RADS
Pace Project No.: 92525214

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525214001	YGWA-5I					
EPA 9315	Radium-226	0.114 ± 0.190 (0.428) C:68% T:NA	pCi/L		03/22/21 08:37	
EPA 9320	Radium-228	0.465 ± 0.327 (0.633) C:78% T:92%	pCi/L		03/18/21 12:44	
Total Radium Calculation	Total Radium	0.579 ± 0.517 (1.06)	pCi/L		03/26/21 14:34	
92525214002	YGWA-5D					
EPA 9315	Radium-226	1.21 ± 0.344 (0.294) C:69% T:NA	pCi/L		03/22/21 08:37	
EPA 9320	Radium-228	0.457 ± 0.363 (0.727) C:76% T:95%	pCi/L		03/18/21 12:45	
Total Radium Calculation	Total Radium	1.67 ± 0.707 (1.02)	pCi/L		03/26/21 14:34	
92525214003	DUP-1					
EPA 9315	Radium-226	0.838 ± 0.268 (0.250) C:76% T:NA	pCi/L		03/22/21 08:37	
EPA 9320	Radium-228	0.784 ± 0.426 (0.783) C:78% T:87%	pCi/L		03/18/21 12:45	
Total Radium Calculation	Total Radium	1.62 ± 0.694 (1.03)	pCi/L		03/26/21 14:34	
92525214005	YGWA-14S					
EPA 9315	Radium-226	0.283 ± 0.267 (0.565) C:72% T:NA	pCi/L		03/22/21 08:41	
EPA 9320	Radium-228	0.427 ± 0.338 (0.673) C:76% T:92%	pCi/L		03/18/21 12:45	
Total Radium Calculation	Total Radium	0.710 ± 0.605 (1.24)	pCi/L		03/26/21 14:37	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES RADS
Pace Project No.: 92525214

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525214006	YGWA-30I					
EPA 9315	Radium-226	0.0562 ± 0.172 (0.408) C:79% T:NA	pCi/L		03/22/21 08:41	
EPA 9320	Radium-228	0.356 ± 0.278 (0.545) C:76% T:92%	pCi/L		03/18/21 12:46	
Total Radium Calculation	Total Radium	0.412 ± 0.450 (0.953)	pCi/L		03/26/21 14:37	
92525214007	FB-01					
EPA 9315	Radium-226	0.121 ± 0.131 (0.267) C:78% T:NA	pCi/L		03/22/21 08:41	
EPA 9320	Radium-228	0.512 ± 0.332 (0.620) C:73% T:88%	pCi/L		03/18/21 12:46	
Total Radium Calculation	Total Radium	0.633 ± 0.463 (0.887)	pCi/L		03/26/21 14:37	
92525214008	DUP-01					
EPA 9315	Radium-226	0.118 ± 0.120 (0.237) C:78% T:NA	pCi/L		03/22/21 08:48	
EPA 9320	Radium-228	0.809 ± 0.394 (0.692) C:79% T:90%	pCi/L		03/18/21 12:46	
Total Radium Calculation	Total Radium	0.927 ± 0.514 (0.929)	pCi/L		03/26/21 14:37	
92525214009	FB-01					
EPA 9315	Radium-226	-0.00506 ± 0.0722 (0.204) C:84% T:NA	pCi/L		03/22/21 08:48	
EPA 9320	Radium-228	0.675 ± 0.361 (0.652) C:76% T:96%	pCi/L		03/18/21 12:46	
Total Radium Calculation	Total Radium	0.675 ± 0.433 (0.856)	pCi/L		03/26/21 14:37	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES RADS
Pace Project No.: 92525214

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525214011	YGWA-40					
EPA 9315	Radium-226	0.268 ± 0.187 (0.319)	pCi/L		03/15/21 09:11	
EPA 9320	Radium-228	C:74% T:NA 0.550 ± 0.416 (0.827)	pCi/L		03/15/21 16:10	
Total Radium Calculation	Total Radium	C:81% T:90% 0.818 ± 0.603 (1.15)	pCi/L		03/22/21 10:37	
92525214012	YGWA-17S					
EPA 9315	Radium-226	0.192 ± 0.156 (0.276)	pCi/L		03/15/21 09:11	
EPA 9320	Radium-228	C:74% T:NA 0.398 ± 0.319 (0.627)	pCi/L		03/15/21 16:10	
Total Radium Calculation	Total Radium	C:80% T:89% 0.590 ± 0.475 (0.903)	pCi/L		03/22/21 10:37	
92525214013	YGWA-18S					
EPA 9315	Radium-226	0.141 ± 0.166 (0.344)	pCi/L		03/15/21 09:16	
EPA 9320	Radium-228	C:59% T:NA 0.211 ± 0.322 (0.695)	pCi/L		03/15/21 16:10	
Total Radium Calculation	Total Radium	C:73% T:89% 0.352 ± 0.488 (1.04)	pCi/L		03/22/21 10:37	
92525214014	YGWA-18I					
EPA 9315	Radium-226	0.381 ± 0.207 (0.351)	pCi/L		03/15/21 09:16	
EPA 9320	Radium-228	C:65% T:NA 0.184 ± 0.282 (0.608)	pCi/L		03/15/21 16:10	
Total Radium Calculation	Total Radium	C:76% T:92% 0.565 ± 0.489 (0.959)	pCi/L		03/22/21 10:37	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES RADS
Pace Project No.: 92525214

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525214015	YGWA-39					
EPA 9315	Radium-226	0.636 ± 0.257 (0.332)	pCi/L		03/15/21 09:11	
EPA 9320	Radium-228	C:86% T:NA -0.00538 ± 0.293 (0.687)	pCi/L		03/15/21 16:10	
Total Radium Calculation	Total Radium	C:78% T:93% 0.636 ± 0.550 (1.02)	pCi/L		03/22/21 10:37	
92525214016	YGWA-1D (030321)					
EPA 9315	Radium-226	0.265 ± 0.193 (0.356)	pCi/L		03/15/21 09:13	
EPA 9320	Radium-228	C:78% T:NA 0.227 ± 0.376 (0.819)	pCi/L		03/15/21 16:10	
Total Radium Calculation	Total Radium	C:76% T:90% 0.492 ± 0.569 (1.18)	pCi/L		03/22/21 10:37	
92525214017	YGWA-1I (030321)					
EPA 9315	Radium-226	0.0715 ± 0.137 (0.315)	pCi/L		03/15/21 09:13	
EPA 9320	Radium-228	C:73% T:NA 0.0339 ± 0.361 (0.831)	pCi/L		03/15/21 16:10	
Total Radium Calculation	Total Radium	C:76% T:84% 0.105 ± 0.498 (1.15)	pCi/L		03/26/21 13:42	
92525214018	YGWA-2I (030321)					
EPA 9315	Radium-226	0.236 ± 0.183 (0.351)	pCi/L		03/15/21 09:13	
EPA 9320	Radium-228	C:83% T:NA 0.223 ± 0.344 (0.744)	pCi/L		03/15/21 16:10	
Total Radium Calculation	Total Radium	C:72% T:93% 0.459 ± 0.527 (1.10)	pCi/L		03/26/21 13:42	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES RADS
Pace Project No.: 92525214

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525214019	YGWA-3I (030321)					
EPA 9315	Radium-226	1.19 ± 0.315 (0.200) C:81% T:NA	pCi/L		03/22/21 09:34	
EPA 9320	Radium-228	0.837 ± 0.390 (0.655) C:82% T:90%	pCi/L		03/19/21 15:13	
Total Radium Calculation	Total Radium	2.03 ± 0.705 (0.855)	pCi/L		03/26/21 13:42	
92525214020	YGWA-3D (030321)					
EPA 9315	Radium-226	1.88 ± 0.434 (0.259) C:80% T:NA	pCi/L		03/22/21 08:28	
EPA 9320	Radium-228	1.70 ± 0.544 (0.701) C:74% T:90%	pCi/L		03/19/21 15:13	
Total Radium Calculation	Total Radium	3.58 ± 0.978 (0.960)	pCi/L		03/26/21 13:42	
92525214021	EB-02 (03032021)					
EPA 9315	Radium-226	0.0547 ± 0.0827 (0.178) C:78% T:NA	pCi/L		03/22/21 08:29	
EPA 9320	Radium-228	0.157 ± 0.333 (0.736) C:76% T:95%	pCi/L		03/19/21 15:13	
Total Radium Calculation	Total Radium	0.212 ± 0.416 (0.914)	pCi/L		03/26/21 13:42	
92525214022	YGWA-4I					
EPA 9315	Radium-226	0.783 ± 0.243 (0.164) C:76% T:NA	pCi/L		03/22/21 08:30	
EPA 9320	Radium-228	0.217 ± 0.319 (0.687) C:79% T:90%	pCi/L		03/19/21 15:13	
Total Radium Calculation	Total Radium	1.000 ± 0.562 (0.851)	pCi/L		03/26/21 13:42	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES RADS

Pace Project No.: 92525214

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525214023	YGWA-20S					
EPA 9315	Radium-226	0.133 ± 0.114 (0.212) C:89% T:NA	pCi/L		03/22/21 08:30	
EPA 9320	Radium-228	-0.163 ± 0.291 (0.711) C:79% T:96%	pCi/L		03/19/21 15:13	
Total Radium Calculation	Total Radium	0.133 ± 0.405 (0.923)	pCi/L		03/26/21 13:42	
92525214024	YGWA-211					
EPA 9315	Radium-226	0.861 ± 0.270 (0.318) C:89% T:NA	pCi/L		03/22/21 08:31	
EPA 9320	Radium-228	0.338 ± 0.394 (0.829) C:72% T:86%	pCi/L		03/19/21 15:15	
Total Radium Calculation	Total Radium	1.20 ± 0.664 (1.15)	pCi/L		03/26/21 13:56	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

Sample: YGWA-5I **Lab ID: 92525214001** Collected: 03/02/21 14:05 Received: 03/02/21 17:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.114 ± 0.190 (0.428) C:68% T:NA	pCi/L	03/22/21 08:37	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.465 ± 0.327 (0.633) C:78% T:92%	pCi/L	03/18/21 12:44	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.579 ± 0.517 (1.06)	pCi/L	03/26/21 14:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

Sample: YGWA-5D **Lab ID: 92525214002** Collected: 03/02/21 14:40 Received: 03/02/21 17:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	1.21 ± 0.344 (0.294) C:69% T:NA	pCi/L	03/22/21 08:37	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.457 ± 0.363 (0.727) C:76% T:95%	pCi/L	03/18/21 12:45	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.67 ± 0.707 (1.02)	pCi/L	03/26/21 14:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

Sample: DUP-1 **Lab ID: 92525214003** Collected: 03/02/21 00:00 Received: 03/02/21 17:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.838 ± 0.268 (0.250) C:76% T:NA	pCi/L	03/22/21 08:37	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.784 ± 0.426 (0.783) C:78% T:87%	pCi/L	03/18/21 12:45	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.62 ± 0.694 (1.03)	pCi/L	03/26/21 14:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: YGWA-14S Lab ID: 92525214005 Collected: 03/02/21 11:20 Received: 03/02/21 17:30 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.283 ± 0.267 (0.565) C:72% T:NA	pCi/L	03/22/21 08:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.427 ± 0.338 (0.673) C:76% T:92%	pCi/L	03/18/21 12:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.710 ± 0.605 (1.24)	pCi/L	03/26/21 14:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

Sample: YGWA-30I **Lab ID: 92525214006** Collected: 03/01/21 16:25 Received: 03/02/21 17:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0562 ± 0.172 (0.408) C:79% T:NA	pCi/L	03/22/21 08:41	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.356 ± 0.278 (0.545) C:76% T:92%	pCi/L	03/18/21 12:46	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.412 ± 0.450 (0.953)	pCi/L	03/26/21 14:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

Sample: FB-01 **Lab ID: 92525214007** Collected: 03/02/21 11:30 Received: 03/02/21 17:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.121 ± 0.131 (0.267) C:78% T:NA	pCi/L	03/22/21 08:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.512 ± 0.332 (0.620) C:73% T:88%	pCi/L	03/18/21 12:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.633 ± 0.463 (0.887)	pCi/L	03/26/21 14:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

Sample: DUP-01 **Lab ID: 92525214008** Collected: 03/02/21 00:00 Received: 03/02/21 17:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.118 ± 0.120 (0.237) C:78% T:NA	pCi/L	03/22/21 08:48	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.809 ± 0.394 (0.692) C:79% T:90%	pCi/L	03/18/21 12:46	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.927 ± 0.514 (0.929)	pCi/L	03/26/21 14:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

Sample: FB-01 **Lab ID: 92525214009** Collected: 03/02/21 15:20 Received: 03/02/21 17:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.00506 ± 0.0722 (0.204) C:84% T:NA	pCi/L	03/22/21 08:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.675 ± 0.361 (0.652) C:76% T:96%	pCi/L	03/18/21 12:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.675 ± 0.433 (0.856)	pCi/L	03/26/21 14:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

Sample: YGWA-40 **Lab ID: 92525214011** Collected: 03/04/21 10:10 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.268 ± 0.187 (0.319) C:74% T:NA	pCi/L	03/15/21 09:11	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.550 ± 0.416 (0.827) C:81% T:90%	pCi/L	03/15/21 16:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.818 ± 0.603 (1.15)	pCi/L	03/22/21 10:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

Sample: YGWA-17S **Lab ID: 92525214012** Collected: 03/03/21 12:20 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.192 ± 0.156 (0.276) C:74% T:NA	pCi/L	03/15/21 09:11	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.398 ± 0.319 (0.627) C:80% T:89%	pCi/L	03/15/21 16:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.590 ± 0.475 (0.903)	pCi/L	03/22/21 10:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

Sample: YGWA-18S **Lab ID: 92525214013** Collected: 03/03/21 13:50 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.141 ± 0.166 (0.344) C:59% T:NA	pCi/L	03/15/21 09:16	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.211 ± 0.322 (0.695) C:73% T:89%	pCi/L	03/15/21 16:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.352 ± 0.488 (1.04)	pCi/L	03/22/21 10:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

Sample: YGWA-181 **Lab ID: 92525214014** Collected: 03/03/21 15:00 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.381 ± 0.207 (0.351) C:65% T:NA	pCi/L	03/15/21 09:16	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.184 ± 0.282 (0.608) C:76% T:92%	pCi/L	03/15/21 16:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.565 ± 0.489 (0.959)	pCi/L	03/22/21 10:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

Sample: YGWA-39 **Lab ID: 92525214015** Collected: 03/04/21 10:20 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.636 ± 0.257 (0.332) C:86% T:NA	pCi/L	03/15/21 09:11	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	-0.00538 ± 0.293 (0.687) C:78% T:93%	pCi/L	03/15/21 16:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.636 ± 0.550 (1.02)	pCi/L	03/22/21 10:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

Sample: YGWA-1D (030321) **Lab ID: 92525214016** Collected: 03/03/21 14:25 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.265 ± 0.193 (0.356) C:78% T:NA	pCi/L	03/15/21 09:13	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.227 ± 0.376 (0.819) C:76% T:90%	pCi/L	03/15/21 16:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.492 ± 0.569 (1.18)	pCi/L	03/22/21 10:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

Sample: YGWA-1I (030321) **Lab ID: 92525214017** Collected: 03/03/21 13:35 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0715 ± 0.137 (0.315) C:73% T:NA	pCi/L	03/15/21 09:13	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.0339 ± 0.361 (0.831) C:76% T:84%	pCi/L	03/15/21 16:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.105 ± 0.498 (1.15)	pCi/L	03/26/21 13:42	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

Sample: YGWA-2I (030321) **Lab ID: 92525214018** Collected: 03/03/21 11:45 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.236 ± 0.183 (0.351) C:83% T:NA	pCi/L	03/15/21 09:13	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.223 ± 0.344 (0.744) C:72% T:93%	pCi/L	03/15/21 16:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.459 ± 0.527 (1.10)	pCi/L	03/26/21 13:42	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

Sample: YGWA-3I (030321) **Lab ID: 92525214019** Collected: 03/03/21 17:00 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	1.19 ± 0.315 (0.200) C:81% T:NA	pCi/L	03/22/21 09:34	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.837 ± 0.390 (0.655) C:82% T:90%	pCi/L	03/19/21 15:13	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	2.03 ± 0.705 (0.855)	pCi/L	03/26/21 13:42	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

Sample: YGWA-3D (030321) **Lab ID: 92525214020** Collected: 03/03/21 16:00 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	1.88 ± 0.434 (0.259) C:80% T:NA	pCi/L	03/22/21 08:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.70 ± 0.544 (0.701) C:74% T:90%	pCi/L	03/19/21 15:13	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	3.58 ± 0.978 (0.960)	pCi/L	03/26/21 13:42	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

Sample: EB-02 (03032021) **Lab ID: 92525214021** Collected: 03/03/21 17:15 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0547 ± 0.0827 (0.178) C:78% T:NA	pCi/L	03/22/21 08:29	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.157 ± 0.333 (0.736) C:76% T:95%	pCi/L	03/19/21 15:13	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.212 ± 0.416 (0.914)	pCi/L	03/26/21 13:42	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

Sample: YGWA-4I **Lab ID: 92525214022** Collected: 03/03/21 10:35 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.783 ± 0.243 (0.164) C:76% T:NA	pCi/L	03/22/21 08:30	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.217 ± 0.319 (0.687) C:79% T:90%	pCi/L	03/19/21 15:13	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.000 ± 0.562 (0.851)	pCi/L	03/26/21 13:42	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: YGWA-20S Lab ID: 92525214023 Collected: 03/03/21 09:40 Received: 03/05/21 09:20 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.133 ± 0.114 (0.212) C:89% T:NA	pCi/L	03/22/21 08:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.163 ± 0.291 (0.711) C:79% T:96%	pCi/L	03/19/21 15:13	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.133 ± 0.405 (0.923)	pCi/L	03/26/21 13:42	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

Sample: YGWA-211 **Lab ID: 92525214024** Collected: 03/03/21 09:35 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.861 ± 0.270 (0.318) C:89% T:NA	pCi/L	03/22/21 08:31	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.338 ± 0.394 (0.829) C:72% T:86%	pCi/L	03/19/21 15:15	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.20 ± 0.664 (1.15)	pCi/L	03/26/21 13:56	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

QC Batch: 437643

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92525214001, 92525214002, 92525214003, 92525214005, 92525214006, 92525214007, 92525214008, 92525214009

METHOD BLANK: 2112540

Matrix: Water

Associated Lab Samples: 92525214001, 92525214002, 92525214003, 92525214005, 92525214006, 92525214007, 92525214008, 92525214009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.387 ± 0.316 (0.633) C:83% T:90%	pCi/L	03/18/21 12:44	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

QC Batch: 437642

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92525214019, 92525214020, 92525214021, 92525214022, 92525214023, 92525214024

METHOD BLANK: 2112539

Matrix: Water

Associated Lab Samples: 92525214019, 92525214020, 92525214021, 92525214022, 92525214023, 92525214024

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.219 ± 0.271 (0.570) C:75% T:92%	pCi/L	03/19/21 15:12	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

QC Batch: 437601

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92525214019, 92525214020, 92525214021, 92525214022, 92525214023, 92525214024

METHOD BLANK: 2112394

Matrix: Water

Associated Lab Samples: 92525214019, 92525214020, 92525214021, 92525214022, 92525214023, 92525214024

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0425 ± 0.110 (0.264) C:81% T:NA	pCi/L	03/22/21 08:26	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

QC Batch:	437599	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92525214011, 92525214012, 92525214013, 92525214014, 92525214015, 92525214016, 92525214017, 92525214018

METHOD BLANK: 2112389 Matrix: Water

Associated Lab Samples: 92525214011, 92525214012, 92525214013, 92525214014, 92525214015, 92525214016, 92525214017, 92525214018

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.00470 ± 0.0712 (0.214) C:85% T:NA	pCi/L	03/15/21 09:18	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

QC Batch: 437641

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92525214011, 92525214012, 92525214013, 92525214014, 92525214015, 92525214016, 92525214017, 92525214018

METHOD BLANK: 2112538

Matrix: Water

Associated Lab Samples: 92525214011, 92525214012, 92525214013, 92525214014, 92525214015, 92525214016, 92525214017, 92525214018

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.312 ± 0.330 (0.686) C:82% T:90%	pCi/L	03/15/21 16:07	

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.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525214

QC Batch: 437602

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92525214001, 92525214002, 92525214003, 92525214005, 92525214006, 92525214007, 92525214008, 92525214009

METHOD BLANK: 2112395

Matrix: Water

Associated Lab Samples: 92525214001, 92525214002, 92525214003, 92525214005, 92525214006, 92525214007, 92525214008, 92525214009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0514 ± 0.104 (0.242) C:82% T:NA	pCi/L	03/22/21 08:37	

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: YATES RADS

Pace Project No.: 92525214

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.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES RADS
Pace Project No.: 92525214

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525214001	YGWA-5I	EPA 9315	437602		
92525214002	YGWA-5D	EPA 9315	437602		
92525214003	DUP-1	EPA 9315	437602		
92525214005	YGWA-14S	EPA 9315	437602		
92525214006	YGWA-30I	EPA 9315	437602		
92525214007	FB-01	EPA 9315	437602		
92525214008	DUP-01	EPA 9315	437602		
92525214009	FB-01	EPA 9315	437602		
92525214011	YGWA-40	EPA 9315	437599		
92525214012	YGWA-17S	EPA 9315	437599		
92525214013	YGWA-18S	EPA 9315	437599		
92525214014	YGWA-18I	EPA 9315	437599		
92525214015	YGWA-39	EPA 9315	437599		
92525214016	YGWA-1D (030321)	EPA 9315	437599		
92525214017	YGWA-1I (030321)	EPA 9315	437599		
92525214018	YGWA-2I (030321)	EPA 9315	437599		
92525214019	YGWA-3I (030321)	EPA 9315	437601		
92525214020	YGWA-3D (030321)	EPA 9315	437601		
92525214021	EB-02 (03032021)	EPA 9315	437601		
92525214022	YGWA-4I	EPA 9315	437601		
92525214023	YGWA-20S	EPA 9315	437601		
92525214024	YGWA-21I	EPA 9315	437601		
92525214001	YGWA-5I	EPA 9320	437643		
92525214002	YGWA-5D	EPA 9320	437643		
92525214003	DUP-1	EPA 9320	437643		
92525214005	YGWA-14S	EPA 9320	437643		
92525214006	YGWA-30I	EPA 9320	437643		
92525214007	FB-01	EPA 9320	437643		
92525214008	DUP-01	EPA 9320	437643		
92525214009	FB-01	EPA 9320	437643		
92525214011	YGWA-40	EPA 9320	437641		
92525214012	YGWA-17S	EPA 9320	437641		
92525214013	YGWA-18S	EPA 9320	437641		
92525214014	YGWA-18I	EPA 9320	437641		
92525214015	YGWA-39	EPA 9320	437641		
92525214016	YGWA-1D (030321)	EPA 9320	437641		
92525214017	YGWA-1I (030321)	EPA 9320	437641		
92525214018	YGWA-2I (030321)	EPA 9320	437641		
92525214019	YGWA-3I (030321)	EPA 9320	437642		
92525214020	YGWA-3D (030321)	EPA 9320	437642		
92525214021	EB-02 (03032021)	EPA 9320	437642		
92525214022	YGWA-4I	EPA 9320	437642		
92525214023	YGWA-20S	EPA 9320	437642		
92525214024	YGWA-21I	EPA 9320	437642		
92525214001	YGWA-5I	Total Radium Calculation	440666		
92525214002	YGWA-5D	Total Radium Calculation	440666		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES RADS
Pace Project No.: 92525214

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525214003	DUP-1	Total Radium Calculation	440666		
92525214005	YGWA-14S	Total Radium Calculation	440668		
92525214006	YGWA-30I	Total Radium Calculation	440668		
92525214007	FB-01	Total Radium Calculation	440668		
92525214008	DUP-01	Total Radium Calculation	440668		
92525214009	FB-01	Total Radium Calculation	440668		
92525214011	YGWA-40	Total Radium Calculation	439752		
92525214012	YGWA-17S	Total Radium Calculation	439752		
92525214013	YGWA-18S	Total Radium Calculation	439752		
92525214014	YGWA-18I	Total Radium Calculation	439752		
92525214015	YGWA-39	Total Radium Calculation	439752		
92525214016	YGWA-1D (030321)	Total Radium Calculation	439752		
92525214017	YGWA-1I (030321)	Total Radium Calculation	440644		
92525214018	YGWA-2I (030321)	Total Radium Calculation	440644		
92525214019	YGWA-3I (030321)	Total Radium Calculation	440644		
92525214020	YGWA-3D (030321)	Total Radium Calculation	440644		
92525214021	EB-02 (03032021)	Total Radium Calculation	440644		
92525214022	YGWA-4I	Total Radium Calculation	440644		
92525214023	YGWA-20S	Total Radium Calculation	440644		
92525214024	YGWA-21I	Total Radium Calculation	440647		

REPORT OF LABORATORY ANALYSIS

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



Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: Georgia power

Project #: **WO#: 92525214**

Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____



Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: MT 3/3/20

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 230 Type of Ice: Wet Blue None

Cooler Temp: 4.0 Correction Factor: Add/Subtract (°C) ±0

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.0

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.	
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Includes Date/Time/ID/Analysis Matrix: <u>WT</u>			
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.	
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY _____ Field Data Required? Yes No

Lot ID of split containers: _____

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Client Information:	Section B	Section C
Company: Georgia Power	Report To: Becky Steever	Address:
Address: 1070 Bridger Mill Ave	Copy To:	Company Name:
City: Stone Mountain, GA 30114		Address:
Phone: (770) 394-6326	Purchase Order #:	Peer Quote:
Fac:	Yates AMA	Peer Project Manager:
		Peer Profile #:
		Peer Profile #:

SITE	SAMPLE ID	MATRIX CODE	SAMPLE TYPE	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES							ANALYSES TEST				RESIDUAL CHLORINE (Y/N)	
				START DATE	END DATE			UNPRESERVED	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	TDS	Cl, F, SO4	APP I/IV METALS		RAD 9316/9320
1	Y6WA-SI		G-GRAB	3/12/14	1405	8.5	1									X	X	X	X	
2	Y6WA-SI		G-GRAB	3/12/14	1440	8.5	1									X	X	X	X	
3	Y6WA-SI		G-GRAB	3/12/14												X	X	X	X	
4	Y6WA-SI		G-GRAB	3/12/14												X	X	X	X	
5	Y6WA-SI		G-GRAB	3/12/14												X	X	X	X	

ADDITIONAL COMMENTS:	REMOVED BY:	DATE:	TIME:	ACCEPTED BY:	DATE:	TIME:	TEMP IN C:	RECEIVED ON ICE:	CUSTODY SEALED:	COOLER:	SAMPLES INTACT:
	PEPPERMAN	3-22-14	1730	VAN DUSEN	3-22-14	1400	4.0	Y	N	Y	

Sampler Name: [Signature]

PRINT Name of SAMPLER: Peter Hignett

SIGNATURE of SAMPLER: [Signature]

DATE signed: 03/20/2014



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

tion A

Client Information:

Company: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: GA 30114
 Phone: (770) 384-6326
 Fax: _____

Project Information:

Report To: Becky Stever
 Copy To: _____
 Project Name: Yates Reservoir
 Project #: _____

Invoice Information:

Attention: _____
 Company Name: _____
 Address: _____
 Pace Project Manager: Kevin Jennings@paceanalytical.com
 Pace Profile #: 10940

Page: 3 of 4
 CDE 1-06

Regulatory Agency: _____
 State/Location: GA

SAMPLE ID
 One Character per box.
 (A-Z, 0-9), .

MATRIX CODES:
 Drinking Water: DW
 Wastewater: WW
 Process Water: PW
 Sewage: S
 Stormwater: SW
 Air: A
 Soil: SO
 Sludge: SL
 Other: O

NO.	SAMPLER	SAMPLER ID	WT	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Required Analyte Preserved (Y/N)	Residual Chlorine (Y/N)
				START DATE TIME	END DATE TIME						
1	YQWA-145		WT								
2	YQWA-145		WT								
3	YQWA-145		WT								
4	YQWA-145		WT								
5	YQWA-145		WT								
6	YQWA-145		WT								
7	YQWA-201		WT								
8	YQWA-201		WT								
9	YQWA-201		WT								
10	YQWA-201		WT								
11	YQWA-201		WT								
12	YQWA-201		WT								
13	YQWA-201		WT								
14	YQWA-201		WT								
15	YQWA-201		WT								
16	YQWA-201		WT								
17	YQWA-201		WT								
18	YQWA-201		WT								
19	YQWA-201		WT								
20	YQWA-201		WT								
21	YQWA-201		WT								
22	YQWA-201		WT								
23	YQWA-201		WT								
24	YQWA-201		WT								
25	YQWA-201		WT								
26	YQWA-201		WT								
27	YQWA-201		WT								
28	YQWA-201		WT								
29	YQWA-201		WT								
30	YQWA-201		WT								
31	YQWA-201		WT								
32	YQWA-201		WT								
33	YQWA-201		WT								
34	YQWA-201		WT								
35	YQWA-201		WT								
36	YQWA-201		WT								
37	YQWA-201		WT								
38	YQWA-201		WT								
39	YQWA-201		WT								
40	YQWA-201		WT								
41	YQWA-201		WT								
42	YQWA-201		WT								
43	YQWA-201		WT								
44	YQWA-201		WT								
45	YQWA-201		WT								
46	YQWA-201		WT								
47	YQWA-201		WT								
48	YQWA-201		WT								
49	YQWA-201		WT								
50	YQWA-201		WT								

REQUESTED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITION
<i>[Signature]</i>	3/22	17:30	<i>[Signature]</i>	3/24	17:30	Y

SAMPLER NAME AND SERIAL NUMBER: _____

PRINT Name of SAMPLER: _____

SIGNATURE of SAMPLER: _____

DATE Signed: 3/22/2021

TEMP In C: _____

Received on Ice (Y/N): _____

Custody Sealed (Y/N): _____

Cooler (Y/N): _____

Samples Intact (Y/N): _____



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

n/a

Section B
Required Project Information:

Client Information:
Name: Georgia Power
Address: 1070 Bridge Mill Ave
City: GA 30114
Phone: (770)394-6526
Fax: [blank]

Section C
Invoice Information:

Report To: Becky Steever
Copy To: [blank]
Purchase Order #: [blank]
Project Name: Yates Gypsum
Project #: [blank]

Attention: [blank]
Company Name: [blank]
Address: [blank]
Phone Order: [blank]
Pace Project Manager: Kevin.Herring@pacelabs.com
Pace Profile #: 10840

Regulatory Agency: [blank]
State / Location: GA

Page: 4
of 4
GOC 1 (Updraft)

SAMPLE ID
One Character per box.
(A-Z, 0-9 / -)

MATRIX CODE (see valid codes to left)

MATRIX	CODED	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	DATE	TIME
Drinking Water	DWID						
Wastewater	WWID						
Process Water	PWID						
Product	PI						
Secondary	SC						
Oil	OC						
WPC	WPC						
MIL	ML						
Other	OT						
Tissue	TS						

FB-01

MATRIX	CODED	MATRIX CODE	SAMPLE TYPE	DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test	Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	

62525214

94542

ADDITIONAL COMMENTS: RELINQUISHED BY / AFFILIATION: DATE: TIME: ACCEPTED BY / AFFILIATION: DATE: TIME: SAMPLE CONDITIONS:

RELINQUISHED BY / AFFILIATION: [Signature]
DATE: 3/22/12 TIME: 1520
ACCEPTED BY / AFFILIATION: [Signature]
DATE: 3/22/12 TIME: 1730

SAMPLER NAME AND SIGNATURE: [Signature]
PRINT Name of SAMPLER: Sally Summers
SIGNATURE of SAMPLER: [Signature]
DATE Signed: 3/22/12

TEMP in C: 4.0
Received on Ice: Y
Custody Sealed: Y
Cooler: N
Samples Intact: Y



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Client Information:

Company: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: Marietta, GA 30014

Section B

Required Project Information:

Report To: Beverly Steever
 Copy To:
 Project Name: Yates RS

Section C

Invoice Information:

Attention: Company Name
 Address:
 Project Manager: Kevin.Herring@pacstates.com
 Pace Profile #: 10940

Page: 1 of 5

Regulatory Agency: GDE

State / Location: GA

SAMPLE ID
 One Character per box.
 (A-Z, 0-9 / -)

MATRIX CODE (see valid codes to left)
 SAMPLE TYPE (G=GRAB C=COMP)

ITEM #	DESCRIPTION	MATRIX CODE	SAMPLE TYPE	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analyse Test	Residual Chlorine (Y/N)
				START DATE	END DATE					
1	YCWMA-10	WT		3/4/21	10:16		1	H2SO4 HNO3 HCl NaOH Na2S2O3 Methanol Other	TDS Cl, F, SO4 App III/IV Metals RAD 9316/9320	
2	YCWMA-10	WT								
3	YCWMA-10	WT								
4	YCWMA-10	WT								
5	YCWMA-10	WT								
6	YCWMA-10	WT								
7										
8										
9										
10										
11										
12										

ADDITIONAL COMMENTS

REQUISITIONED BY / AFFILIATION: *[Signature]*

DATE: 3/4/21 TIME: 10:45

ACCEPTED BY / AFFILIATION: *[Signature]*

DATE: 3/4/21 TIME: 10:45

SAMPLE CONDITIONS

SAMPLER NAME AND BRAND:

PRINT Name of SAMPLER: KATE BORKENICA
 SIGNATURE of SAMPLER: *[Signature]*

DATE Signed: 3/4/21

TEMP in C
 Received on Ice? (Y/N)
 Custody Sealed? (Y/N)
 Cooler? (Y/N)
 Samples Intact? (Y/N)

PH: 5.23

011



Section A
 Requested Client Information:

Company: Coastal Power
 Address: 1070 Bridge Mill Ave
 Alton, GA 30114
 Phone: (770) 394-6526
 Fax: _____
 Project Name: Yates ISB
 Project #: _____

Section B
 Required Project Information:

Report To: Becky Steever
 Copy To: _____
 Purchase Order #: _____
 Project Name: Yates ISB
 Project #: _____

Section C
 Invoice Information:

Company Name: _____
 Address: _____
 PACE Quote #: _____
 PACE Project Manager: Kevin Herring
 Email: kherring@pace-lab.com
 PACE Profile #: 10840

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

SAMPLE ID
 One Character per box.
 (A-Z, 0-9, ., -)
 Sample IDs must be unique

MATRIX CODE (see valid codes to left)
 SAMPLE TYPE (G=GRAB C=COMP)

DATE TIME DATE TIME

START END

SAMPLE TEMP AT COLLECTION
 # OF CONTAINERS
 Unpreserved
 H2SO4
 HNO3
 HCl
 NaOH
 Na2S2O3
 Methanol
 Other

Analyses Test Y/N
 TDS
 Cl, F, SO4
 App I/III/V Metals
 RAD 9316/9320

Required Analysis: Filtered (Y/N)
 Residual Chlorine (Y/N)

Ph: 554

ITEM #	MATRIX CODE	SAMPLE TYPE	DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test	TDS	Cl, F, SO4	App I/III/V Metals	RAD 9316/9320	Required Analysis: Filtered (Y/N)	Residual Chlorine (Y/N)
1	YGWA-30	WT	3/4	10:00			5	5									X	X	X	X			
2	YGWA-07	WT															X	X	X	X			
3	YGWA-11	WT															X	X	X	X			
4	YGWA-07	WT															X	X	X	X			
5	YGWA-07	WT															X	X	X	X			
6	YGWA-08	WT															X	X	X	X			
7		WT															X	X	X	X			
8		WT															X	X	X	X			
9		WT															X	X	X	X			
10		WT															X	X	X	X			
11		WT															X	X	X	X			
12		WT															X	X	X	X			

ADDITIONAL COMMENTS
 REQUISITIONED BY / ACRYLATION
 Jake Swanson

DATE TIME
 3/14/12 1200

ACCEPTED BY / ACRYLATION
 Jake Swanson

DATE TIME
 3/15/12 0920

SAMPLE CONDITIONS
 Received on Ice (Y/N)
 Custody Sealed
 Cooler (Y/N)
 Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Jake Swanson
 SIGNATURE OF SAMPLER: [Signature]

DATE Signed: 3/14/12

TEMP In C

ction A

Client Information:

Company: Georgia Power
Address: 1070 Bridge Hill Ave
City: Atlanta, GA 30314
Phone: (770) 304-6326
Fax: [blank]Requested Date: [blank]

Section B
Requested Project Information:

Report To: Becky Steever
Copy To: [blank]
Purchase Order #: Values AP-2
Project Name: Values AP-2
Project #:

Section C
Invoice Information:

Company Name: [blank]
Address: [blank]
Phone: [blank]
Fax: [blank]
Project Manager: Kevin.Herning@pacelab.com
Profile #: 10840

Page: 4 of 5
Doc ID 06

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

SAMPLE ID
One Character per box.
(A-Z, 0-9, -)

MATRIX CODE (see valid codes to left)
SAMPLE TYPE (G=GRAB C=COMP)

COLLECTED: START TIME, END TIME, DATE, TIME
SAMPLER NAME AND SERIAL NUMBER: YGMVA-10 (054921)

PRESERVATIVES: Unpreserved, H2SO4, HNO3, HCl, NaOH, Na2S2O3, Methanol, Other

ANALYSES TEST: TDS, Cl, F, SO4, App III/IV Metals, RAD 9315/9320

Residual Chlorine (Y/N)

PH 7.25, PH 5.34, PH 7.92, PH 8.23, PH 8.35

Table with columns for ITEM #, SAMP, DATE, TIME, MATRIX CODE, SAMPLE TYPE, COLLECTED, END, SAMPLE TEMP AT COLLECTION, # OF CONTAINERS, PRESERVATIVES, ANALYSES TEST, Y/N, Residual Chlorine, PH, and SAMPLER CONDITIONS.

REQUESTED BY: [Signature]

ACCEPTED BY: [Signature]

SAMPLER NAME AND SERIAL NUMBER: [Handwritten]

DATE: 3/7/15

TEMP in C, Received on Ice (Y/N), Custody Sealed (Y/N), Cooler (Y/N), Samples Intact (Y/N)



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Client Information:

Company: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: Atlanta, GA 30314

Section B
 Required Project Information:

Report To: Becky Steeper
 Copy To:
 Purchase Order #:
 Project Name: Yates AWA
 Project #:

Section C
 Invoice Information:

Attention:
 Company Name:
 Address:
 Pace Order #:
 Pace Project Manager: Kevin Henning@pacecds.com
 Pace Profile #: 10840

Page: 5 of 5

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analytes Test	Y/N	Requested Analytes Preserved (Y/N)	Residual Chlorine (Y/N)
			START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				
1	WT																
2	WT																
3	WT																
4	YGWA-41																
5	YGWA-51																
6	YGWA-5D																
7	YGWA-419																
8	YGWA-4BS																
9	YGWA-19T																
10	YGWA-20S																
11	YGWA-211																
12	TGWC-21S																

RECEIVED BY / INITIALS	DATE	TIME	ACCEPTED BY / INITIALS	DATE	TIME	SAMPLE CONDITIONS
<i>[Signature]</i>	3/11/04	1605	<i>[Signature]</i>	3/17/04	0900	PH: 5.83 PH: 5.80

MATRIX
 Drinking Water DWD
 WWT
 Wastewater WWWD
 Processed PD
 Suspended SLD
 Oil OLC
 WPOD WPO
 AAO AAO
 Other OTT
 Other TS

Matrix Legend:
 DWD Drinking Water
 WWT Wastewater
 WWWD Wastewater
 PD Processed
 SLD Suspended
 OLC Oil
 WPOD Wastewater
 AAO AAO
 OTT Other
 TS Other

ADDITIONAL COMMENTS:

RECEIVED BY / INITIALS: *[Signature]*

DATE: 3/11/04 **TIME:** 1605

ACCEPTED BY / INITIALS: *[Signature]*

DATE: 3/17/04 **TIME:** 0900

SAMPLE CONDITIONS: PH: 5.83, PH: 5.80

SAMPLER NAME AND SIGNATURE: *[Signature]*

PRINT Name of SAMPLER: *[Signature]*

SIGNATURE of SAMPLER: *[Signature]*

DATE Signed: 03/04/2004

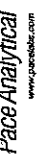
TEMP In C:

Received on Ice (Y/N):

Custody Sealed Cooler (Y/N):

Samples Intact (Y/N):

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: LAL
Date: 3/9/2021
Worklist: 59152
Matrix: DW

Method Blank Assessment	
MB Sample ID	2112389
MB Concentration:	-0.005
MB Counting Uncertainty:	0.071
MB MDC:	0.214
MB Numerical Performance Indicator:	-0.13
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	
	LCSD59152	LCSD59152
Count Date:	3/15/2021	3/15/2021
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.039	24.039
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.504	0.504
Target Conc. (pCi/L, g, F):	4.772	4.767
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	5.339	5.520
LCSD Counting Uncertainty (pCi/L, g, F):	0.625	0.640
Numerical Performance Indicator:	1.77	2.29
Percent Recovery:	111.88%	115.78%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment	Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D.:	Sample I.D.
Duplicate Sample I.D.:	Sample MS I.D.
Sample Result (pCi/L, g, F):	Sample MSD I.D.
Sample Result Counting Uncertainty (pCi/L, g, F):	Sample Matrix Spike Result:
Sample Duplicate Result (pCi/L, g, F):	Sample Matrix Spike Counting Uncertainty (pCi/L, g, F):
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	Sample Matrix Spike Duplicate Result:
Are sample and/or duplicate results below RL?	Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):
Duplicate Numerical Performance Indicator:	Duplicate Numerical Performance Indicator:
Duplicate Percent Recoveries Duplicate RPD:	(Based on the Percent Recoveries) MS/MSD Duplicate RPD:
Duplicate Status vs Numerical Indicator:	MS/MSD Duplicate Status vs Numerical Indicator:
Duplicate Status vs RPD:	MS/MSD Duplicate Status vs RPD:
% RPD Limit:	% RPD Limit:

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

Comments:

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.:		
Sample MS I.D.:		
Sample MSD I.D.:		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc. (pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D.:
Sample MS I.D.:
Sample MSD I.D.:
Sample Matrix Spike Result:
Sample Matrix Spike Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):
Duplicate Numerical Performance Indicator:
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:
MS/MSD Duplicate Status vs Numerical Indicator:
MS/MSD Duplicate Status vs RPD:
% RPD Limit:

LAM 3/15/21

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.



Test: Ra-226
Analyst: LAL
Date: 3/9/2021
Worklist: 59152
Matrix: DW

Method Blank Assessment	
MB Sample ID	2112389
MB Concentration:	-0.005
M/B Counting Uncertainty:	0.071
MB MDC:	0.214
MB Numerical Performance Indicator:	-0.13
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS# (Y or N)?		N
	LCS#59162	LCS#59152	
Count Date:	3/15/2021		
Decay Corrected Spike Concentration (pCi/mL):	19.033		
Volume Used (mL):	24.039		
Aliquot Volume (L, g, F):	0.10		
Target Conc. (pCi/L, g, F):	0.504		
Uncertainty (Calculated):	4.772		
Result (pCi/L, g, F):	0.057		
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	5.339		
Numerical Performance Indicator:	0.625		
Percent Recovery:	1.77		
Status vs Numerical Indicator:	111.88%		
Upper % Recovery Limits:	Pass		
Lower % Recovery Limits:	125%		
	75%		

Duplicate Sample Assessment	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	92524756004
Duplicate Sample I.D.:	92524756004DUP
Sample Result (pCi/L, g, F):	0.330
Sample Result Counting Uncertainty (pCi/L, g, F):	0.165
Sample Duplicate Result (pCi/L, g, F):	0.280
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.189
Are sample and/or duplicate results below RL?	See Below #
Duplicate Numerical Performance Indicator:	0.394
Duplicate RPD:	16.51%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

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

Comments:

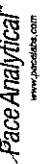
Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date: Sample I.D. Sample MS I.D. Sample MSD I.D. Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated):		
Sample Result: Sample Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Result: Sample Matrix Spike Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F): MS Numerical Performance Indicator: MSD Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D. Sample MS I.D. Sample MSD I.D. Sample Matrix Spike Result: Sample Matrix Spike Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F): Duplicate Numerical Performance Indicator: (Based on the Percent Recoveries) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit

VAM 3/15/21

CWT 3/15/21

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
 Analyst: LAL
 Date: 3/10/2021
 Worklist: 59153
 Matrix: DW

Method Blank Assessment	
MB Sample ID	2112394
MB Concentration:	0.043
M/B Counting Uncertainty:	0.110
MB MDC:	0.264
MB Numerical Performance Indicator:	0.76
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCSID (Y or N)?	N
LCS59153	LCS59153
Count Date:	3/22/2021
Spike ID:	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.039
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.505
Target Conc. (pCi/L, g, F):	4.756
Uncertainty (Calculated):	0.057
Result (pCi/L, g, F):	5.078
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.518
Numerical Performance Indicator:	1.21
Percent Recovery:	106.78%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	125%
Lower % Recovery Limits:	75%

Duplicate Sample Assessment	
Sample I.D.:	92525363011
Duplicate Sample I.D.:	92525363011DUP
Sample Result (pCi/L, g, F):	0.103
Sample Result Counting Uncertainty (pCi/L, g, F):	0.137
Sample Duplicate Result (pCi/L, g, F):	0.063
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.101
Are sample and/or duplicate results below RL?	See Below##
Duplicate Numerical Performance Indicator:	0.675
Duplicate RPD:	64.02%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Fail**
% RPD Limit:	25%

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

Comments:

Batch must be re-prepped due to unacceptable precision: N/A 1AM 3/22/21

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date: Sample I.D.: Sample MS I.D.: Sample MSD I.D.: Spike I.D.: MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated): Sample Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Result: Matrix Spike Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): MS Numerical Performance Indicator: MSD Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D.: Sample MS I.D.: Sample MSD I.D.: Sample Matrix Spike Result: Matrix Spike Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F): Duplicate Numerical Performance Indicator: Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): Duplicate Numerical Performance Indicator: (Based on the Percent Recoveries) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:

OK
 3/22/21
 1AM 3/22/21

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: LAL
Date: 3/10/2021
Worklist: 59153
Matrix: DW

Method Blank Assessment	MB Sample ID: 2112394
MB concentration:	0.043
M/B Counting Uncertainty:	0.110
MB MDC:	0.264
MB Numerical Performance Indicator:	0.76
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	
	LCS59153	Y
Count Date:	3/22/2021	LCS59153
Spike ID.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.039	24.039
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.505	0.506
Target Conc. (pCi/L, g, F):	4.756	4.749
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	5.078	4.939
LCSD Counting Uncertainty (pCi/L, g, F):	0.518	0.508
Numerical Performance Indicator:	1.21	0.73
Percent Recovery:	106.78%	104.01%
Status vs Numerical Indicator:	N/A	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment	Enter Duplicate sample IDs if other than LCS/LCSD in the space below. 92525363011 92525363011DUP
Sample I.D.:	LCS59153
Duplicate Sample I.D.:	LCS59153
Sample Result (pCi/L, g, F):	5.078
Sample Duplicate Result (pCi/L, g, F):	5.078
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	4.939
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.508
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.375
Duplicate Percent Recoveries): Duplicate RPD:	2.62%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date: Sample I.D. Sample MS I.D. Sample MSD I.D. Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL): MS Aliquot (L, g, F): MS Target Conc.(pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated):		
Sample Result: Sample Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Result: Matrix Spike Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): MS Numerical Performance Indicator: MSD Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment	Sample I.D. Sample MS I.D. Sample MSD I.D. Sample Matrix Spike Result: Matrix Spike Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): Duplicate Numerical Performance Indicator: Duplicate Percent Recoveries) MS/ MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:
--	---

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

Comments:

1/10/2021
LAL
VAM 3/22/21

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: LAL
Date: 3/10/2021
Worklist: 59154
Matrix: DW

Method Blank Assessment	
MB Sample ID	2112395
MB Concentration:	0.051
MB Counting Uncertainty:	0.104
MB MDC:	0.242
MB Numerical Performance Indicator:	0.97
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	
	LCS59154	Y
Count Date:	LCS59154	LCS59154
Spike I.D.:	3/22/2021	3/22/2021
Decay Corrected Spike Concentration (pCi/mL):	19-033	19-033
Volume Used (mL):	24.039	24.039
Aliquot Volume (L, g, F):	0.10	0.10
Target Conc. (pCi/L, g, F):	0.505	0.505
Uncertainty (Calculated):	4.759	4.756
Result (pCi/L, g, F):	0.057	0.057
Numerical Performance Indicator:	5.732	4.926
Percent Recovery:	0.549	0.502
Status vs Numerical Indicator:	3.45	0.66
Upper % Recovery Limits:	120.45%	103.59%
Lower % Recovery Limits:	N/A	N/A
	Pass	Pass
	125%	125%
	75%	75%

Duplicate Sample Assessment	Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D.:	Sample I.D.
Duplicate Sample I.D.:	Sample MS I.D.
Sample Result (pCi/L, g, F):	Sample MSD I.D.
Sample Duplicate Result (pCi/L, g, F):	Sample Matrix Spike Result:
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	Sample Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Are sample and/or duplicate results below RL?	Sample Matrix Spike Duplicate Result:
Duplicate Numerical Performance Indicator:	Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
Duplicate (Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	Duplicate Numerical Performance Indicator:
Duplicate Status vs Numerical Indicator:	(Based on the Percent Recoveries) MS/MSD Duplicate RPD:
Duplicate Status vs RPD:	MS/MSD Duplicate Status vs Numerical Indicator:
% RPD Limit:	MS/MSD Duplicate Status vs RPD:
	% RPD Limit:

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

Comments:

Matrix Spike
Matrix Spike

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: LAL
Date: 3/10/2021
Worklist: 59154
Matrix: DW

Method Blank Assessment	
MB Sample ID	2112395
MB concentration:	0.051
M/B Counting Uncertainty:	0.104
MB MDC:	0.242
MB Numerical Performance Indicator:	0.97
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCSD (Y or N)?	N
LCS59154	LCS059154
Count Date:	3/22/2021
Spike I.D.:	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.039
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.505
Target Conc. (pCi/L, g, F):	4.759
Uncertainty (Calculated):	0.057
Result (pCi/L, g, F):	5.732
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.549
Numerical Performance Indicator:	3.45
Percent Recovery:	120.45%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	125%
Lower % Recovery Limits:	75%

Duplicate Sample Assessment	
Sample I.D.:	92525214001
Duplicate Sample I.D.:	92525214001DUP
Sample Result (pCi/L, g, F):	0.114
Sample Result Counting Uncertainty (pCi/L, g, F):	0.189
Sample Duplicate Result (pCi/L, g, F):	0.134
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	0.113
Are sample and/or duplicate results below RL?	See Below ##
Duplicate Numerical Performance Indicator:	-0.180
Duplicate RPD:	16.34%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
92525214001
92525214001DUP

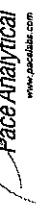
Comments:

MS/MSD 1	MS/MSD 2
<p>Sample Matrix Spike Control Assessment</p> <p>Sample Collection Date:</p> <p>Sample I.D.</p> <p>Sample MS I.D.</p> <p>Sample MSD I.D.</p> <p>Spike I.D.:</p> <p>MS/MSD Decay Corrected Spike Concentration (pCi/mL):</p> <p>Spike Volume Used in MS (mL):</p> <p>Spike Volume Used in MSD (mL):</p> <p>MS Aliquot (L, g, F):</p> <p>MS Target Conc. (pCi/L, g, F):</p> <p>MSD Aliquot (L, g, F):</p> <p>MSD Target Conc. (pCi/L, g, F):</p> <p>MS Spike Uncertainty (calculated):</p> <p>MSD Spike Uncertainty (calculated):</p> <p>MS Spike Result Counting Uncertainty (pCi/L, g, F):</p> <p>Sample Matrix Spike Result:</p> <p>Matrix Spike Result Counting Uncertainty (pCi/L, g, F):</p> <p>Sample Matrix Spike Duplicate Result:</p> <p>MS Numerical Performance Indicator:</p> <p>MSD Numerical Performance Indicator:</p> <p>MS Percent Recovery:</p> <p>MSD Percent Recovery:</p> <p>MS Status vs Numerical Indicator:</p> <p>MSD Status vs Numerical Indicator:</p> <p>MS Status vs Recovery:</p> <p>MSD Status vs Recovery:</p> <p>MS/MSD Upper % Recovery Limits:</p> <p>MS/MSD Lower % Recovery Limits:</p>	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.	Sample MS I.D.
Sample MS I.D.	Sample MSD I.D.
Sample Matrix Spike Result:	Sample Matrix Spike Duplicate Result:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:	Duplicate Numerical Performance Indicator:
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:
Duplicate Numerical Performance Indicator:	MS/ MSD Duplicate Status vs Numerical Indicator:
MS/ MSD Duplicate Status vs RPD:	% RPD Limit:

Handwritten notes: "Matrix Spike/Matrix Spike Duplicate Sample Assessment" and "LAL 3/22/21".

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 3/11/2021
Worklist: 59157
Matrix: WT

Method Blank Assessment	
MB Sample ID	2112538
MB concentration:	0.312
M/B 2 Sigma CSU:	0.330
MB MDC:	0.686
MB Numerical Performance Indicator:	1.85
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCSID (Y or N)?	Y
LCS59157	3/15/2021
Count Date:	3/15/2021
Spike I.D.:	21-003
Decay Corrected Spike Concentration (pCi/mL):	38.455
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.807
Target Conc. (pCi/L, g, F):	4.768
Uncertainty (Calculated):	0.234
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	2.971
Numerical Performance Indicator:	0.764
Percent Recovery:	-2.75
Status vs Numerical Indicator:	73.55%
Upper % Recovery Limits:	N/A
Lower % Recovery Limits:	Pass
	135%
	60%

Duplicate Sample Assessment	
Sample I.D.:	LCS59157
Duplicate Sample I.D.:	LCS59157
Sample Result (pCi/L, g, F):	3.492
Sample Duplicate Result (pCi/L, g, F):	0.863
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	2.971
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.784
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.875
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	16.54%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

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

Comments:

Handwritten signature/initials

Sample Matrix Spike Control Assessment	
Sample Collection Date:	Sample I.D.:
Sample MS I.D.:	Sample MS I.D.:
Sample MSD I.D.:	Sample MSD I.D.:
MS/MSD 1	MS/MSD 2
MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL): MS Aliquot (L, g, F): MS Target Conc (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated): Sample Result: Sample Result 2 Sigma CSU (pCi/L, g, F): Matrix Spike Result: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): MS Numerical Performance Indicator: MSD Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	Sample MS I.D.:
Sample MS I.D.:	Sample MSD I.D.:
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	Sample Matrix Spike Result:
Sample Matrix Spike Duplicate Result:	Sample Matrix Spike Duplicate Result:
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	Duplicate Numerical Performance Indicator:
Duplicate Numerical Performance Indicator:	(Based on the Percent Recoveries) MS/MSD Duplicate RPD:
MS/MSD Duplicate Status vs Numerical Indicator:	MS/MSD Duplicate Status vs RPD:
% RPD Limit:	

Handwritten signature/initials

Quality Control Sample Performance Assessment



Analyst: Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 3/15/2021
Worklist: 59158
Matrix: WT

Method Blank Assessment	
MB Sample ID	2112539
MB concentration:	0.219
MB 2 Sigma CSU:	0.271
MB MDC:	0.570
MB Numerical Performance Indicator:	1.59
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCS/D (Y or N)?	Y
Count Date:		LCS59158	3/19/2021
Spike I.D.:		LCS59158	21-003
Decay Corrected Spike Concentration (pCi/mL):		38.405	38.405
Volume Used (L, g, F):		0.10	0.10
Aliquot Volume (L, g, F):		0.804	0.813
Target Conc. (pCi/L, g, F):		4.777	4.724
Uncertainty (Calculated):		0.234	0.231
Result (pCi/L, g, F):		3.857	3.041
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):		0.900	0.755
Numerical Performance Indicator:		-1.94	-4.18
Percent Recovery:		80.76%	64.39%
Status vs Numerical Indicator:		N/A	N/A
Status vs Recovery:		Pass	Pass
Upper % Recovery Limits:		135%	135%
Lower % Recovery Limits:		60%	60%

Duplicate Sample Assessment	
Sample I.D.:	LCS59158
Duplicate Sample I.D.:	LCS59158
Sample Result (pCi/L, g, F):	3.857
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.900
Sample Duplicate Result (pCi/L, g, F):	3.041
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.755
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	1.362
Duplicate (Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	22.55%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

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

Comments:

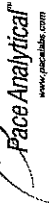
3/24/21

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date: Sample I.D. Sample MS I.D. Sample MSD I.D. Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated):		
Sample Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Result: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): MS Numerical Performance Indicator: MSD Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D. Sample MS I.D. Sample MSD I.D. Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): Duplicate Numerical Performance Indicator: Duplicate (Based on the Percent Recoveries) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:

3/24/21

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: **Re-228**
 Analyst: **VAL**
 Date: **3/15/2021**
 Worklist: **59159**
 Matrix: **WT**

Method Blank Assessment	
MB Sample ID	2112540
MB concentration:	0.387
M/B 2 Sigma CSU:	0.316
MB MDC:	0.633
MB Numerical Performance Indicator:	2.40
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCS/D (Y or N)?	Y
LCS/D59159	LCS/D59159
3/18/2021	3/18/2021
Count Date:	
Spike I.D.:	21-003
Decay Corrected Spike Concentration (pCi/mL):	38.419
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.810
Target Conc. (pCi/L, g, F):	4.741
Uncertainty (Calculated):	0.235
Result (pCi/L, g, F):	4.345
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.851
Numerical Performance Indicator:	-0.79
Percent Recovery:	91.66%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	135%
Lower % Recovery Limits:	60%

Duplicate Sample Assessment	
Sample I.D.:	LCS59159
Duplicate Sample I.D.:	LCS/D59159
Sample Result (pCi/L, g, F):	4.345
Sample Duplicate Result (pCi/L, g, F):	0.951
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.884
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	NO
Are sample and/or duplicate results below RL?	0.519
Duplicate Numerical Performance Indicator:	9.34%
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	Pass
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

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

Comments:

Handwritten signature

MS/MSD 1	MS/MSD 2
<p>Sample Matrix Spike Control Assessment</p> <p>Sample Collection Date: Sample I.D. Sample MS I.D. Sample MSD I.D. Spike I.D.:</p> <p>MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated):</p> <p>Sample Result: Sample Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Result: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): MS Numerical Performance Indicator: MSD Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:</p>	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
<p>Sample I.D. Sample MS I.D. Sample MSD I.D.</p> <p>Sample Matrix Spike Result: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): Duplicate Numerical Performance Indicator: (Based on the Percent Recoveries) MS/MSD Duplicate RPD: MS/MSD Duplicate Status vs Numerical Indicator: MS/MSD Duplicate Status vs RPD: % RPD Limit:</p>	

Handwritten signature

March 26, 2021

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

RE: Project: YATES
Pace Project No.: 92525335

Dear Ms. Petty:

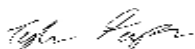
Enclosed are the analytical results for sample(s) received by the laboratory between March 02, 2021 and March 05, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, 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,



Tyler Forney for
Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Samantha Thomas
Maribel Vital



REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: YATES
Pace Project No.: 92525335

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: YATES
Pace Project No.: 92525335

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92525335001	YGWA-5I	Water	03/02/21 14:05	03/02/21 17:30
92525335002	YGWA-5D	Water	03/02/21 14:40	03/02/21 17:30
92525335003	DUP-1	Water	03/02/21 00:00	03/02/21 17:30
92525335005	YGWA-14S	Water	03/02/21 11:20	03/02/21 17:30
92525335006	YGWA-30I	Water	03/01/21 16:25	03/02/21 17:30
92525335007	FB-01	Water	03/02/21 11:30	03/02/21 17:30
92525335008	DUP-01	Water	03/02/21 00:00	03/02/21 17:30
92525335009	FB-01	Water	03/02/21 15:20	03/02/21 17:30
92525335011	YGWA-40	Water	03/04/21 10:10	03/05/21 09:20
92525335012	YGWA-17S	Water	03/03/21 12:20	03/05/21 09:20
92525335013	YGWA-18S	Water	03/03/21 13:50	03/05/21 09:20
92525335014	YGWA-18I	Water	03/03/21 15:00	03/05/21 09:20
92525335015	YGWA-39	Water	03/04/21 10:20	03/05/21 09:20
92525335016	YGWA-1D (030321)	Water	03/03/21 14:25	03/05/21 09:20
92525335017	YGWA-1I (030321)	Water	03/03/21 13:35	03/05/21 09:20
92525335018	YGWA-2I (030321)	Water	03/03/21 11:45	03/05/21 09:20
92525335019	YGWA-3I (030321)	Water	03/03/21 17:00	03/05/21 09:20
92525335020	YGWA-3D (030321)	Water	03/03/21 16:00	03/05/21 09:20
92525335021	EB-02 (03032021)	Water	03/03/21 17:15	03/05/21 09:20
92525335022	YGWA-4I	Water	03/03/21 10:35	03/05/21 09:20
92525335023	YGWA-20S	Water	03/03/21 09:40	03/05/21 09:20
92525335024	YGWA-21I	Water	03/04/21 09:35	03/05/21 09:20

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: YATES
Pace Project No.: 92525335

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92525335001	YGWA-5I	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525335002	YGWA-5D	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525335003	DUP-1	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525335005	YGWA-14S	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	DRB	1
92525335006	YGWA-30I	EPA 6020B	CW1	12
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	12
92525335007	FB-01	SM 2450C-2011	JRS	1
		EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
92525335008	DUP-01	SM 2450C-2011	JRS	1
		EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
92525335009	FB-01	EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	JRS	1

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: YATES
Pace Project No.: 92525335

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92525335011	YGWA-40	EPA 300.0 Rev 2.1 1993	JLH	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
92525335012	YGWA-17S	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
92525335013	YGWA-18S	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
92525335014	YGWA-18I	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
92525335015	YGWA-39	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
92525335016	YGWA-1D (030321)	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2450C-2011	AW1	1
92525335017	YGWA-1I (030321)	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2450C-2011	AW1	1
92525335018	YGWA-2I (030321)	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2450C-2011	AW1	1

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: YATES
Pace Project No.: 92525335

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92525335019	YGWA-3I (030321)	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2450C-2011	AW1	1
92525335020	YGWA-3D (030321)	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2450C-2011	AW1	1
92525335021	EB-02 (03032021)	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92525335022	YGWA-4I	SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	12
92525335023	YGWA-20S	EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
92525335024	YGWA-21I	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3

PASI-A = Pace Analytical Services - Asheville
PASI-C = Pace Analytical Services - Charlotte
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES
Pace Project No.: 92525335

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92525335001	YGWA-5I					
	Performed by	CUSTOMER			03/08/21 09:07	
	pH	5.63	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	2.6	mg/L	1.0	03/09/21 02:21	
EPA 6020B	Barium	0.019	mg/L	0.0050	03/05/21 16:43	
EPA 6020B	Boron	0.011J	mg/L	0.040	03/05/21 16:43	
EPA 6020B	Lead	0.000092J	mg/L	0.0010	03/05/21 16:43	
EPA 6020B	Lithium	0.0031J	mg/L	0.030	03/05/21 16:43	
SM 2450C-2011	Total Dissolved Solids	67.0	mg/L	10.0	03/04/21 14:30	
EPA 300.0 Rev 2.1 1993	Chloride	4.3	mg/L	1.0	03/06/21 20:37	
EPA 300.0 Rev 2.1 1993	Sulfate	2.3	mg/L	1.0	03/06/21 20:37	
92525335002	YGWA-5D					
	Performed by	CUSTOMER			03/08/21 09:07	
	pH	7.15	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	1.6	mg/L	1.0	03/09/21 02:41	
EPA 6020B	Barium	0.014	mg/L	0.0050	03/05/21 16:49	
EPA 6020B	Boron	0.0068J	mg/L	0.040	03/05/21 16:49	
EPA 6020B	Lead	0.000051J	mg/L	0.0010	03/05/21 16:49	
EPA 6020B	Lithium	0.0018J	mg/L	0.030	03/05/21 16:49	
SM 2450C-2011	Total Dissolved Solids	52.0	mg/L	10.0	03/04/21 14:30	
EPA 300.0 Rev 2.1 1993	Chloride	3.2	mg/L	1.0	03/06/21 21:49	
EPA 300.0 Rev 2.1 1993	Sulfate	2.6	mg/L	1.0	03/06/21 21:49	
92525335003	DUP-1					
EPA 6010D	Calcium	1.5	mg/L	1.0	03/09/21 02:46	
EPA 6020B	Antimony	0.0015J	mg/L	0.0030	03/05/21 17:11	
EPA 6020B	Barium	0.014	mg/L	0.0050	03/05/21 17:11	
EPA 6020B	Boron	0.013J	mg/L	0.040	03/05/21 17:11	
EPA 6020B	Lead	0.000069J	mg/L	0.0010	03/05/21 17:11	
EPA 6020B	Lithium	0.0016J	mg/L	0.030	03/05/21 17:11	
SM 2450C-2011	Total Dissolved Solids	48.0	mg/L	10.0	03/04/21 14:30	
EPA 300.0 Rev 2.1 1993	Chloride	3.0	mg/L	1.0	03/06/21 22:04	
EPA 300.0 Rev 2.1 1993	Sulfate	2.0	mg/L	1.0	03/06/21 22:04	
92525335005	YGWA-14S					
	Performed by	CUSTOMER			03/08/21 09:07	
	pH	5.49	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	1.2	mg/L	1.0	03/09/21 02:56	
EPA 6020B	Barium	0.0076	mg/L	0.0050	03/05/21 17:23	
EPA 6020B	Beryllium	0.00018J	mg/L	0.00050	03/05/21 17:23	
EPA 6020B	Boron	0.017J	mg/L	0.040	03/05/21 17:23	
SM 2450C-2011	Total Dissolved Solids	67.0	mg/L	10.0	03/04/21 14:30	
EPA 300.0 Rev 2.1 1993	Chloride	4.9	mg/L	1.0	03/06/21 22:32	
EPA 300.0 Rev 2.1 1993	Sulfate	6.0	mg/L	1.0	03/06/21 22:32	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES
Pace Project No.: 92525335

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92525335006	YGWA-30I					
	Performed by	CUSTOME			03/08/21 09:07	
		R				
	pH	5.78	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	1.2	mg/L	1.0	03/09/21 03:00	
EPA 6020B	Barium	0.0070	mg/L	0.0050	03/05/21 17:58	
EPA 6020B	Cobalt	0.0061	mg/L	0.0050	03/05/21 17:58	
EPA 6020B	Lithium	0.0011J	mg/L	0.030	03/05/21 17:58	
SM 2450C-2011	Total Dissolved Solids	23.0	mg/L	10.0	03/04/21 10:19	D6
EPA 300.0 Rev 2.1 1993	Chloride	1.6	mg/L	1.0	03/06/21 22:47	
EPA 300.0 Rev 2.1 1993	Sulfate	0.88J	mg/L	1.0	03/06/21 22:47	
92525335007	FB-01					
EPA 6010D	Calcium	34.4	mg/L	1.0	03/09/21 03:05	
EPA 6020B	Barium	0.022	mg/L	0.0050	03/05/21 18:04	
EPA 6020B	Chromium	0.00062J	mg/L	0.0050	03/05/21 18:04	
EPA 6020B	Lithium	0.0016J	mg/L	0.030	03/05/21 18:04	
SM 2450C-2011	Total Dissolved Solids	65.0	mg/L	10.0	03/05/21 11:04	
EPA 300.0 Rev 2.1 1993	Chloride	1.6	mg/L	1.0	03/06/21 23:01	
EPA 300.0 Rev 2.1 1993	Sulfate	2.2	mg/L	1.0	03/06/21 23:01	
92525335008	DUP-01					
EPA 6010D	Calcium	1.2	mg/L	1.0	03/09/21 03:20	
EPA 6020B	Barium	0.0078	mg/L	0.0050	03/05/21 18:09	
EPA 6020B	Beryllium	0.00020J	mg/L	0.00050	03/05/21 18:09	
EPA 6020B	Boron	0.016J	mg/L	0.040	03/05/21 18:09	
SM 2450C-2011	Total Dissolved Solids	32.0	mg/L	10.0	03/05/21 11:04	
EPA 300.0 Rev 2.1 1993	Chloride	5.0	mg/L	1.0	03/06/21 23:16	
EPA 300.0 Rev 2.1 1993	Sulfate	6.1	mg/L	1.0	03/06/21 23:16	
92525335011	YGWA-40					
	Performed by	CUSTOME			03/08/21 09:07	
		R				
	pH	5.23	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	4.6	mg/L	1.0	03/10/21 05:29	
EPA 6020B	Barium	0.032	mg/L	0.0050	03/09/21 15:48	
EPA 6020B	Beryllium	0.00021J	mg/L	0.00050	03/09/21 15:48	
EPA 6020B	Boron	0.078	mg/L	0.040	03/09/21 15:48	
SM 2450C-2011	Total Dissolved Solids	57.0	mg/L	10.0	03/06/21 12:32	
EPA 300.0 Rev 2.1 1993	Chloride	4.9	mg/L	1.0	03/13/21 17:54	
EPA 300.0 Rev 2.1 1993	Sulfate	21.5	mg/L	1.0	03/13/21 17:54	
92525335012	YGWA-17S					
	Performed by	CUSTOME			03/08/21 09:07	
		R				
	pH	5.52	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	2.5	mg/L	1.0	03/10/21 05:59	
EPA 6020B	Barium	0.017	mg/L	0.0050	03/09/21 15:54	
EPA 6020B	Beryllium	0.000099J	mg/L	0.00050	03/09/21 15:54	
EPA 6020B	Boron	0.010J	mg/L	0.040	03/09/21 15:54	
EPA 6020B	Chromium	0.00082J	mg/L	0.0050	03/09/21 15:54	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES
Pace Project No.: 92525335

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92525335012	YGWA-17S					
SM 2450C-2011	Total Dissolved Solids	57.0	mg/L	10.0	03/05/21 15:36	
EPA 300.0 Rev 2.1 1993	Chloride	7.1	mg/L	1.0	03/13/21 18:10	
EPA 300.0 Rev 2.1 1993	Sulfate	5.2	mg/L	1.0	03/13/21 18:10	
92525335013	YGWA-18S					
	Performed by	CUSTOMER			03/08/21 09:07	
	pH	5.31	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	0.96J	mg/L	1.0	03/10/21 06:03	
EPA 6020B	Antimony	0.00067J	mg/L	0.0030	03/09/21 16:17	
EPA 6020B	Barium	0.017	mg/L	0.0050	03/09/21 16:17	
EPA 6020B	Beryllium	0.00011J	mg/L	0.00050	03/09/21 16:17	
EPA 6020B	Boron	0.0094J	mg/L	0.040	03/09/21 16:17	
EPA 6020B	Chromium	0.0010J	mg/L	0.0050	03/09/21 16:17	
EPA 6020B	Lead	0.000076J	mg/L	0.0010	03/09/21 16:17	
EPA 6020B	Lithium	0.0021J	mg/L	0.030	03/09/21 16:17	
SM 2450C-2011	Total Dissolved Solids	37.0	mg/L	10.0	03/05/21 15:36	
EPA 300.0 Rev 2.1 1993	Chloride	7.2	mg/L	1.0	03/13/21 18:56	
EPA 300.0 Rev 2.1 1993	Sulfate	1.0	mg/L	1.0	03/13/21 18:56	
92525335014	YGWA-18I					
	Performed by	CUSTOMER			03/08/21 09:07	
	pH	5.89	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	5.2	mg/L	1.0	03/10/21 06:08	
EPA 6020B	Barium	0.023	mg/L	0.0050	03/09/21 16:23	
EPA 6020B	Chromium	0.00087J	mg/L	0.0050	03/09/21 16:23	
EPA 6020B	Lithium	0.0034J	mg/L	0.030	03/09/21 16:23	
SM 2450C-2011	Total Dissolved Solids	95.0	mg/L	10.0	03/06/21 13:09	
EPA 300.0 Rev 2.1 1993	Chloride	7.0	mg/L	1.0	03/13/21 19:12	
92525335015	YGWA-39					
	Performed by	CUSTOMER			03/08/21 09:07	
	pH	5.54	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	8.2	mg/L	1.0	03/10/21 06:13	
EPA 6020B	Barium	0.028	mg/L	0.0050	03/09/21 16:28	
EPA 6020B	Boron	0.033J	mg/L	0.040	03/09/21 16:28	
EPA 6020B	Cadmium	0.00030J	mg/L	0.00050	03/09/21 16:28	
EPA 6020B	Cobalt	0.00071J	mg/L	0.0050	03/09/21 16:28	
EPA 6020B	Lithium	0.0084J	mg/L	0.030	03/09/21 16:28	
EPA 6020B	Molybdenum	0.0014J	mg/L	0.010	03/09/21 16:28	
SM 2450C-2011	Total Dissolved Solids	168	mg/L	10.0	03/06/21 12:32	
EPA 300.0 Rev 2.1 1993	Chloride	4.9	mg/L	1.0	03/13/21 19:28	
EPA 300.0 Rev 2.1 1993	Sulfate	12.0	mg/L	1.0	03/13/21 19:28	
92525335016	YGWA-1D (030321)					
	Performed by	CUSTOMER			03/08/21 09:07	
	pH	7.20	Std. Units		03/08/21 09:07	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES
Pace Project No.: 92525335

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92525335016	YGWA-1D (030321)					
EPA 6010D	Calcium	14.1	mg/L	1.0	03/10/21 06:18	
EPA 6020B	Barium	0.0068	mg/L	0.0050	03/09/21 17:01	
EPA 6020B	Lead	0.000056J	mg/L	0.0010	03/09/21 17:01	
EPA 6020B	Lithium	0.012J	mg/L	0.030	03/09/21 17:01	
EPA 6020B	Molybdenum	0.0088J	mg/L	0.010	03/09/21 17:01	
SM 2450C-2011	Total Dissolved Solids	99.0	mg/L	10.0	03/06/21 13:09	
EPA 300.0 Rev 2.1 1993	Chloride	0.96J	mg/L	1.0	03/13/21 19:43	
EPA 300.0 Rev 2.1 1993	Fluoride	0.078J	mg/L	0.10	03/13/21 19:43	
EPA 300.0 Rev 2.1 1993	Sulfate	9.0	mg/L	1.0	03/13/21 19:43	
92525335017	YGWA-1I (030321)					
	Performed by	CUSTOME			03/08/21 09:07	
		R				
	pH	5.38	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	1.8	mg/L	1.0	03/10/21 06:23	
EPA 6020B	Barium	0.0094	mg/L	0.0050	03/09/21 17:07	
EPA 6020B	Cobalt	0.0030J	mg/L	0.0050	03/09/21 17:07	
EPA 6020B	Lithium	0.0025J	mg/L	0.030	03/09/21 17:07	
EPA 6020B	Molybdenum	0.0049J	mg/L	0.010	03/09/21 17:07	
SM 2450C-2011	Total Dissolved Solids	39.0	mg/L	10.0	03/06/21 13:09	
EPA 300.0 Rev 2.1 1993	Chloride	1.2	mg/L	1.0	03/13/21 19:59	
EPA 300.0 Rev 2.1 1993	Sulfate	4.4	mg/L	1.0	03/13/21 19:59	
92525335018	YGWA-2I (030321)					
	Performed by	CUSTOME			03/08/21 09:07	
		R				
	pH	7.92	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	25.6	mg/L	1.0	03/10/21 06:28	
EPA 6020B	Arsenic	0.00098J	mg/L	0.0050	03/09/21 17:12	
EPA 6020B	Barium	0.0041J	mg/L	0.0050	03/09/21 17:12	
EPA 6020B	Lithium	0.0016J	mg/L	0.030	03/09/21 17:12	
EPA 6020B	Molybdenum	0.0074J	mg/L	0.010	03/09/21 17:12	
SM 2450C-2011	Total Dissolved Solids	138	mg/L	10.0	03/06/21 13:10	
EPA 300.0 Rev 2.1 1993	Chloride	0.86J	mg/L	1.0	03/13/21 20:14	
EPA 300.0 Rev 2.1 1993	Fluoride	0.085J	mg/L	0.10	03/13/21 20:14	
EPA 300.0 Rev 2.1 1993	Sulfate	10.6	mg/L	1.0	03/13/21 20:14	
92525335019	YGWA-3I (030321)					
	Performed by	CUSTOME			03/08/21 09:07	
		R				
	pH	8.23	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	20.6	mg/L	1.0	03/10/21 06:32	
EPA 6020B	Barium	0.0031J	mg/L	0.0050	03/09/21 17:18	
EPA 6020B	Lithium	0.017J	mg/L	0.030	03/09/21 17:18	
EPA 6020B	Molybdenum	0.0036J	mg/L	0.010	03/09/21 17:18	
SM 2450C-2011	Total Dissolved Solids	111	mg/L	10.0	03/06/21 13:10	
EPA 300.0 Rev 2.1 1993	Chloride	0.99J	mg/L	1.0	03/13/21 21:00	
EPA 300.0 Rev 2.1 1993	Fluoride	0.10	mg/L	0.10	03/13/21 21:00	
EPA 300.0 Rev 2.1 1993	Sulfate	9.6	mg/L	1.0	03/13/21 21:00	M1

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES
Pace Project No.: 92525335

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92525335020	YGWA-3D (030321)					
	Performed by	CUSTOME			03/08/21 09:07	
		R				
	pH	8.39	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	29.8	mg/L	1.0	03/10/21 06:47	
EPA 6020B	Barium	0.0064	mg/L	0.0050	03/09/21 17:24	
EPA 6020B	Lithium	0.024J	mg/L	0.030	03/09/21 17:24	
EPA 6020B	Molybdenum	0.013	mg/L	0.010	03/09/21 17:24	
SM 2450C-2011	Total Dissolved Solids	137	mg/L	10.0	03/06/21 13:10	
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	03/13/21 22:18	
EPA 300.0 Rev 2.1 1993	Fluoride	0.44	mg/L	0.10	03/13/21 22:18	
EPA 300.0 Rev 2.1 1993	Sulfate	7.0	mg/L	1.0	03/13/21 22:18	
92525335021	EB-02 (03032021)					
EPA 6010D	Calcium	33.3	mg/L	1.0	03/10/21 06:52	
EPA 6020B	Barium	0.023	mg/L	0.0050	03/09/21 17:29	
EPA 6020B	Chromium	0.00057J	mg/L	0.0050	03/09/21 17:29	
EPA 6020B	Lithium	0.0016J	mg/L	0.030	03/09/21 17:29	
SM 2450C-2011	Total Dissolved Solids	102	mg/L	10.0	03/06/21 13:10	
EPA 300.0 Rev 2.1 1993	Chloride	1.6	mg/L	1.0	03/13/21 22:33	
EPA 300.0 Rev 2.1 1993	Sulfate	2.2	mg/L	1.0	03/13/21 22:33	
92525335022	YGWA-4I					
	Performed by	CUSTOME			03/08/21 09:07	
		R				
	pH	6.21	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	7.7	mg/L	1.0	03/10/21 06:56	
EPA 6020B	Barium	0.014	mg/L	0.0050	03/09/21 17:35	
EPA 6020B	Boron	0.0056J	mg/L	0.040	03/09/21 17:35	
EPA 6020B	Chromium	0.0013J	mg/L	0.0050	03/09/21 17:35	
EPA 6020B	Lithium	0.012J	mg/L	0.030	03/09/21 17:35	
EPA 6020B	Selenium	0.0019J	mg/L	0.0050	03/09/21 17:35	
SM 2450C-2011	Total Dissolved Solids	80.0	mg/L	10.0	03/06/21 13:11	
EPA 300.0 Rev 2.1 1993	Chloride	4.1	mg/L	1.0	03/13/21 22:49	
EPA 300.0 Rev 2.1 1993	Sulfate	7.8	mg/L	1.0	03/13/21 22:49	
92525335023	YGWA-20S					
	Performed by	CUSTOME			03/08/21 09:07	
		R				
	pH	5.89	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	2.4	mg/L	1.0	03/10/21 07:01	
EPA 6020B	Barium	0.015	mg/L	0.0050	03/09/21 17:56	
EPA 6020B	Beryllium	0.000068J	mg/L	0.00050	03/09/21 17:56	
EPA 6020B	Lead	0.000045J	mg/L	0.0010	03/09/21 17:56	
SM 2450C-2011	Total Dissolved Solids	53.0	mg/L	10.0	03/06/21 13:11	
EPA 300.0 Rev 2.1 1993	Chloride	2.7	mg/L	1.0	03/13/21 23:04	
92525335024	YGWA-21I					
	Performed by	CUSTOME			03/08/21 09:07	
		R				
	pH	6.80	Std. Units		03/08/21 09:07	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YATES
Pace Project No.: 92525335

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525335024	YGWA-21I					
EPA 6010D	Calcium	8.7	mg/L	1.0	03/10/21 07:06	
EPA 6020B	Antimony	0.0014J	mg/L	0.0030	03/09/21 18:02	
EPA 6020B	Arsenic	0.00078J	mg/L	0.0050	03/09/21 18:02	
EPA 6020B	Barium	0.011	mg/L	0.0050	03/09/21 18:02	
EPA 6020B	Boron	0.0079J	mg/L	0.040	03/09/21 18:02	
EPA 6020B	Cobalt	0.0065	mg/L	0.0050	03/09/21 18:02	
EPA 6020B	Lithium	0.0062J	mg/L	0.030	03/09/21 18:02	
SM 2450C-2011	Total Dissolved Solids	110	mg/L	10.0	03/06/21 12:32	
EPA 300.0 Rev 2.1 1993	Chloride	1.8	mg/L	1.0	03/13/21 23:20	
EPA 300.0 Rev 2.1 1993	Fluoride	0.091J	mg/L	0.10	03/13/21 23:20	
EPA 300.0 Rev 2.1 1993	Sulfate	4.5	mg/L	1.0	03/13/21 23:20	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-5I		Lab ID: 92525335001		Collected: 03/02/21 14:05		Received: 03/02/21 17:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/08/21 09:07		
pH	5.63	Std. Units			1		03/08/21 09:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	2.6	mg/L	1.0	0.070	1	03/04/21 11:30	03/09/21 02:21	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/04/21 11:29	03/05/21 16:43	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/04/21 11:29	03/05/21 16:43	7440-38-2	
Barium	0.019	mg/L	0.0050	0.00071	1	03/04/21 11:29	03/05/21 16:43	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/04/21 11:29	03/05/21 16:43	7440-41-7	
Boron	0.011J	mg/L	0.040	0.0052	1	03/04/21 11:29	03/05/21 16:43	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/04/21 11:29	03/05/21 16:43	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/04/21 11:29	03/05/21 16:43	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/04/21 11:29	03/05/21 16:43	7440-48-4	
Lead	0.000092J	mg/L	0.0010	0.000036	1	03/04/21 11:29	03/05/21 16:43	7439-92-1	
Lithium	0.0031J	mg/L	0.030	0.00081	1	03/04/21 11:29	03/05/21 16:43	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/04/21 11:29	03/05/21 16:43	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/04/21 11:29	03/05/21 16:43	7782-49-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 14:15	03/05/21 10:52	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	67.0	mg/L	10.0	10.0	1		03/04/21 14:30		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	4.3	mg/L	1.0	0.60	1		03/06/21 20:37	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/06/21 20:37	16984-48-8	
Sulfate	2.3	mg/L	1.0	0.50	1		03/06/21 20:37	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-5D		Lab ID: 92525335002		Collected: 03/02/21 14:40		Received: 03/02/21 17:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/08/21 09:07		
pH	7.15	Std. Units			1		03/08/21 09:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	1.6	mg/L	1.0	0.070	1	03/04/21 11:30	03/09/21 02:41	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/04/21 11:29	03/05/21 16:49	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/04/21 11:29	03/05/21 16:49	7440-38-2	
Barium	0.014	mg/L	0.0050	0.00071	1	03/04/21 11:29	03/05/21 16:49	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/04/21 11:29	03/05/21 16:49	7440-41-7	
Boron	0.0068J	mg/L	0.040	0.0052	1	03/04/21 11:29	03/05/21 16:49	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/04/21 11:29	03/05/21 16:49	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/04/21 11:29	03/05/21 16:49	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/04/21 11:29	03/05/21 16:49	7440-48-4	
Lead	0.000051J	mg/L	0.0010	0.000036	1	03/04/21 11:29	03/05/21 16:49	7439-92-1	
Lithium	0.0018J	mg/L	0.030	0.00081	1	03/04/21 11:29	03/05/21 16:49	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/04/21 11:29	03/05/21 16:49	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/04/21 11:29	03/05/21 16:49	7782-49-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 14:15	03/05/21 10:55	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	52.0	mg/L	10.0	10.0	1		03/04/21 14:30		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	3.2	mg/L	1.0	0.60	1		03/06/21 21:49	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/06/21 21:49	16984-48-8	
Sulfate	2.6	mg/L	1.0	0.50	1		03/06/21 21:49	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: DUP-1		Lab ID: 92525335003		Collected: 03/02/21 00:00	Received: 03/02/21 17:30	Matrix: Water			
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA							
Calcium	1.5	mg/L	1.0	0.070	1	03/04/21 11:30	03/09/21 02:46	7440-70-2	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	0.0015J	mg/L	0.0030	0.00028	1	03/04/21 11:29	03/05/21 17:11	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/04/21 11:29	03/05/21 17:11	7440-38-2	
Barium	0.014	mg/L	0.0050	0.00071	1	03/04/21 11:29	03/05/21 17:11	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/04/21 11:29	03/05/21 17:11	7440-41-7	
Boron	0.013J	mg/L	0.040	0.0052	1	03/04/21 11:29	03/05/21 17:11	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/04/21 11:29	03/05/21 17:11	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/04/21 11:29	03/05/21 17:11	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/04/21 11:29	03/05/21 17:11	7440-48-4	
Lead	0.000069J	mg/L	0.0010	0.000036	1	03/04/21 11:29	03/05/21 17:11	7439-92-1	
Lithium	0.0016J	mg/L	0.030	0.00081	1	03/04/21 11:29	03/05/21 17:11	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/04/21 11:29	03/05/21 17:11	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/04/21 11:29	03/05/21 17:11	7782-49-2	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA							
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 14:15	03/05/21 10:57	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	48.0	mg/L	10.0	10.0	1		03/04/21 14:30		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	3.0	mg/L	1.0	0.60	1		03/06/21 22:04	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/06/21 22:04	16984-48-8	
Sulfate	2.0	mg/L	1.0	0.50	1		03/06/21 22:04	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-14S		Lab ID: 92525335005		Collected: 03/02/21 11:20		Received: 03/02/21 17:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/08/21 09:07		
pH	5.49	Std. Units			1		03/08/21 09:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	1.2	mg/L	1.0	0.070	1	03/04/21 11:30	03/09/21 02:56	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/04/21 11:29	03/05/21 17:23	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/04/21 11:29	03/05/21 17:23	7440-38-2	
Barium	0.0076	mg/L	0.0050	0.00071	1	03/04/21 11:29	03/05/21 17:23	7440-39-3	
Beryllium	0.00018J	mg/L	0.00050	0.000046	1	03/04/21 11:29	03/05/21 17:23	7440-41-7	
Boron	0.017J	mg/L	0.040	0.0052	1	03/04/21 11:29	03/05/21 17:23	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/04/21 11:29	03/05/21 17:23	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/04/21 11:29	03/05/21 17:23	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/04/21 11:29	03/05/21 17:23	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/04/21 11:29	03/05/21 17:23	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/04/21 11:29	03/05/21 17:23	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/04/21 11:29	03/05/21 17:23	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/04/21 11:29	03/05/21 17:23	7782-49-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	67.0	mg/L	10.0	10.0	1		03/04/21 14:30		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	4.9	mg/L	1.0	0.60	1		03/06/21 22:32	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/06/21 22:32	16984-48-8	
Sulfate	6.0	mg/L	1.0	0.50	1		03/06/21 22:32	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-301		Lab ID: 92525335006		Collected: 03/01/21 16:25		Received: 03/02/21 17:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/08/21 09:07		
pH	5.78	Std. Units			1		03/08/21 09:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	1.2	mg/L	1.0	0.070	1	03/04/21 11:30	03/09/21 03:00	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/04/21 11:29	03/05/21 17:58	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/04/21 11:29	03/05/21 17:58	7440-38-2	
Barium	0.0070	mg/L	0.0050	0.00071	1	03/04/21 11:29	03/05/21 17:58	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/04/21 11:29	03/05/21 17:58	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/04/21 11:29	03/05/21 17:58	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/04/21 11:29	03/05/21 17:58	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/04/21 11:29	03/05/21 17:58	7440-47-3	
Cobalt	0.0061	mg/L	0.0050	0.00038	1	03/04/21 11:29	03/05/21 17:58	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/04/21 11:29	03/05/21 17:58	7439-92-1	
Lithium	0.0011J	mg/L	0.030	0.00081	1	03/04/21 11:29	03/05/21 17:58	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/04/21 11:29	03/05/21 17:58	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/04/21 11:29	03/05/21 17:58	7782-49-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	23.0	mg/L	10.0	10.0	1		03/04/21 10:19		D6
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.6	mg/L	1.0	0.60	1		03/06/21 22:47	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/06/21 22:47	16984-48-8	
Sulfate	0.88J	mg/L	1.0	0.50	1		03/06/21 22:47	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: FB-01		Lab ID: 92525335007		Collected: 03/02/21 11:30		Received: 03/02/21 17:30		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	34.4	mg/L	1.0	0.070	1	03/04/21 11:30	03/09/21 03:05	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	03/04/21 11:29	03/05/21 18:04	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	03/04/21 11:29	03/05/21 18:04	7440-38-2		
Barium	0.022	mg/L	0.0050	0.00071	1	03/04/21 11:29	03/05/21 18:04	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	03/04/21 11:29	03/05/21 18:04	7440-41-7		
Boron	ND	mg/L	0.040	0.0052	1	03/04/21 11:29	03/05/21 18:04	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00012	1	03/04/21 11:29	03/05/21 18:04	7440-43-9		
Chromium	0.00062J	mg/L	0.0050	0.00055	1	03/04/21 11:29	03/05/21 18:04	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	03/04/21 11:29	03/05/21 18:04	7440-48-4		
Lead	ND	mg/L	0.0010	0.000036	1	03/04/21 11:29	03/05/21 18:04	7439-92-1		
Lithium	0.0016J	mg/L	0.030	0.00081	1	03/04/21 11:29	03/05/21 18:04	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	03/04/21 11:29	03/05/21 18:04	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0016	1	03/04/21 11:29	03/05/21 18:04	7782-49-2		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 14:15	03/05/21 11:07	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	65.0	mg/L	10.0	10.0	1		03/05/21 11:04			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	1.6	mg/L	1.0	0.60	1		03/06/21 23:01	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		03/06/21 23:01	16984-48-8		
Sulfate	2.2	mg/L	1.0	0.50	1		03/06/21 23:01	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: DUP-01		Lab ID: 92525335008		Collected: 03/02/21 00:00		Received: 03/02/21 17:30		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	1.2	mg/L	1.0	0.070	1	03/04/21 11:30	03/09/21 03:20	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	03/04/21 11:29	03/05/21 18:09	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	03/04/21 11:29	03/05/21 18:09	7440-38-2		
Barium	0.0078	mg/L	0.0050	0.00071	1	03/04/21 11:29	03/05/21 18:09	7440-39-3		
Beryllium	0.00020J	mg/L	0.00050	0.000046	1	03/04/21 11:29	03/05/21 18:09	7440-41-7		
Boron	0.016J	mg/L	0.040	0.0052	1	03/04/21 11:29	03/05/21 18:09	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00012	1	03/04/21 11:29	03/05/21 18:09	7440-43-9		
Chromium	ND	mg/L	0.0050	0.00055	1	03/04/21 11:29	03/05/21 18:09	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	03/04/21 11:29	03/05/21 18:09	7440-48-4		
Lead	ND	mg/L	0.0010	0.000036	1	03/04/21 11:29	03/05/21 18:09	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	03/04/21 11:29	03/05/21 18:09	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	03/04/21 11:29	03/05/21 18:09	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0016	1	03/04/21 11:29	03/05/21 18:09	7782-49-2		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 14:15	03/05/21 11:09	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	32.0	mg/L	10.0	10.0	1		03/05/21 11:04			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	5.0	mg/L	1.0	0.60	1		03/06/21 23:16	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		03/06/21 23:16	16984-48-8		
Sulfate	6.1	mg/L	1.0	0.50	1		03/06/21 23:16	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: FB-01		Lab ID: 92525335009		Collected: 03/02/21 15:20	Received: 03/02/21 17:30	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.070	1	03/04/21 11:30	03/09/21 03:24	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	03/04/21 11:29	03/05/21 18:15	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	03/04/21 11:29	03/05/21 18:15	7440-38-2		
Barium	ND	mg/L	0.0050	0.00071	1	03/04/21 11:29	03/05/21 18:15	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	03/04/21 11:29	03/05/21 18:15	7440-41-7		
Boron	ND	mg/L	0.040	0.0052	1	03/04/21 11:29	03/05/21 18:15	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00012	1	03/04/21 11:29	03/05/21 18:15	7440-43-9		
Chromium	ND	mg/L	0.0050	0.00055	1	03/04/21 11:29	03/05/21 18:15	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	03/04/21 11:29	03/05/21 18:15	7440-48-4		
Lead	ND	mg/L	0.0010	0.000036	1	03/04/21 11:29	03/05/21 18:15	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	03/04/21 11:29	03/05/21 18:15	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	03/04/21 11:29	03/05/21 18:15	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0016	1	03/04/21 11:29	03/05/21 18:15	7782-49-2		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 14:15	03/05/21 11:11	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/05/21 11:05			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		03/06/21 23:30	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		03/06/21 23:30	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		03/06/21 23:30	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-40		Lab ID: 92525335011		Collected: 03/04/21 10:10		Received: 03/05/21 09:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/08/21 09:07		
pH	5.23	Std. Units			1		03/08/21 09:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	4.6	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 05:29	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/08/21 11:57	03/09/21 15:48	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 15:48	7440-38-2	
Barium	0.032	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 15:48	7440-39-3	
Beryllium	0.00021J	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 15:48	7440-41-7	
Boron	0.078	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 15:48	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 15:48	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 15:48	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 15:48	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 15:48	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 15:48	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 15:48	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 15:48	7782-49-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 13:30	03/09/21 10:52	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	57.0	mg/L	10.0	10.0	1		03/06/21 12:32		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	4.9	mg/L	1.0	0.60	1		03/13/21 17:54	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/13/21 17:54	16984-48-8	
Sulfate	21.5	mg/L	1.0	0.50	1		03/13/21 17:54	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-17S		Lab ID: 92525335012		Collected: 03/03/21 12:20		Received: 03/05/21 09:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/08/21 09:07		
pH	5.52	Std. Units			1		03/08/21 09:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	2.5	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 05:59	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/08/21 11:57	03/09/21 15:54	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 15:54	7440-38-2	
Barium	0.017	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 15:54	7440-39-3	
Beryllium	0.000099J	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 15:54	7440-41-7	
Boron	0.010J	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 15:54	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 15:54	7440-43-9	
Chromium	0.00082J	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 15:54	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 15:54	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 15:54	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 15:54	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 15:54	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 15:54	7782-49-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 13:30	03/09/21 10:54	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	57.0	mg/L	10.0	10.0	1		03/05/21 15:36		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	7.1	mg/L	1.0	0.60	1		03/13/21 18:10	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/13/21 18:10	16984-48-8	
Sulfate	5.2	mg/L	1.0	0.50	1		03/13/21 18:10	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-18S		Lab ID: 92525335013		Collected: 03/03/21 13:50		Received: 03/05/21 09:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/08/21 09:07		
pH	5.31	Std. Units			1		03/08/21 09:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	0.96J	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 06:03	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00067J	mg/L	0.0030	0.00028	1	03/08/21 11:57	03/09/21 16:17	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 16:17	7440-38-2	
Barium	0.017	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 16:17	7440-39-3	
Beryllium	0.00011J	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 16:17	7440-41-7	
Boron	0.0094J	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 16:17	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 16:17	7440-43-9	
Chromium	0.0010J	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 16:17	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 16:17	7440-48-4	
Lead	0.000076J	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 16:17	7439-92-1	
Lithium	0.0021J	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 16:17	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 16:17	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 16:17	7782-49-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 13:30	03/09/21 10:57	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	37.0	mg/L	10.0	10.0	1		03/05/21 15:36		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	7.2	mg/L	1.0	0.60	1		03/13/21 18:56	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/13/21 18:56	16984-48-8	
Sulfate	1.0	mg/L	1.0	0.50	1		03/13/21 18:56	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-181		Lab ID: 92525335014		Collected: 03/03/21 15:00		Received: 03/05/21 09:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/08/21 09:07		
pH	5.89	Std. Units			1		03/08/21 09:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	5.2	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 06:08	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/08/21 11:57	03/09/21 16:23	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 16:23	7440-38-2	
Barium	0.023	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 16:23	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 16:23	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 16:23	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 16:23	7440-43-9	
Chromium	0.00087J	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 16:23	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 16:23	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 16:23	7439-92-1	
Lithium	0.0034J	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 16:23	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 16:23	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 16:23	7782-49-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 13:30	03/09/21 10:59	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	95.0	mg/L	10.0	10.0	1		03/06/21 13:09		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	7.0	mg/L	1.0	0.60	1		03/13/21 19:12	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/13/21 19:12	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/13/21 19:12	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-39		Lab ID: 92525335015		Collected: 03/04/21 10:20		Received: 03/05/21 09:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/08/21 09:07		
pH	5.54	Std. Units			1		03/08/21 09:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	8.2	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 06:13	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/08/21 11:57	03/09/21 16:28	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 16:28	7440-38-2	
Barium	0.028	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 16:28	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 16:28	7440-41-7	
Boron	0.033J	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 16:28	7440-42-8	
Cadmium	0.00030J	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 16:28	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 16:28	7440-47-3	
Cobalt	0.00071J	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 16:28	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 16:28	7439-92-1	
Lithium	0.0084J	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 16:28	7439-93-2	
Molybdenum	0.0014J	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 16:28	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 16:28	7782-49-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 13:30	03/09/21 11:01	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	168	mg/L	10.0	10.0	1		03/06/21 12:32		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	4.9	mg/L	1.0	0.60	1		03/13/21 19:28	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/13/21 19:28	16984-48-8	
Sulfate	12.0	mg/L	1.0	0.50	1		03/13/21 19:28	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-1D (030321) Lab ID: 92525335016 Collected: 03/03/21 14:25 Received: 03/05/21 09:20 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/08/21 09:07		
pH	7.20	Std. Units			1		03/08/21 09:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	14.1	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 06:18	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/08/21 11:57	03/09/21 17:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 17:01	7440-38-2	
Barium	0.0068	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 17:01	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 17:01	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 17:01	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 17:01	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 17:01	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 17:01	7440-48-4	
Lead	0.000056J	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 17:01	7439-92-1	
Lithium	0.012J	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 17:01	7439-93-2	
Molybdenum	0.0088J	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 17:01	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 17:01	7782-49-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	99.0	mg/L	10.0	10.0	1		03/06/21 13:09		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	0.96J	mg/L	1.0	0.60	1		03/13/21 19:43	16887-00-6	
Fluoride	0.078J	mg/L	0.10	0.050	1		03/13/21 19:43	16984-48-8	
Sulfate	9.0	mg/L	1.0	0.50	1		03/13/21 19:43	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-1I (030321) Lab ID: 92525335017 Collected: 03/03/21 13:35 Received: 03/05/21 09:20 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/08/21 09:07		
pH	5.38	Std. Units			1		03/08/21 09:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	1.8	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 06:23	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/08/21 11:57	03/09/21 17:07	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 17:07	7440-38-2	
Barium	0.0094	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 17:07	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 17:07	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 17:07	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 17:07	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 17:07	7440-47-3	
Cobalt	0.0030J	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 17:07	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 17:07	7439-92-1	
Lithium	0.0025J	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 17:07	7439-93-2	
Molybdenum	0.0049J	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 17:07	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 17:07	7782-49-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	39.0	mg/L	10.0	10.0	1		03/06/21 13:09		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.2	mg/L	1.0	0.60	1		03/13/21 19:59	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/13/21 19:59	16984-48-8	
Sulfate	4.4	mg/L	1.0	0.50	1		03/13/21 19:59	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-2I (030321) **Lab ID: 92525335018** Collected: 03/03/21 11:45 Received: 03/05/21 09:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/08/21 09:07		
pH	7.92	Std. Units			1		03/08/21 09:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	25.6	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 06:28	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/08/21 11:57	03/09/21 17:12	7440-36-0	
Arsenic	0.00098J	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 17:12	7440-38-2	
Barium	0.0041J	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 17:12	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 17:12	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 17:12	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 17:12	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 17:12	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 17:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 17:12	7439-92-1	
Lithium	0.0016J	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 17:12	7439-93-2	
Molybdenum	0.0074J	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 17:12	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 17:12	7782-49-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	138	mg/L	10.0	10.0	1		03/06/21 13:10		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	0.86J	mg/L	1.0	0.60	1		03/13/21 20:14	16887-00-6	
Fluoride	0.085J	mg/L	0.10	0.050	1		03/13/21 20:14	16984-48-8	
Sulfate	10.6	mg/L	1.0	0.50	1		03/13/21 20:14	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-3I (030321) Lab ID: 92525335019 Collected: 03/03/21 17:00 Received: 03/05/21 09:20 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/08/21 09:07		
pH	8.23	Std. Units			1		03/08/21 09:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	20.6	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 06:32	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/08/21 11:57	03/09/21 17:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 17:18	7440-38-2	
Barium	0.0031J	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 17:18	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 17:18	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 17:18	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 17:18	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 17:18	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 17:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 17:18	7439-92-1	
Lithium	0.017J	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 17:18	7439-93-2	
Molybdenum	0.0036J	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 17:18	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 17:18	7782-49-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	111	mg/L	10.0	10.0	1		03/06/21 13:10		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	0.99J	mg/L	1.0	0.60	1		03/13/21 21:00	16887-00-6	
Fluoride	0.10	mg/L	0.10	0.050	1		03/13/21 21:00	16984-48-8	
Sulfate	9.6	mg/L	1.0	0.50	1		03/13/21 21:00	14808-79-8	M1

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-3D (030321) **Lab ID: 92525335020** Collected: 03/03/21 16:00 Received: 03/05/21 09:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
------------	---------	-------	--------------	-----	----	----------	----------	---------	------

Field Data

Analytical Method:
Pace Analytical Services - Charlotte

Performed by	CUSTOMER				1		03/08/21 09:07		
pH	8.39	Std. Units			1		03/08/21 09:07		

6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Peachtree Corners, GA

Calcium	29.8	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 06:47	7440-70-2	
---------	-------------	------	-----	-------	---	----------------	----------------	-----------	--

6020 MET ICPMS

Analytical Method: EPA 6020B Preparation Method: EPA 3005A
Pace Analytical Services - Peachtree Corners, GA

Antimony	ND	mg/L	0.0030	0.00028	1	03/08/21 11:57	03/09/21 17:24	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 17:24	7440-38-2	
Barium	0.0064	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 17:24	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 17:24	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 17:24	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 17:24	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 17:24	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 17:24	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 17:24	7439-92-1	
Lithium	0.024J	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 17:24	7439-93-2	
Molybdenum	0.013	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 17:24	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 17:24	7782-49-2	

2540C Total Dissolved Solids

Analytical Method: SM 2450C-2011
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	137	mg/L	10.0	10.0	1		03/06/21 13:10		
------------------------	------------	------	------	------	---	--	----------------	--	--

300.0 IC Anions 28 Days

Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

Chloride	1.1	mg/L	1.0	0.60	1		03/13/21 22:18	16887-00-6	
Fluoride	0.44	mg/L	0.10	0.050	1		03/13/21 22:18	16984-48-8	
Sulfate	7.0	mg/L	1.0	0.50	1		03/13/21 22:18	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: EB-02 (03032021) Lab ID: 92525335021 Collected: 03/03/21 17:15 Received: 03/05/21 09:20 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	33.3	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 06:52	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/08/21 11:57	03/09/21 17:29	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 17:29	7440-38-2	
Barium	0.023	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 17:29	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 17:29	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 17:29	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 17:29	7440-43-9	
Chromium	0.00057J	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 17:29	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 17:29	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 17:29	7439-92-1	
Lithium	0.0016J	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 17:29	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 17:29	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 17:29	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/08/21 11:57	03/09/21 17:29	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 13:30	03/09/21 11:04	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	102	mg/L	10.0	10.0	1		03/06/21 13:10		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.6	mg/L	1.0	0.60	1		03/13/21 22:33	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/13/21 22:33	16984-48-8	
Sulfate	2.2	mg/L	1.0	0.50	1		03/13/21 22:33	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-4I		Lab ID: 92525335022		Collected: 03/03/21 10:35		Received: 03/05/21 09:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/08/21 09:07		
pH	6.21	Std. Units			1		03/08/21 09:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	7.7	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 06:56	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/08/21 11:57	03/09/21 17:35	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 17:35	7440-38-2	
Barium	0.014	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 17:35	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 17:35	7440-41-7	
Boron	0.0056J	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 17:35	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 17:35	7440-43-9	
Chromium	0.0013J	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 17:35	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 17:35	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 17:35	7439-92-1	
Lithium	0.012J	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 17:35	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 17:35	7439-98-7	
Selenium	0.0019J	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 17:35	7782-49-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 13:30	03/09/21 11:11	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	80.0	mg/L	10.0	10.0	1		03/06/21 13:11		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	4.1	mg/L	1.0	0.60	1		03/13/21 22:49	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/13/21 22:49	16984-48-8	
Sulfate	7.8	mg/L	1.0	0.50	1		03/13/21 22:49	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-20S		Lab ID: 92525335023		Collected: 03/03/21 09:40		Received: 03/05/21 09:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/08/21 09:07		
pH	5.89	Std. Units			1		03/08/21 09:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	2.4	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 07:01	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	03/08/21 11:57	03/09/21 17:56	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 17:56	7440-38-2	
Barium	0.015	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 17:56	7440-39-3	
Beryllium	0.000068J	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 17:56	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 17:56	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 17:56	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 17:56	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 17:56	7440-48-4	
Lead	0.000045J	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 17:56	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 17:56	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 17:56	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 17:56	7782-49-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 13:30	03/09/21 11:13	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	53.0	mg/L	10.0	10.0	1		03/06/21 13:11		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	2.7	mg/L	1.0	0.60	1		03/13/21 23:04	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/13/21 23:04	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/13/21 23:04	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-211		Lab ID: 92525335024		Collected: 03/04/21 09:35		Received: 03/05/21 09:20		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		03/08/21 09:07		
pH	6.80	Std. Units			1		03/08/21 09:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	8.7	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 07:06	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0014J	mg/L	0.0030	0.00028	1	03/08/21 11:57	03/09/21 18:02	7440-36-0	
Arsenic	0.00078J	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 18:02	7440-38-2	
Barium	0.011	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 18:02	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 18:02	7440-41-7	
Boron	0.0079J	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 18:02	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 18:02	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 18:02	7440-47-3	
Cobalt	0.0065	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 18:02	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 18:02	7439-92-1	
Lithium	0.0062J	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 18:02	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 18:02	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 18:02	7782-49-2	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 13:30	03/09/21 11:16	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	110	mg/L	10.0	10.0	1		03/06/21 12:32		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.8	mg/L	1.0	0.60	1		03/13/21 23:20	16887-00-6	
Fluoride	0.091J	mg/L	0.10	0.050	1		03/13/21 23:20	16984-48-8	
Sulfate	4.5	mg/L	1.0	0.50	1		03/13/21 23:20	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

QC Batch: 604223 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525335001, 92525335002, 92525335003, 92525335005, 92525335006, 92525335007, 92525335008, 92525335009

METHOD BLANK: 3183140 Matrix: Water
Associated Lab Samples: 92525335001, 92525335002, 92525335003, 92525335005, 92525335006, 92525335007, 92525335008, 92525335009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	03/09/21 01:57	

LABORATORY CONTROL SAMPLE: 3183141

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3183142 3183143

Parameter	Units	3183142		3183143		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92525335001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Calcium	mg/L	2.6	1	1	3.6	3.5	105	94	75-125	3	20	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

QC Batch:	604893	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92525335011, 92525335012, 92525335013, 92525335014, 92525335015, 92525335016, 92525335017, 92525335018, 92525335019, 92525335020, 92525335021, 92525335022, 92525335023, 92525335024

METHOD BLANK: 3186898 Matrix: Water
Associated Lab Samples: 92525335011, 92525335012, 92525335013, 92525335014, 92525335015, 92525335016, 92525335017, 92525335018, 92525335019, 92525335020, 92525335021, 92525335022, 92525335023, 92525335024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	03/10/21 05:19	

LABORATORY CONTROL SAMPLE: 3186899

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.98J	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3186900 3186901

Parameter	Units	92525335011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	4.6	1	1	5.5	5.4	92	76	75-125	3	20	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

QC Batch: 604224 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525335001, 92525335002, 92525335003, 92525335005, 92525335006, 92525335007, 92525335008, 92525335009

METHOD BLANK: 3183148 Matrix: Water
Associated Lab Samples: 92525335001, 92525335002, 92525335003, 92525335005, 92525335006, 92525335007, 92525335008, 92525335009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	03/05/21 16:31	
Arsenic	mg/L	ND	0.0050	0.00078	03/05/21 16:31	
Barium	mg/L	ND	0.0050	0.00071	03/05/21 16:31	
Beryllium	mg/L	ND	0.00050	0.000046	03/05/21 16:31	
Boron	mg/L	ND	0.040	0.0052	03/05/21 16:31	
Cadmium	mg/L	ND	0.00050	0.00012	03/05/21 16:31	
Chromium	mg/L	ND	0.0050	0.00055	03/05/21 16:31	
Cobalt	mg/L	ND	0.0050	0.00038	03/05/21 16:31	
Lead	mg/L	ND	0.0010	0.000036	03/05/21 16:31	
Lithium	mg/L	ND	0.030	0.00081	03/05/21 16:31	
Molybdenum	mg/L	ND	0.010	0.00069	03/05/21 16:31	
Selenium	mg/L	ND	0.0050	0.0016	03/05/21 16:31	

LABORATORY CONTROL SAMPLE: 3183149

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	104	80-120	
Arsenic	mg/L	0.1	0.096	96	80-120	
Barium	mg/L	0.1	0.096	96	80-120	
Beryllium	mg/L	0.1	0.095	95	80-120	
Boron	mg/L	1	0.91	91	80-120	
Cadmium	mg/L	0.1	0.096	96	80-120	
Chromium	mg/L	0.1	0.096	96	80-120	
Cobalt	mg/L	0.1	0.096	96	80-120	
Lead	mg/L	0.1	0.097	97	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3183150 3183151

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Spike Conc.	Result	Result								
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	105	106	75-125	1	20		
Arsenic	mg/L	ND	0.1	0.1	0.096	0.093	96	93	75-125	3	20		
Barium	mg/L	0.014	0.1	0.1	0.11	0.11	96	99	75-125	2	20		

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3183150												3183151											
Parameter	Units	92525335002		MS		MSD		MS		MSD		% Rec		Max									
		Result	Conc.	Spike	Conc.	Result	Conc.	Result	Conc.	% Rec	% Rec	Limits	RPD	RPD	Qual								
Beryllium	mg/L	ND	0.1	0.1	0.1	0.1	0.095	0.093	95	93	75-125	2	20										
Boron	mg/L	0.0068J	1	1	1	1	0.96	0.96	96	96	75-125	0	20										
Cadmium	mg/L	ND	0.1	0.1	0.1	0.1	0.096	0.096	96	96	75-125	1	20										
Chromium	mg/L	ND	0.1	0.1	0.1	0.1	0.10	0.098	99	98	75-125	1	20										
Cobalt	mg/L	ND	0.1	0.1	0.1	0.1	0.099	0.097	99	97	75-125	2	20										
Lead	mg/L	0.000051J	0.1	0.1	0.1	0.1	0.098	0.095	98	95	75-125	3	20										
Lithium	mg/L	0.0018J	0.1	0.1	0.1	0.1	0.10	0.097	98	95	75-125	3	20										
Molybdenum	mg/L	ND	0.1	0.1	0.1	0.1	0.10	0.10	100	101	75-125	0	20										
Selenium	mg/L	ND	0.1	0.1	0.1	0.1	0.094	0.092	94	92	75-125	2	20										

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

QC Batch: 604916 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525335011, 92525335012, 92525335013, 92525335014, 92525335015, 92525335016, 92525335017, 92525335018, 92525335019, 92525335020, 92525335021, 92525335022, 92525335023, 92525335024

METHOD BLANK: 3187128 Matrix: Water
Associated Lab Samples: 92525335011, 92525335012, 92525335013, 92525335014, 92525335015, 92525335016, 92525335017, 92525335018, 92525335019, 92525335020, 92525335021, 92525335022, 92525335023, 92525335024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	03/09/21 15:37	
Arsenic	mg/L	ND	0.0050	0.00078	03/09/21 15:37	
Barium	mg/L	ND	0.0050	0.00071	03/09/21 15:37	
Beryllium	mg/L	ND	0.00050	0.000046	03/09/21 15:37	
Boron	mg/L	ND	0.040	0.0052	03/09/21 15:37	
Cadmium	mg/L	ND	0.00050	0.00012	03/09/21 15:37	
Chromium	mg/L	ND	0.0050	0.00055	03/09/21 15:37	
Cobalt	mg/L	ND	0.0050	0.00038	03/09/21 15:37	
Lead	mg/L	ND	0.0010	0.000036	03/09/21 15:37	
Lithium	mg/L	ND	0.030	0.00081	03/09/21 15:37	
Molybdenum	mg/L	ND	0.010	0.00069	03/09/21 15:37	
Selenium	mg/L	ND	0.0050	0.0016	03/09/21 15:37	
Thallium	mg/L	ND	0.0010	0.00014	03/09/21 15:37	

LABORATORY CONTROL SAMPLE: 3187129

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.097	97	80-120	
Arsenic	mg/L	0.1	0.093	93	80-120	
Barium	mg/L	0.1	0.094	94	80-120	
Beryllium	mg/L	0.1	0.098	98	80-120	
Boron	mg/L	1	1.0	104	80-120	
Cadmium	mg/L	0.1	0.095	95	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.10	100	80-120	
Lead	mg/L	0.1	0.096	96	80-120	
Lithium	mg/L	0.1	0.10	104	80-120	
Molybdenum	mg/L	0.1	0.094	94	80-120	
Selenium	mg/L	0.1	0.091	91	80-120	
Thallium	mg/L	0.1	0.092	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3187130 3187131

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92525335012 Result	Spike Conc.	Spike Conc.	MS Result						
Antimony	mg/L	ND	0.1	0.1	0.094	0.096	94	96	75-125	1	20

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3187130 3187131												
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92525335012 Result	Spike Conc.	Spike Conc.	MS Result							
Arsenic	mg/L	ND	0.1	0.1	0.092	0.092	92	92	75-125	0	20	
Barium	mg/L	0.017	0.1	0.1	0.11	0.11	90	94	75-125	3	20	
Beryllium	mg/L	0.000099J	0.1	0.1	0.093	0.095	93	95	75-125	3	20	
Boron	mg/L	0.010J	1	1	0.98	0.99	97	98	75-125	2	20	
Cadmium	mg/L	ND	0.1	0.1	0.095	0.096	95	96	75-125	1	20	
Chromium	mg/L	0.00082J	0.1	0.1	0.098	0.098	97	97	75-125	0	20	
Cobalt	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	0	20	
Lead	mg/L	ND	0.1	0.1	0.092	0.091	92	91	75-125	1	20	
Lithium	mg/L	ND	0.1	0.1	0.098	0.10	97	100	75-125	3	20	
Molybdenum	mg/L	ND	0.1	0.1	0.092	0.091	92	91	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.089	0.087	88	86	75-125	2	20	
Thallium	mg/L	ND	0.1	0.1	0.089	0.090	89	90	75-125	1	20	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

QC Batch: 604308 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525335001, 92525335002, 92525335003, 92525335007, 92525335008, 92525335009

METHOD BLANK: 3183676 Matrix: Water
Associated Lab Samples: 92525335001, 92525335002, 92525335003, 92525335007, 92525335008, 92525335009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	03/05/21 10:07	

LABORATORY CONTROL SAMPLE: 3183677

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0023	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3183678 3183679

Parameter	Units	92524632013		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Mercury	mg/L	ND	0.0025	0.0025	0.0026	0.0026	102	102	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.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

QC Batch:	604928	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92525335011, 92525335012, 92525335013, 92525335014, 92525335015, 92525335021, 92525335022, 92525335023, 92525335024

METHOD BLANK: 3187260 Matrix: Water
Associated Lab Samples: 92525335011, 92525335012, 92525335013, 92525335014, 92525335015, 92525335021, 92525335022, 92525335023, 92525335024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	03/09/21 10:42	

LABORATORY CONTROL SAMPLE: 3187261

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3187262 3187263

Parameter	Units	3187262		3187263		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Mercury	mg/L	ND	0.0025	0.0025	0.0023	0.0019	93	78	75-125	18	20	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

QC Batch: 604206	Analysis Method: SM 2450C-2011
QC Batch Method: SM 2450C-2011	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92525335006

METHOD BLANK: 3183000 Matrix: Water
Associated Lab Samples: 92525335006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/04/21 10:17	

LABORATORY CONTROL SAMPLE: 3183001

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	387	97	90-111	

SAMPLE DUPLICATE: 3183002

Parameter	Units	92525485001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	84.0	85.0	1	10	

SAMPLE DUPLICATE: 3183003

Parameter	Units	92525335006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	23.0	41.0	56	10	D6

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

QC Batch: 604300 Analysis Method: SM 2450C-2011
QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525335001, 92525335002, 92525335003, 92525335005

METHOD BLANK: 3183609 Matrix: Water
Associated Lab Samples: 92525335001, 92525335002, 92525335003, 92525335005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/04/21 14:27	

LABORATORY CONTROL SAMPLE: 3183610

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	394	98	90-111	

SAMPLE DUPLICATE: 3183611

Parameter	Units	92525102001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	175	171	2	10	

SAMPLE DUPLICATE: 3183612

Parameter	Units	92524831010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	513	520	1	10	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

QC Batch: 604527 Analysis Method: SM 2450C-2011
QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525335007, 92525335008, 92525335009

METHOD BLANK: 3184654 Matrix: Water
Associated Lab Samples: 92525335007, 92525335008, 92525335009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/05/21 11:03	

LABORATORY CONTROL SAMPLE: 3184655

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	375	94	90-111	

SAMPLE DUPLICATE: 3184656

Parameter	Units	92525799001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2090	1960	6	10	

SAMPLE DUPLICATE: 3184657

Parameter	Units	92525341004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	167	152	9	10	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

QC Batch: 604626 Analysis Method: SM 2450C-2011
QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92525335012, 92525335013

METHOD BLANK: 3185317 Matrix: Water

Associated Lab Samples: 92525335012, 92525335013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/05/21 15:33	

LABORATORY CONTROL SAMPLE: 3185318

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	390	98	90-111	

SAMPLE DUPLICATE: 3185319

Parameter	Units	92525822001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	274	290	6	10	

SAMPLE DUPLICATE: 3185328

Parameter	Units	92524831016 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	325	354	9	10	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

QC Batch: 604764 Analysis Method: SM 2450C-2011
QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525335014, 92525335016, 92525335017, 92525335018, 92525335019, 92525335020, 92525335021, 92525335022, 92525335023

METHOD BLANK: 3186295 Matrix: Water
Associated Lab Samples: 92525335014, 92525335016, 92525335017, 92525335018, 92525335019, 92525335020, 92525335021, 92525335022, 92525335023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/06/21 13:06	

LABORATORY CONTROL SAMPLE: 3186296

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	368	92	90-111	

SAMPLE DUPLICATE: 3186298

Parameter	Units	92525335021 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	102	101	1	10	

SAMPLE DUPLICATE: 3186336

Parameter	Units	92525919008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	267	283	6	10	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

QC Batch: 604765 Analysis Method: SM 2450C-2011
QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525335011, 92525335015, 92525335024

METHOD BLANK: 3186310 Matrix: Water
Associated Lab Samples: 92525335011, 92525335015, 92525335024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/06/21 12:29	

LABORATORY CONTROL SAMPLE: 3186311

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	371	93	90-111	

SAMPLE DUPLICATE: 3186312

Parameter	Units	92525346009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	217	220	1	10	

SAMPLE DUPLICATE: 3186313

Parameter	Units	92525824003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	45.0	61.0	30	10	D6

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

QC Batch:	604544	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: 92525335001, 92525335002, 92525335003, 92525335005, 92525335006, 92525335007, 92525335008, 92525335009

METHOD BLANK: 3184710 Matrix: Water
Associated Lab Samples: 92525335001, 92525335002, 92525335003, 92525335005, 92525335006, 92525335007, 92525335008, 92525335009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/06/21 20:08	
Fluoride	mg/L	ND	0.10	0.050	03/06/21 20:08	
Sulfate	mg/L	ND	1.0	0.50	03/06/21 20:08	

LABORATORY CONTROL SAMPLE: 3184711

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.3	97	90-110	
Fluoride	mg/L	2.5	2.5	98	90-110	
Sulfate	mg/L	50	48.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3184712 3184713

Parameter	Units	92525335001		3184713		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	4.3	50	50	53.4	53.9	98	99	90-110	1	10
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	104	105	90-110	1	10
Sulfate	mg/L	2.3	50	50	51.8	52.4	99	100	90-110	1	10

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3184714 3184715

Parameter	Units	92525341001		3184715		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	5.5	50	50	54.6	54.8	98	98	90-110	0	10
Fluoride	mg/L	0.18	2.5	2.5	3.3	3.3	124	125	90-110	1	10 M1
Sulfate	mg/L	94.2	50	50	135	135	81	82	90-110	0	10 M1

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

QC Batch:	606455	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: 92525335011, 92525335012, 92525335013, 92525335014, 92525335015, 92525335016, 92525335017, 92525335018

METHOD BLANK: 3195134 Matrix: Water
Associated Lab Samples: 92525335011, 92525335012, 92525335013, 92525335014, 92525335015, 92525335016, 92525335017, 92525335018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/13/21 12:45	
Fluoride	mg/L	ND	0.10	0.050	03/13/21 12:45	
Sulfate	mg/L	ND	1.0	0.50	03/13/21 12:45	

LABORATORY CONTROL SAMPLE: 3195135

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.8	100	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	50	52.8	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195136 3195137

Parameter	Units	92525912007		3195137		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	ND	50	50.5	51.0	101	102	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	102	103	90-110	1	10	
Sulfate	mg/L	ND	50	53.6	54.2	107	108	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195138 3195139

Parameter	Units	92525919009		3195139		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	1.6	50	54.1	53.7	105	104	90-110	1	10	
Fluoride	mg/L	0.12	2.5	2.8	2.8	106	105	90-110	1	10	
Sulfate	mg/L	39.2	50	95.4	95.1	112	112	90-110	0	10 M1	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

QC Batch: 606456 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: 92525335019, 92525335020, 92525335021, 92525335022, 92525335023, 92525335024

METHOD BLANK: 3195140 Matrix: Water
Associated Lab Samples: 92525335019, 92525335020, 92525335021, 92525335022, 92525335023, 92525335024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/13/21 20:29	
Fluoride	mg/L	ND	0.10	0.050	03/13/21 20:29	
Sulfate	mg/L	ND	1.0	0.50	03/13/21 20:29	

LABORATORY CONTROL SAMPLE: 3195141

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.5	97	90-110	
Fluoride	mg/L	2.5	2.5	100	90-110	
Sulfate	mg/L	50	51.4	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195142 3195143

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92525335019	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	0.99J	50	50	52.8	52.3	104	103	90-110	1	10		
Fluoride	mg/L	0.10	2.5	2.5	2.7	2.7	106	104	90-110	2	10		
Sulfate	mg/L	9.6	50	50	65.5	64.7	112	110	90-110	1	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195144 3195145

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92525346005	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	16.6	50	50	66.4	68.7	100	104	90-110	3	10		
Fluoride	mg/L	ND	2.5	2.5	2.5	2.6	98	103	90-110	5	10		
Sulfate	mg/L	88.8	50	50	115	117	53	56	90-110	1	10	M1	

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: YATES
Pace Project No.: 92525335

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.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES
Pace Project No.: 92525335

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525335001	YGWA-5I				
92525335002	YGWA-5D				
92525335005	YGWA-14S				
92525335006	YGWA-30I				
92525335011	YGWA-40				
92525335012	YGWA-17S				
92525335013	YGWA-18S				
92525335014	YGWA-18I				
92525335015	YGWA-39				
92525335016	YGWA-1D (030321)				
92525335017	YGWA-1I (030321)				
92525335018	YGWA-2I (030321)				
92525335019	YGWA-3I (030321)				
92525335020	YGWA-3D (030321)				
92525335022	YGWA-4I				
92525335023	YGWA-20S				
92525335024	YGWA-21I				
92525335001	YGWA-5I	EPA 3010A	604223	EPA 6010D	604309
92525335002	YGWA-5D	EPA 3010A	604223	EPA 6010D	604309
92525335003	DUP-1	EPA 3010A	604223	EPA 6010D	604309
92525335005	YGWA-14S	EPA 3010A	604223	EPA 6010D	604309
92525335006	YGWA-30I	EPA 3010A	604223	EPA 6010D	604309
92525335007	FB-01	EPA 3010A	604223	EPA 6010D	604309
92525335008	DUP-01	EPA 3010A	604223	EPA 6010D	604309
92525335009	FB-01	EPA 3010A	604223	EPA 6010D	604309
92525335011	YGWA-40	EPA 3010A	604893	EPA 6010D	604969
92525335012	YGWA-17S	EPA 3010A	604893	EPA 6010D	604969
92525335013	YGWA-18S	EPA 3010A	604893	EPA 6010D	604969
92525335014	YGWA-18I	EPA 3010A	604893	EPA 6010D	604969
92525335015	YGWA-39	EPA 3010A	604893	EPA 6010D	604969
92525335016	YGWA-1D (030321)	EPA 3010A	604893	EPA 6010D	604969
92525335017	YGWA-1I (030321)	EPA 3010A	604893	EPA 6010D	604969
92525335018	YGWA-2I (030321)	EPA 3010A	604893	EPA 6010D	604969
92525335019	YGWA-3I (030321)	EPA 3010A	604893	EPA 6010D	604969
92525335020	YGWA-3D (030321)	EPA 3010A	604893	EPA 6010D	604969
92525335021	EB-02 (03032021)	EPA 3010A	604893	EPA 6010D	604969
92525335022	YGWA-4I	EPA 3010A	604893	EPA 6010D	604969
92525335023	YGWA-20S	EPA 3010A	604893	EPA 6010D	604969
92525335024	YGWA-21I	EPA 3010A	604893	EPA 6010D	604969
92525335001	YGWA-5I	EPA 3005A	604224	EPA 6020B	604329
92525335002	YGWA-5D	EPA 3005A	604224	EPA 6020B	604329
92525335003	DUP-1	EPA 3005A	604224	EPA 6020B	604329
92525335005	YGWA-14S	EPA 3005A	604224	EPA 6020B	604329
92525335006	YGWA-30I	EPA 3005A	604224	EPA 6020B	604329
92525335007	FB-01	EPA 3005A	604224	EPA 6020B	604329
92525335008	DUP-01	EPA 3005A	604224	EPA 6020B	604329
92525335009	FB-01	EPA 3005A	604224	EPA 6020B	604329

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES
Pace Project No.: 92525335

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525335011	YGWA-40	EPA 3005A	604916	EPA 6020B	605023
92525335012	YGWA-17S	EPA 3005A	604916	EPA 6020B	605023
92525335013	YGWA-18S	EPA 3005A	604916	EPA 6020B	605023
92525335014	YGWA-18I	EPA 3005A	604916	EPA 6020B	605023
92525335015	YGWA-39	EPA 3005A	604916	EPA 6020B	605023
92525335016	YGWA-1D (030321)	EPA 3005A	604916	EPA 6020B	605023
92525335017	YGWA-1I (030321)	EPA 3005A	604916	EPA 6020B	605023
92525335018	YGWA-2I (030321)	EPA 3005A	604916	EPA 6020B	605023
92525335019	YGWA-3I (030321)	EPA 3005A	604916	EPA 6020B	605023
92525335020	YGWA-3D (030321)	EPA 3005A	604916	EPA 6020B	605023
92525335021	EB-02 (03032021)	EPA 3005A	604916	EPA 6020B	605023
92525335022	YGWA-4I	EPA 3005A	604916	EPA 6020B	605023
92525335023	YGWA-20S	EPA 3005A	604916	EPA 6020B	605023
92525335024	YGWA-21I	EPA 3005A	604916	EPA 6020B	605023
92525335001	YGWA-5I	EPA 7470A	604308	EPA 7470A	604504
92525335002	YGWA-5D	EPA 7470A	604308	EPA 7470A	604504
92525335003	DUP-1	EPA 7470A	604308	EPA 7470A	604504
92525335007	FB-01	EPA 7470A	604308	EPA 7470A	604504
92525335008	DUP-01	EPA 7470A	604308	EPA 7470A	604504
92525335009	FB-01	EPA 7470A	604308	EPA 7470A	604504
92525335011	YGWA-40	EPA 7470A	604928	EPA 7470A	605029
92525335012	YGWA-17S	EPA 7470A	604928	EPA 7470A	605029
92525335013	YGWA-18S	EPA 7470A	604928	EPA 7470A	605029
92525335014	YGWA-18I	EPA 7470A	604928	EPA 7470A	605029
92525335015	YGWA-39	EPA 7470A	604928	EPA 7470A	605029
92525335021	EB-02 (03032021)	EPA 7470A	604928	EPA 7470A	605029
92525335022	YGWA-4I	EPA 7470A	604928	EPA 7470A	605029
92525335023	YGWA-20S	EPA 7470A	604928	EPA 7470A	605029
92525335024	YGWA-21I	EPA 7470A	604928	EPA 7470A	605029
92525335001	YGWA-5I	SM 2450C-2011	604300		
92525335002	YGWA-5D	SM 2450C-2011	604300		
92525335003	DUP-1	SM 2450C-2011	604300		
92525335005	YGWA-14S	SM 2450C-2011	604300		
92525335006	YGWA-30I	SM 2450C-2011	604206		
92525335007	FB-01	SM 2450C-2011	604527		
92525335008	DUP-01	SM 2450C-2011	604527		
92525335009	FB-01	SM 2450C-2011	604527		
92525335011	YGWA-40	SM 2450C-2011	604765		
92525335012	YGWA-17S	SM 2450C-2011	604626		
92525335013	YGWA-18S	SM 2450C-2011	604626		
92525335014	YGWA-18I	SM 2450C-2011	604764		
92525335015	YGWA-39	SM 2450C-2011	604765		
92525335016	YGWA-1D (030321)	SM 2450C-2011	604764		
92525335017	YGWA-1I (030321)	SM 2450C-2011	604764		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES
Pace Project No.: 92525335

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525335018	YGWA-2I (030321)	SM 2450C-2011	604764		
92525335019	YGWA-3I (030321)	SM 2450C-2011	604764		
92525335020	YGWA-3D (030321)	SM 2450C-2011	604764		
92525335021	EB-02 (03032021)	SM 2450C-2011	604764		
92525335022	YGWA-4I	SM 2450C-2011	604764		
92525335023	YGWA-20S	SM 2450C-2011	604764		
92525335024	YGWA-21I	SM 2450C-2011	604765		
92525335001	YGWA-5I	EPA 300.0 Rev 2.1 1993	604544		
92525335002	YGWA-5D	EPA 300.0 Rev 2.1 1993	604544		
92525335003	DUP-1	EPA 300.0 Rev 2.1 1993	604544		
92525335005	YGWA-14S	EPA 300.0 Rev 2.1 1993	604544		
92525335006	YGWA-30I	EPA 300.0 Rev 2.1 1993	604544		
92525335007	FB-01	EPA 300.0 Rev 2.1 1993	604544		
92525335008	DUP-01	EPA 300.0 Rev 2.1 1993	604544		
92525335009	FB-01	EPA 300.0 Rev 2.1 1993	604544		
92525335011	YGWA-40	EPA 300.0 Rev 2.1 1993	606455		
92525335012	YGWA-17S	EPA 300.0 Rev 2.1 1993	606455		
92525335013	YGWA-18S	EPA 300.0 Rev 2.1 1993	606455		
92525335014	YGWA-18I	EPA 300.0 Rev 2.1 1993	606455		
92525335015	YGWA-39	EPA 300.0 Rev 2.1 1993	606455		
92525335016	YGWA-1D (030321)	EPA 300.0 Rev 2.1 1993	606455		
92525335017	YGWA-1I (030321)	EPA 300.0 Rev 2.1 1993	606455		
92525335018	YGWA-2I (030321)	EPA 300.0 Rev 2.1 1993	606455		
92525335019	YGWA-3I (030321)	EPA 300.0 Rev 2.1 1993	606456		
92525335020	YGWA-3D (030321)	EPA 300.0 Rev 2.1 1993	606456		
92525335021	EB-02 (03032021)	EPA 300.0 Rev 2.1 1993	606456		
92525335022	YGWA-4I	EPA 300.0 Rev 2.1 1993	606456		
92525335023	YGWA-20S	EPA 300.0 Rev 2.1 1993	606456		
92525335024	YGWA-21I	EPA 300.0 Rev 2.1 1993	606456		

REPORT OF LABORATORY ANALYSIS

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



Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 1 of 2
Document No.: F-CAR-CS-033-Rev.07	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Georgia power

Project #:

WO#: 92525335

Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____



92525335

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *MT 3/3/20*

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Thermometer: IR Gun ID: 230 Type of Ice: Wet Blue None

Yes No N/A

Cooler Temp: 4.0 Correction Factor: Add/Subtract (°C) +0

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.0

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

Yes No

		Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <i>w T</i>		
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



Document Name:
Sample Condition Upon Receipt(SCUR)
 Document No.:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020
 Page 2 of 2
 Issuing Authority:
 Pare Carolinas Quality Office

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

Project #

WO# : 92525335

PM: KLH1

Due Date: 03/16/21

CLIENT: GA-GA Power

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

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

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 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)	BP3A-250 mL Plastic (NH2)2SO4 (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)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Client Information:

Section B
Required Project Information:

Section C
Invoice Information:

Client Information:

Company: Georgia Power
Address: 1070 Bridge Mill Ave
City: Marietta, GA 30066
Phone: (770) 384-6326
Fax: [blank]
Requested Date: [blank]

Section B - Required Project Information:

Report To: Becky Steever
Copy To: [blank]
Purchase Order #: [blank]
Project Name: Yates AAA
Project #: [blank]

Section C - Invoice Information:

Attention: [blank]
Company Name: [blank]
Address: [blank]
Phone: [blank]
Fax: [blank]
Project Manager: Kevin.Hentley@pacelabs.com
Pace Profile #: 10840

Regulatory Agency: [blank]
Site Location: [blank]

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analytes Test	Regulated Analytes Filtered (Y/N)	Residual Chlorine (Y/N)	SAMPLER COMMENTS	DATE	TIME	DATE	TIME	TEMP in C	SAMPLER CONDITIONS			
			START DATE	START TIME													END DATE	END TIME	Received on Ice (Y/N)	Custody Sealed (Y/N)
1	YGWA-181	WT				Unpreserved	H2SO4 HNO3 HC1 NaOH Na2S2O3 Methanol Other	TDS Cl, F, SO4 App III/IV Metals RAD 6316/6320								41.0				
2	YGWA-181	WT																		
3	YGWA-181	WT																		
4	YGWA-181	WT																		
5	YGWA-181	WT																		
6	YGWA-181	WT																		
7	YGWA-181	WT																		
8	YGWA-181	WT																		
9	YGWA-181	WT																		
10	YGWA-181	WT																		
11	YGWA-181	WT																		
12	YGWA-181	WT																		

ADDITIONAL COMMENTS:

REQUISITION BY/DATE:

ACCEPTED BY/DATE:

SAMPLER NAME AND SOLUTION:

PRINT NAME OF SAMPLER: Peter Argyros

SIGNATURE OF SAMPLER: [Signature]

DATE SIGNED: 03/02/2021

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A		Section B		Section C	
Client Information:	Required Project Information:	Invoice Information:	Registry/Agency:	Page: 2 of 4	Code: 1-06
Company: Georgia Power	Report To: Betty Steiner	Attention:	Company Name:	Registry/Agency:	Code: 1-06
Address: 1070 Bridge Mill Ave Canton, GA 30114	Copy To:	Address:	Company Name:	Registry/Agency:	Code: 1-06
Phone: (770) 384-6526	Project Name: Yates Area Up Gradient	Phone Order #:	Company Name:	Registry/Agency:	Code: 1-06
Fax:	Project Name: Yates Area Up Gradient	Project Name: Yates Area Up Gradient	Company Name:	Registry/Agency:	Code: 1-06
Requested Due Date:	Project #:	Project #:	Company Name:	Registry/Agency:	Code: 1-06

ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analytes Test	Requested Analyte Related (Y/N)	Residual Chlorine (Y/N)				
				START TIME	END TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				Other	TDS	Cl, F, SO4	App III/IV Metals
1	YGWA-47	WT	3/1	1210		51	1														
2	YGWA-48	WT																			
3	YGWA-49	WT																			
4	YGWA-50	WT																			
5	YGWA-51	WT																			
6	YGWA-52	WT																			
7	YGWA-53	WT																			
8	YGWA-54	WT																			
9	YGWA-55	WT																			
10	YGWA-56	WT																			

RECEIVED BY / INITIALED	DATE	TIME	ACCEPTED BY / INITIALED	DATE	TIME	TEMP In C	Received on Ice (Y/N)	Custody Sealed/ Cooler (Y/N)	Samples Intact (Y/N)
[Signature]	3/2/21	1730	[Signature]	3/2/21	1730	4.8	Y	N	Y
[Signature]	3/2/21	1530	[Signature]	3/2/21	1530				

SAMPLER NAME AND SIGNATURE	DATE SIGNED
PRINT Name of SAMPLER: <i>Rita Proyakis</i>	DATE SIGNED: <i>03/02/2021</i>
SIGNATURE of SAMPLER: <i>[Signature]</i>	

TEMP In C	Received on Ice (Y/N)	Custody Sealed/ Cooler (Y/N)	Samples Intact (Y/N)
4.8	Y	N	Y



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: **3** of **4**
 CCE 1-06

Client Information:
 Company: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: Dalton, GA 30114
 Phone: (770) 394-6626
 Fax: [Blank]
 Requested Due Date: [Blank]

Project Information:
 Report To: Becky Steever
 Copy To: [Blank]
 Project Name: Yates Reservoir
 Project #: [Blank]

Invoice Information:
 Attention: [Blank]
 Company Name: [Blank]
 Address: [Blank]
 POC Project Manager: Kevin Hemming
 POC Profile #: 10840
 Regulatory Agency: State / Location: GA

Section B: Required Project Information:
 Purchase Order #: [Blank]

MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analyse Test	TDS	Cl, F, SO4	App III/IV Metals	RAD 8316/8320	Residual Chlorine (Y/N)
		START DATE	END DATE									

MATRIX	WT	DATE	TIME	DATE	TIME	UNPRESERVED	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	TDS	Cl, F, SO4	App III/IV Metals	RAD 8316/8320	Residual Chlorine (Y/N)
YQWA-14S	WT	3/2	1120											X	X	X	X	
YQWA-301	WT	3/2	1205											X	X	X	X	
YQWA-301	WT	3/2	1135											X	X	X	X	
YQWA-301	WT	3/2	---											X	X	X	X	
YQWA-301	WT	3/2	---											X	X	X	X	

ADDITIONAL COMMENTS:
 RELINQUISHED BY / AFFILIATION: [Signature]
 DATE: 3/22/21
 TIME: 17:30
 ACCEPTED BY / AFFILIATION: [Signature]
 DATE: 3/22/21
 TIME: 17:30

TEMP In C: 4.0

SAMPLE CONDITIONS:
 Received on Ice (Y/N)
 Custody Sealed (Y/N)
 Cooler (Y/N)
 Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE:
 PRINT Name of SAMPLER: KOSTEL, KYLE
 SIGNATURE OF SAMPLER: [Signature]
 DATE signed: 3/22/2021



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 2 of 4

COE 1 (updated)

Section A
 Client Information:

Company: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: GA 30114
 Phone: 770/384-6526
 Fax:

Section B
 Required Project Information:

Report To: Becky Steever
 Copy To:
 Purchase Order #:
 Project Name: Yates Gypsum - Up Grad.
 Project #:

Section C
 Invoice Information:

Attention:
 Company Name:
 Address:
 Page Quote:
 Pace Project Manager: kevin.herring@paceanalytical.com
 Pace Profile #: 10940

SAMPLE ID
 One Character per box.
 (A-Z, 0-9, /, -)
 Sample IDs must be unique

MATRIX CODE (see valid codes to left)
 SAMPLE TYPE (G=GRAB C=COMP)

SAMPLER	MATRIX CODE	SAMPLE TYPE	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyses Test	Requested Analyte Returned (Y/N)	Residual Chlorine (Y/N)				
			DATE	TIME			DATE	TIME	Unpreserved	H2SO4	HNO3	HCl	NaOH				Na2S2O3	Methanol	Other	TDS
WB-01	WT	WT	3/2	1520	5	✓														
GWA-2	WT	WT	3/2	1510	15	✓														
GW60-R	WT																			
GW60-T	WT																			
GW60-LB	WT																			
GW60-LR	WT																			
GW60-LB	WT																			
GW60-LR	WT																			

ADDITIONAL COMMENTS	REQUISITIONED BY/AFFILIATION	DATE	TIME	ACCEPTED BY/AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	<i>[Signature]</i>	3/22	1520	<i>[Signature]</i>	3/22	1520	Temp in C: 4.0 Received on Ice: Y Custody Sealed: N Cooler: Y Samples Intact: Y
	<i>[Signature]</i>	3/22	1738	<i>[Signature]</i>	3/22	1730	Temp in C: Received on Ice: Custody Sealed: Cooler: Samples Intact:

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Becky Steever
 SIGNATURE OF SAMPLER: *[Signature]* DATE signed: 3/22/21

March 28, 2021

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

RE: Project: YATES RADS
Pace Project No.: 92525896

Dear Ms. Petty:

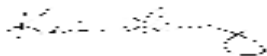
Enclosed are the analytical results for sample(s) received by the laboratory on March 05, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise 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,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Samantha Thomas
Maribel Vital



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: YATES RADS
Pace Project No.: 92525896

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 #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE SUMMARY

Project: YATES RADS

Pace Project No.: 92525896

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92525896001	YGWC-24SA	Water	03/03/21 11:50	03/05/21 09:20
92525896002	YGWC-36A	Water	03/04/21 12:35	03/05/21 09:20
92525896003	DUP-2	Water	03/03/21 00:00	03/05/21 09:20
92525896004	YGWC-23S	Water	03/04/21 12:15	03/05/21 09:20
92525896005	YGWC-41	Water	03/04/21 09:00	03/05/21 09:20
92525896006	YGWC-43	Water	03/04/21 14:50	03/05/21 09:20
92525896007	FB-1	Water	03/04/21 14:00	03/05/21 09:20
92525896008	EB-2	Water	03/04/21 16:35	03/05/21 09:20
92525896009	YGWC-49	Water	03/04/21 14:51	03/05/21 09:20
92525896010	FB-02	Water	03/04/21 15:00	03/05/21 09:20
92525896011	YGWC-42	Water	03/04/21 08:45	03/05/21 09:20
92525896012	YGWC-38	Water	03/04/21 13:45	03/05/21 09:20

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE ANALYTE COUNT

Project: YATES RADS
Pace Project No.: 92525896

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92525896001	YGWC-24SA	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525896002	YGWC-36A	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525896003	DUP-2	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525896004	YGWC-23S	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525896005	YGWC-41	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525896006	YGWC-43	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525896007	FB-1	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525896008	EB-2	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525896009	YGWC-49	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525896010	FB-02	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525896011	YGWC-42	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525896012	YGWC-38	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE ANALYTE COUNT

Project: YATES RADS

Pace Project No.: 92525896

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
--------	-----------	--------	----------	-------------------	------------

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SUMMARY OF DETECTION

Project: YATES RADS
Pace Project No.: 92525896

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525896001	YGWC-24SA					
EPA 9315	Radium-226	0.139 ± 0.138 (0.275)	pCi/L		03/25/21 09:48	
EPA 9320	Radium-228	C:85% T:NA 0.276 ± 0.454 (0.991)	pCi/L		03/25/21 15:46	
Total Radium Calculation	Total Radium	C:80% T:85% 0.415 ± 0.592 (1.27)	pCi/L		03/26/21 13:56	
92525896002	YGWC-36A					
EPA 9315	Radium-226	0.0671 ± 0.0999 (0.218)	pCi/L		03/25/21 10:15	
EPA 9320	Radium-228	C:93% T:NA -0.226 ± 0.464 (1.10)	pCi/L		03/25/21 15:46	
Total Radium Calculation	Total Radium	C:78% T:88% 0.0671 ± 0.564 (1.32)	pCi/L		03/26/21 13:56	
92525896003	DUP-2					
EPA 9315	Radium-226	4.78 ± 0.878 (0.257)	pCi/L		03/25/21 12:25	
EPA 9320	Radium-228	C:85% T:NA 0.329 ± 0.440 (0.941)	pCi/L		03/25/21 15:48	
Total Radium Calculation	Total Radium	C:81% T:76% 5.11 ± 1.32 (1.20)	pCi/L		03/26/21 13:56	
92525896004	YGWC-23S					
EPA 9315	Radium-226	0.230 ± 0.209 (0.423)	pCi/L		03/25/21 09:48	
EPA 9320	Radium-228	C:82% T:NA 0.541 ± 0.461 (0.933)	pCi/L		03/25/21 15:48	
Total Radium Calculation	Total Radium	C:75% T:79% 0.771 ± 0.670 (1.36)	pCi/L		03/26/21 13:56	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SUMMARY OF DETECTION

Project: YATES RADS
Pace Project No.: 92525896

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525896005	YGWC-41					
EPA 9315	Radium-226	0.260 ± 0.174 (0.297) C:84% T:NA	pCi/L		03/25/21 09:48	
EPA 9320	Radium-228	0.968 ± 0.491 (0.867) C:77% T:80%	pCi/L		03/25/21 15:48	
Total Radium Calculation	Total Radium	1.23 ± 0.665 (1.16)	pCi/L		03/26/21 13:56	
92525896006	YGWC-43					
EPA 9315	Radium-226	4.73 ± 0.872 (0.278) C:87% T:NA	pCi/L		03/25/21 09:54	
EPA 9320	Radium-228	1.29 ± 0.544 (0.903) C:76% T:85%	pCi/L		03/25/21 15:48	
Total Radium Calculation	Total Radium	6.02 ± 1.42 (1.18)	pCi/L		03/26/21 13:56	
92525896007	FB-1					
EPA 9315	Radium-226	0.135 ± 0.137 (0.269) C:85% T:NA	pCi/L		03/25/21 09:48	
EPA 9320	Radium-228	0.616 ± 0.480 (0.955) C:76% T:77%	pCi/L		03/25/21 15:48	
Total Radium Calculation	Total Radium	0.751 ± 0.617 (1.22)	pCi/L		03/26/21 13:56	
92525896008	EB-2					
EPA 9315	Radium-226	0.0835 ± 0.120 (0.261) C:88% T:NA	pCi/L		03/25/21 12:27	
EPA 9320	Radium-228	0.815 ± 0.506 (0.961) C:82% T:73%	pCi/L		03/25/21 15:48	
Total Radium Calculation	Total Radium	0.899 ± 0.626 (1.22)	pCi/L		03/26/21 13:56	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SUMMARY OF DETECTION

Project: YATES RADS
Pace Project No.: 92525896

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525896009	YGWC-49					
EPA 9315	Radium-226	0.207 ± 0.133 (0.183) C:79% T:NA	pCi/L		03/25/21 08:50	
EPA 9320	Radium-228	0.372 ± 0.474 (1.01) C:77% T:75%	pCi/L		03/25/21 15:48	
Total Radium Calculation	Total Radium	0.579 ± 0.607 (1.19)	pCi/L		03/26/21 13:56	
92525896010	FB-02					
EPA 9315	Radium-226	0.0807 ± 0.102 (0.208) C:80% T:NA	pCi/L		03/25/21 08:50	
EPA 9320	Radium-228	0.189 ± 0.409 (0.904) C:82% T:77%	pCi/L		03/25/21 15:48	
Total Radium Calculation	Total Radium	0.270 ± 0.511 (1.11)	pCi/L		03/26/21 13:56	
92525896011	YGWC-42					
EPA 9315	Radium-226	0.192 ± 0.134 (0.220) C:89% T:NA	pCi/L		03/25/21 08:50	
EPA 9320	Radium-228	0.830 ± 0.440 (0.791) C:79% T:86%	pCi/L		03/25/21 15:48	
Total Radium Calculation	Total Radium	1.02 ± 0.574 (1.01)	pCi/L		03/26/21 13:56	
92525896012	YGWC-38					
EPA 9315	Radium-226	0.131 ± 0.115 (0.207) C:89% T:NA	pCi/L		03/25/21 08:50	
EPA 9320	Radium-228	0.685 ± 0.396 (0.723) C:78% T:87%	pCi/L		03/25/21 15:48	
Total Radium Calculation	Total Radium	0.816 ± 0.511 (0.930)	pCi/L		03/26/21 13:56	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525896

Sample: YGWC-24SA **Lab ID: 92525896001** Collected: 03/03/21 11:50 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.139 ± 0.138 (0.275) C:85% T:NA	pCi/L	03/25/21 09:48	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.276 ± 0.454 (0.991) C:80% T:85%	pCi/L	03/25/21 15:46	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.415 ± 0.592 (1.27)	pCi/L	03/26/21 13:56	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525896

Sample: YGWC-36A **Lab ID: 92525896002** Collected: 03/04/21 12:35 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0671 ± 0.0999 (0.218) C:93% T:NA	pCi/L	03/25/21 10:15	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	-0.226 ± 0.464 (1.10) C:78% T:88%	pCi/L	03/25/21 15:46	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.0671 ± 0.564 (1.32)	pCi/L	03/26/21 13:56	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525896

Sample: DUP-2 **Lab ID: 92525896003** Collected: 03/03/21 00:00 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	4.78 ± 0.878 (0.257) C:85% T:NA	pCi/L	03/25/21 12:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.329 ± 0.440 (0.941) C:81% T:76%	pCi/L	03/25/21 15:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	5.11 ± 1.32 (1.20)	pCi/L	03/26/21 13:56	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525896

Sample: YGWC-23S **Lab ID: 92525896004** Collected: 03/04/21 12:15 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.230 ± 0.209 (0.423) C:82% T:NA	pCi/L	03/25/21 09:48	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.541 ± 0.461 (0.933) C:75% T:79%	pCi/L	03/25/21 15:48	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.771 ± 0.670 (1.36)	pCi/L	03/26/21 13:56	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525896

Sample: YGWC-41 **Lab ID: 92525896005** Collected: 03/04/21 09:00 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.260 ± 0.174 (0.297) C:84% T:NA	pCi/L	03/25/21 09:48	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.968 ± 0.491 (0.867) C:77% T:80%	pCi/L	03/25/21 15:48	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.23 ± 0.665 (1.16)	pCi/L	03/26/21 13:56	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525896

Sample: YGWC-43 **Lab ID: 92525896006** Collected: 03/04/21 14:50 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	4.73 ± 0.872 (0.278) C:87% T:NA	pCi/L	03/25/21 09:54	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.29 ± 0.544 (0.903) C:76% T:85%	pCi/L	03/25/21 15:48	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	6.02 ± 1.42 (1.18)	pCi/L	03/26/21 13:56	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525896

Sample: FB-1 **Lab ID: 92525896007** Collected: 03/04/21 14:00 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.135 ± 0.137 (0.269) C:85% T:NA	pCi/L	03/25/21 09:48	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.616 ± 0.480 (0.955) C:76% T:77%	pCi/L	03/25/21 15:48	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.751 ± 0.617 (1.22)	pCi/L	03/26/21 13:56	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525896

Sample: EB-2 **Lab ID: 92525896008** Collected: 03/04/21 16:35 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0835 ± 0.120 (0.261) C:88% T:NA	pCi/L	03/25/21 12:27	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.815 ± 0.506 (0.961) C:82% T:73%	pCi/L	03/25/21 15:48	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.899 ± 0.626 (1.22)	pCi/L	03/26/21 13:56	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525896

Sample: YGWC-49 **Lab ID: 92525896009** Collected: 03/04/21 14:51 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.207 ± 0.133 (0.183) C:79% T:NA	pCi/L	03/25/21 08:50	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.372 ± 0.474 (1.01) C:77% T:75%	pCi/L	03/25/21 15:48	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.579 ± 0.607 (1.19)	pCi/L	03/26/21 13:56	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525896

Sample: FB-02 **Lab ID: 92525896010** Collected: 03/04/21 15:00 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0807 ± 0.102 (0.208) C:80% T:NA	pCi/L	03/25/21 08:50	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.189 ± 0.409 (0.904) C:82% T:77%	pCi/L	03/25/21 15:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.270 ± 0.511 (1.11)	pCi/L	03/26/21 13:56	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525896

Sample: YGWC-42 **Lab ID: 92525896011** Collected: 03/04/21 08:45 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.192 ± 0.134 (0.220) C:89% T:NA	pCi/L	03/25/21 08:50	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.830 ± 0.440 (0.791) C:79% T:86%	pCi/L	03/25/21 15:48	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.02 ± 0.574 (1.01)	pCi/L	03/26/21 13:56	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525896

Sample: YGWC-38 **Lab ID: 92525896012** Collected: 03/04/21 13:45 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.131 ± 0.115 (0.207) C:89% T:NA	pCi/L	03/25/21 08:50	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.685 ± 0.396 (0.723) C:78% T:87%	pCi/L	03/25/21 15:48	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.816 ± 0.511 (0.930)	pCi/L	03/26/21 13:56	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES RADS
Pace Project No.: 92525896

QC Batch: 438168	Analysis Method: EPA 9320
QC Batch Method: EPA 9320	Analysis Description: 9320 Radium 228
	Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92525896001, 92525896002, 92525896003, 92525896004, 92525896005, 92525896006, 92525896007, 92525896008, 92525896009, 92525896010, 92525896011, 92525896012	

METHOD BLANK: 2115336	Matrix: Water
Associated Lab Samples: 92525896001, 92525896002, 92525896003, 92525896004, 92525896005, 92525896006, 92525896007, 92525896008, 92525896009, 92525896010, 92525896011, 92525896012	

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0301 ± 0.353 (0.815) C:79% T:75%	pCi/L	03/25/21 12:20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525896

QC Batch: 438264

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92525896001, 92525896002, 92525896003, 92525896004, 92525896005, 92525896006, 92525896007, 92525896008, 92525896009, 92525896010, 92525896011, 92525896012

METHOD BLANK: 2115666

Matrix: Water

Associated Lab Samples: 92525896001, 92525896002, 92525896003, 92525896004, 92525896005, 92525896006, 92525896007, 92525896008, 92525896009, 92525896010, 92525896011, 92525896012

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0177 ± 0.140 (0.349) C:93% T:NA	pCi/L	03/25/21 09:33	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALIFIERS

Project: YATES RADS

Pace Project No.: 92525896

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.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

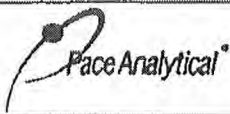
QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES RADS
Pace Project No.: 92525896

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525896001	YGWC-24SA	EPA 9315	438264		
92525896002	YGWC-36A	EPA 9315	438264		
92525896003	DUP-2	EPA 9315	438264		
92525896004	YGWC-23S	EPA 9315	438264		
92525896005	YGWC-41	EPA 9315	438264		
92525896006	YGWC-43	EPA 9315	438264		
92525896007	FB-1	EPA 9315	438264		
92525896008	EB-2	EPA 9315	438264		
92525896009	YGWC-49	EPA 9315	438264		
92525896010	FB-02	EPA 9315	438264		
92525896011	YGWC-42	EPA 9315	438264		
92525896012	YGWC-38	EPA 9315	438264		
92525896001	YGWC-24SA	EPA 9320	438168		
92525896002	YGWC-36A	EPA 9320	438168		
92525896003	DUP-2	EPA 9320	438168		
92525896004	YGWC-23S	EPA 9320	438168		
92525896005	YGWC-41	EPA 9320	438168		
92525896006	YGWC-43	EPA 9320	438168		
92525896007	FB-1	EPA 9320	438168		
92525896008	EB-2	EPA 9320	438168		
92525896009	YGWC-49	EPA 9320	438168		
92525896010	FB-02	EPA 9320	438168		
92525896011	YGWC-42	EPA 9320	438168		
92525896012	YGWC-38	EPA 9320	438168		
92525896001	YGWC-24SA	Total Radium Calculation	440647		
92525896002	YGWC-36A	Total Radium Calculation	440647		
92525896003	DUP-2	Total Radium Calculation	440647		
92525896004	YGWC-23S	Total Radium Calculation	440647		
92525896005	YGWC-41	Total Radium Calculation	440647		
92525896006	YGWC-43	Total Radium Calculation	440647		
92525896007	FB-1	Total Radium Calculation	440647		
92525896008	EB-2	Total Radium Calculation	440647		
92525896009	YGWC-49	Total Radium Calculation	440647		
92525896010	FB-02	Total Radium Calculation	440647		
92525896011	YGWC-42	Total Radium Calculation	440647		
92525896012	YGWC-38	Total Radium Calculation	440647		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



Document Name:
Sample Condition Upon Receipt(SCUR)
Document No.:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020
Page 1 of 2
Issuing Authority:
Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt: _____ Client Name: GA Power
 Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Project #: **WO# : 92525896**



Insulation Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 3/5/21 CM

Packing Material: Bubble Wrap Bubble Bags None Other
 Thermometer: IR Gun ID: 230 Type of Ice: Wet Blue None

Biological Tissue Frozen?
 Yes No N/A

Cooler Temp: 2.0 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C
 Samples out of temp criteria: Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 2.0
 SDA Regulated Soil (N/A, water sample)
 Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?
 Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

		Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <u>W</u>		
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY _____ Field Data Required? Yes No

Lot ID of split containers: _____

CLIENT NOTIFICATION/RESOLUTION

Person contacted _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____
 Project Manager SRF Review: _____ Date: _____



Document Name:
Sample Condition Upon Receipt(SCUR)

Document Revised: October 28, 2020
Page 2 of 2

Document No.:
F-CAR-CS-033-Rev.07

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.

Project #

WO#: 92525896

PM: KLH1

Due Date: 03/26/21

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHG

CLIENT: GA-GA Power

**Bottom half of box is to list number of bottles

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BPAS-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BPAN-250 mL plastic HNO3 (pH < 2)	BPAZ-125 mL Plastic ZN Acetate & NaOH (>9)	BPAC-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 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)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1																													
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers).



www.paceanalytical.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 5
COC 2

Client Information:
 Client Name: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: Atlanta, GA 30114
 Phone: (770) 364-6926
 Fax: _____
 Requested Due Date: _____

Project Information:
 Project Name: Yates AWA
 Project #: _____

Invoice Information:
 Attention: Becky Stever
 Company Name: _____
 Address: _____
 Pace Quote: _____
 Pace Project Manager: Kevin Hemming@paceabts.com
 Pace Profile #: 10840

Regulatory Agency:
 State of Georgia
 GA

ITEM #	DESCRIPTION	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB L=COMP)	COLLECTED		SAMPLE TEMP AT COLLECT ON	# OF CONTAINERS	Preservatives							Analytes Test	Residual Chlorine (Y/N)			
				START DATE	START TIME			END DATE	END TIME	Unpreserved	H2SO4	HNO3	HCl	NaOH			Na2S2O3	Methanol	Other
13	YGWC-24SA	WT	WT	03/01/2024	1150		5	X	X	X	X	X	X	X	X	X	X		
14	YGWC-36A	WT	WT	03/01/2024	1235		5	X	X	X	X	X	X	X	X	X	X		
15	YGWC-48A	WT	WT	03/01/2024	-		5	X	X	X	X	X	X	X	X	X	X		
16		WT	WT																
17		WT	WT																
18		WT	WT																
19		WT	WT																
20		WT	WT																
21																			
22																			
23																			
24																			

ADDITIONAL COMMENTS: _____

RELINQUISHED BY / AFFILIATION: _____ **DATE:** 03/01/2024 **TIME:** 1605

ACCEPTED BY / AFFILIATION: _____ **DATE:** 03/01/2024 **TIME:** 0930

SAMPLER NAME AND SIGNATURE: Peter Appabits
 PRINT NAME OF SAMPLER: Peter Appabits
 SIGNATURE OF SAMPLER: _____
 DATE SIGNED: 03/01/2024

SAMPLE CONDITIONS:

TEMP In C	Received on Ice <input type="checkbox"/> (Y/N)	Custody Sealed <input type="checkbox"/> Cooler <input type="checkbox"/> (Y/N)	Samples Intact <input type="checkbox"/> (Y/N)
-----------	--	---	---



www.paceanalytical.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Section B

Section C

Client Information:
 Primary: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: Atlanta, GA 30114

Required Project Information:
 Report To: Becky Steever
 Copy To:
 Purchase Order #: Yates AMA
 Project Name: Yates AMA
 Project #:

Invoice Information:
 Attention:
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: Kevin Herring@pacelabs.com
 Pace Profile #: 10840

Requested Analyte Filtered (Y/N)
 Residual Chlorine (Y/N)
 Regulatory Agency: DEC
 State / Location: GA

SAMPLE ID
 One Character per box.
 (A-Z, 0-9 / . -)
 Sample IDs must be unique

MATRIX CODE (see viald codes to left)
 SAMPLE TYPE (G=GRAB C=COMP)

COLLECTED	START		END	
	DATE	TIME	DATE	TIME
	3/4	12:55		

SAMPLE TEMP AT COLLECTION		# OF CONTAINERS	
		Unpreserved	5
		H2SO4	
		HNO3	
		HCl	
		NaOH	
		Na2S2O3	
		Methanol	
		Other	

Analyses Test	Y/N
TDS	X
Cl, F, SO4	X
App III/IV Metals	X
RAD 8316/8320	X

Requester Name and Signature	DATE	TIME
Jake Swanson	3/4/12	1700

Accepted by / Affiliation	DATE	TIME
Charles Brady	3/5/12	0900

TEMP In C
 Received on Ice (Y/N)
 Custody Sealed Cooler (Y/N)
 Samples Intact (Y/N)

NO.	ADDITIONAL COMMENTS	RELEASUED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
3	✓ GWC-235							
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								

PH: 5.44

Page: 2 of 9



CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
 Client Information:
 Agency: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: Atlanta GA 30114
 Phone: (770) 394-4326
 Fax: (770) 394-4326
 Requested Due Date:
 Project Name:
 Project #:

Section B
 Required Project Information:
 Report To: Becky Steever
 Copy To:
 Purchase Order #:
 Project Name: Yates RS
 Project #:

Section C
 Invoice Information:
 Attention:
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: kevin.herrington@paceanalytical.com
 Pace Profile #: 10840
 Requested Analytes (Printed Title):
 Residual Chlorine (Y/N)
 State Location: CA

Page: **3** of **5**
 Coe A

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analytes Test	Residual Chlorine (Y/N)	
			START DATE	END DATE			Unpreserved	H2SO4	HNO3	HC	NaOH	Na2S2O3	Methanol			Other
1	YGMW-C11	WT	3/4/2000		5	5	✓	✓	✓	✓	✓	✓	✓	✓	✓	
2	YGMW-C12	WT	3/4/2000		5	5	✓	✓	✓	✓	✓	✓	✓	✓	✓	
3	YGMW-C13	WT	3/4/2000		5	5	✓	✓	✓	✓	✓	✓	✓	✓	✓	
4	YGMW-C14	WT	3/4/2000		5	5	✓	✓	✓	✓	✓	✓	✓	✓	✓	
5	YGMW-C15	WT	3/4/2000		5	5	✓	✓	✓	✓	✓	✓	✓	✓	✓	

ADDITIONAL COMMENTS:
 RECEIVED BY / INITIALS:
 DATE: 3/4/2000
 TIME: 11:00
 ACCEPTED BY / INITIALS:
 DATE: 3/5/2000
 TIME: 11:00
 SAMPLE CONDITIONS:
 Received on Ice (Y/N)
 Sealed (Y/N)
 Cooler (Y/N)
 Samples Intact (Y/N)
 SAMPLER NAME AND SIGNATURE:
 PRINT NAME OF SAMPLER:
 SIGNATURE OF SAMPLER:
 DATE SIGNED:
 TEMP in C



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Station A

Section B

Section C

Required Client Information:

Required Project Information:

Invoice Information:

Page: 49 of 50
COC 2

Agency: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: Atlanta, GA 30314
 Phone: (770) 304-6525
 Fax: [Blank]
 Project Name: Yates AWA
 Project #: [Blank]

Report To: Becky Stever
 Copy To: [Blank]
 Purchase Order #: [Blank]

Attention: [Blank]
 Company Name: [Blank]
 Address: [Blank]
 Pace Order: [Blank]
 Pace Project Manager: Kevin.Herring@ga-scslabs.com
 Pace Profile #: 10840

Requested Analytical Parameters (Y/N):
 Residual Chlorine (Y/N): [Blank]

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / -)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analytical Tests	Residual Chlorine (Y/N)				
				START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			Other	TDS	Cl, F, SO4	App III/IV Metals
13	YGMW-26A	WT																		
14	YGMW-26A	WT																		
15	YGMW-49	WT	3421	1451		5	1													
16	FB-02	WT	3421	1508		5	1													
17		WT																		
18		WT																		
19		WT																		
20		WT																		
21		WT																		
22		WT																		
23		WT																		
24		WT																		

ADDITIONAL COMMENTS: [Blank]

REQUISITIONED BY / ASSESSMENT: [Signature]

DATE: 3-4-21 TIME: 16:45

ACCEPTED BY / REGULATION: [Signature]

DATE: 3-4-21 TIME: 16:45

SAMPLER NAME AND SIGNATURE: [Signature]

PRINT Name of SAMPLER: Kate Porewicz

SIGNATURE of SAMPLER: [Signature]

DATE signed: 3-4-21

TEMP in C: [Blank]

Received on Ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)



ation A

Required Client Information:

Agency: Georgia Power
 Address: 1070 Bridge Mill Ave
 Alton, GA 30114
 Phone: (770)384-5526
 Fax: [blank]
 Requested Due Date: [blank]

Section B
 Required Project Information:

Report To: Becky Stever
 Copy To: [blank]
 Purchase Order #: [blank]
 Project Name: Yates RS
 Project #:

Section C
 Invoice Information:

Company Name: [blank]
 Address: [blank]
 Price Quote: [blank]
 Price Project Manager: Kevin.Herring@pacadps.com
 Price Profile #: 10840

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 5 of 5
 COC

SAMPLE ID
 One character per box.
 (A-Z, 0-9 /, -)
 Sample IDs must be unique

MATRIX CODED
 Dosing Water WTD
 Wastewater WTW
 Product Water WTP
 Surface Water WTS
 Other WOT

MATRIX CODED
 WTD
 WTW
 WTP
 WTS
 WOT

MATRIX CODE (see valid codes to left)

SAMPLE TYPE (G=GRAB C=COMP)

COLLECTED

START DATE	START TIME	END DATE	END TIME
3/4/21	13:45		
3/4/21	18:45		

SAMPLE TEMP AT COLLECTION

OF CONTAINERS

Unpreserved

Preservatives

H2SO4	
HNO3	
HCl	
NaOH	
Na2S2O3	
Methanol	
Other	

Requested Analysis Filtered (Y/N)

Analysis Test	Y/N
TDS	X
Cl, F, SO4	X
App III-V Metals	X
RAD 8316/8320	X

Residual Chlorine (Y/N)

TEMP In C

Received on Ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)

ITEM #	MATRIX	MATRIX CODE	SAMPLE TYPE	START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	Preservatives	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	TEMP In C	Received on Ice <input type="checkbox"/> (Y/N)	Custody Sealed <input type="checkbox"/> Cooler <input type="checkbox"/> (Y/N)	Samples Intact <input type="checkbox"/> (Y/N)
1	WTD	WTD	G	3/4/21	13:45			5	1			X					
2	WTD	WTD	G	3/4/21	18:45			5	1			X					
3	WTD	WTD	G									X					
4	WTD	WTD	G									X					
5	WTD	WTD	G									X					
6	WTD	WTD	G									X					
7	WTD	WTD	G									X					
8	WTD	WTD	G									X					
9	WTD	WTD	G									X					
10	WTD	WTD	G									X					
11	WTD	WTD	G									X					
12	WTD	WTD	G									X					

ADDITIONAL COMMENTS

RES. REQUESTED BY / AFFILIATION: *[Signature]*

DATE: 3/4/21 TIME: 10:45

ACCEPTED BY / AFFILIATION: *[Signature]*

DATE: 3/4/21 TIME: 10:20

SAMPLER NAME AND SIGNATURE: *[Signature]*

PRINT Name of SAMPLER: Kate Pyrekuska

SIGNATURE of SAMPLER: *[Signature]*

DATE Signed: 3/4/21

REGULATORY AGENCY: *[Signature]*

STATE / LOCATION: GA

March 28, 2021

Ms. Lauren Petty
Southern Company
42 Inverness Center Parkway
Birmingham, AL 35242

RE: Project: YATES RADS
Pace Project No.: 92525905

Dear Ms. Petty:

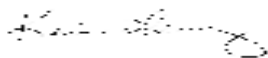
Enclosed are the analytical results for sample(s) received by the laboratory on March 05, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise 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,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Samantha Thomas
Maribel Vital



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: YATES RADS
Pace Project No.: 92525905

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 #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE SUMMARY

Project: YATES RADS
Pace Project No.: 92525905

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92525905001	YAMW-2	Water	03/03/21 14:10	03/05/21 09:20
92525905002	YAMW-4	Water	03/03/21 13:05	03/05/21 09:20
92525905003	YAMW-5	Water	03/04/21 14:15	03/05/21 09:20
92525905004	YAMW-1	Water	03/03/21 15:15	03/05/21 09:20
92525905005	PZ-35	Water	03/04/21 15:30	03/05/21 09:20
92525905006	EB1	Water	03/04/21 16:00	03/05/21 09:20
92525905007	PZ-37	Water	03/04/21 11:55	03/05/21 09:20

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE ANALYTE COUNT

Project: YATES RADS
Pace Project No.: 92525905

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92525905001	YAMW-2	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525905002	YAMW-4	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525905003	YAMW-5	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525905004	YAMW-1	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525905005	PZ-35	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525905006	EB1	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525905007	PZ-37	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SUMMARY OF DETECTION

Project: YATES RADS
Pace Project No.: 92525905

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525905001	YAMW-2					
EPA 9315	Radium-226	0.101 ± 0.102 (0.188)	pCi/L		03/25/21 08:50	
EPA 9320	Radium-228	C:85% T:NA 0.462 ± 0.393 (0.795)	pCi/L		03/25/21 12:21	
Total Radium Calculation	Total Radium	C:80% T:79% 0.563 ± 0.495 (0.983)	pCi/L		03/26/21 14:34	
92525905002	YAMW-4					
EPA 9315	Radium-226	0.252 ± 0.159 (0.242)	pCi/L		03/25/21 08:50	
EPA 9320	Radium-228	C:72% T:NA 0.822 ± 0.449 (0.823)	pCi/L		03/25/21 12:21	
Total Radium Calculation	Total Radium	C:80% T:80% 1.07 ± 0.608 (1.07)	pCi/L		03/26/21 14:34	
92525905003	YAMW-5					
EPA 9315	Radium-226	0.479 ± 0.208 (0.275)	pCi/L		03/25/21 08:50	
EPA 9320	Radium-228	C:84% T:NA 0.979 ± 0.406 (0.656)	pCi/L		03/25/21 12:21	
Total Radium Calculation	Total Radium	C:81% T:89% 1.46 ± 0.614 (0.931)	pCi/L		03/26/21 14:34	
92525905004	YAMW-1					
EPA 9315	Radium-226	0.131 ± 0.146 (0.301)	pCi/L		03/26/21 08:05	
EPA 9320	Radium-228	C:79% T:NA 0.246 ± 0.446 (0.975)	pCi/L		03/23/21 13:46	
Total Radium Calculation	Total Radium	C:81% T:71% 0.377 ± 0.592 (1.28)	pCi/L		03/26/21 14:34	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SUMMARY OF DETECTION

Project: YATES RADS
Pace Project No.: 92525905

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525905005	PZ-35					
EPA 9315	Radium-226	0.131 ± 0.116 (0.213) C:96% T:NA	pCi/L		03/26/21 08:05	
EPA 9320	Radium-228	0.266 ± 0.375 (0.806) C:85% T:83%	pCi/L		03/23/21 13:46	
Total Radium Calculation	Total Radium	0.397 ± 0.491 (1.02)	pCi/L		03/26/21 14:34	
92525905006	EB1					
EPA 9315	Radium-226	0.0452 ± 0.0923 (0.215) C:83% T:NA	pCi/L		03/26/21 08:05	
EPA 9320	Radium-228	0.393 ± 0.346 (0.695) C:82% T:77%	pCi/L		03/23/21 13:46	
Total Radium Calculation	Total Radium	0.438 ± 0.438 (0.910)	pCi/L		03/26/21 14:34	
92525905007	PZ-37					
EPA 9315	Radium-226	0.868 ± 0.271 (0.307) C:79% T:NA	pCi/L		03/26/21 08:10	
EPA 9320	Radium-228	0.626 ± 0.363 (0.662) C:78% T:92%	pCi/L		03/23/21 13:47	
Total Radium Calculation	Total Radium	1.49 ± 0.634 (0.969)	pCi/L		03/26/21 14:34	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525905

Sample: YAMW-2 **Lab ID: 92525905001** Collected: 03/03/21 14:10 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.101 ± 0.102 (0.188) C:85% T:NA	pCi/L	03/25/21 08:50	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.462 ± 0.393 (0.795) C:80% T:79%	pCi/L	03/25/21 12:21	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.563 ± 0.495 (0.983)	pCi/L	03/26/21 14:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525905

Sample: YAMW-4 **Lab ID: 92525905002** Collected: 03/03/21 13:05 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.252 ± 0.159 (0.242) C:72% T:NA	pCi/L	03/25/21 08:50	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.822 ± 0.449 (0.823) C:80% T:80%	pCi/L	03/25/21 12:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.07 ± 0.608 (1.07)	pCi/L	03/26/21 14:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525905

Sample: YAMW-5 **Lab ID: 92525905003** Collected: 03/04/21 14:15 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.479 ± 0.208 (0.275) C:84% T:NA	pCi/L	03/25/21 08:50	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.979 ± 0.406 (0.656) C:81% T:89%	pCi/L	03/25/21 12:21	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.46 ± 0.614 (0.931)	pCi/L	03/26/21 14:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525905

Sample: YAMW-1 **Lab ID: 92525905004** Collected: 03/03/21 15:15 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.131 ± 0.146 (0.301) C:79% T:NA	pCi/L	03/26/21 08:05	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.246 ± 0.446 (0.975) C:81% T:71%	pCi/L	03/23/21 13:46	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.377 ± 0.592 (1.28)	pCi/L	03/26/21 14:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525905

Sample: PZ-35 **Lab ID: 92525905005** Collected: 03/04/21 15:30 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.131 ± 0.116 (0.213) C:96% T:NA	pCi/L	03/26/21 08:05	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.266 ± 0.375 (0.806) C:85% T:83%	pCi/L	03/23/21 13:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.397 ± 0.491 (1.02)	pCi/L	03/26/21 14:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525905

Sample: EB1 **Lab ID: 92525905006** Collected: 03/04/21 16:00 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0452 ± 0.0923 (0.215) C:83% T:NA	pCi/L	03/26/21 08:05	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.393 ± 0.346 (0.695) C:82% T:77%	pCi/L	03/23/21 13:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.438 ± 0.438 (0.910)	pCi/L	03/26/21 14:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525905

Sample: PZ-37 **Lab ID: 92525905007** Collected: 03/04/21 11:55 Received: 03/05/21 09:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.868 ± 0.271 (0.307) C:79% T:NA	pCi/L	03/26/21 08:10	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.626 ± 0.363 (0.662) C:78% T:92%	pCi/L	03/23/21 13:47	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.49 ± 0.634 (0.969)	pCi/L	03/26/21 14:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525905

QC Batch: 438168

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92525905001, 92525905002, 92525905003

METHOD BLANK: 2115336

Matrix: Water

Associated Lab Samples: 92525905001, 92525905002, 92525905003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0301 ± 0.353 (0.815) C:79% T:75%	pCi/L	03/25/21 12:20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525905

QC Batch: 438264

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92525905001, 92525905002, 92525905003

METHOD BLANK: 2115666

Matrix: Water

Associated Lab Samples: 92525905001, 92525905002, 92525905003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0177 ± 0.140 (0.349) C:93% T:NA	pCi/L	03/25/21 09:33	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525905

QC Batch: 438266

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92525905004, 92525905005, 92525905006, 92525905007

METHOD BLANK: 2115671

Matrix: Water

Associated Lab Samples: 92525905004, 92525905005, 92525905006, 92525905007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.142 ± 0.131 (0.243) C:77% T:NA	pCi/L	03/26/21 08:05	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92525905

QC Batch: 438169

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92525905004, 92525905005, 92525905006, 92525905007

METHOD BLANK: 2115337

Matrix: Water

Associated Lab Samples: 92525905004, 92525905005, 92525905006, 92525905007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.429 ± 0.325 (0.634) C:80% T:90%	pCi/L	03/23/21 13:45	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALIFIERS

Project: YATES RADS

Pace Project No.: 92525905

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.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES RADS
Pace Project No.: 92525905

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525905001	YAMW-2	EPA 9315	438264		
92525905002	YAMW-4	EPA 9315	438264		
92525905003	YAMW-5	EPA 9315	438264		
92525905004	YAMW-1	EPA 9315	438266		
92525905005	PZ-35	EPA 9315	438266		
92525905006	EB1	EPA 9315	438266		
92525905007	PZ-37	EPA 9315	438266		
92525905001	YAMW-2	EPA 9320	438168		
92525905002	YAMW-4	EPA 9320	438168		
92525905003	YAMW-5	EPA 9320	438168		
92525905004	YAMW-1	EPA 9320	438169		
92525905005	PZ-35	EPA 9320	438169		
92525905006	EB1	EPA 9320	438169		
92525905007	PZ-37	EPA 9320	438169		
92525905001	YAMW-2	Total Radium Calculation	440666		
92525905002	YAMW-4	Total Radium Calculation	440666		
92525905003	YAMW-5	Total Radium Calculation	440666		
92525905004	YAMW-1	Total Radium Calculation	440666		
92525905005	PZ-35	Total Radium Calculation	440666		
92525905006	EB1	Total Radium Calculation	440666		
92525905007	PZ-37	Total Radium Calculation	440666		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



Document Name:
Sample Condition Upon Receipt(SCUR)

Document Revised: October 28, 2020
Page 1 of 2

Document No.:
F-CAR-CS-033-Rev.07

Issuing Authority:
Pace Carolinas Quality Office

laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition
Upon Receipt

Client Name:

G A Power

Project #:

WO#: 92525905



Courier: Fed Ex UPS USPS Client
 Commercial Pace Other:

custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *3/5/21*

acking Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

ermometer: IR Gun ID: *230* Type of Ice: Wet Blue None

Yes No N/A

ooler Temp: *2.0* Correction Factor: Add/Subtract (°C) *0.0*

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

ooler Temp Corrected (°C): *2.0*

JSDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?
 Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		3.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		5.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		6.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		8.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		9.
-Includes Date/Time/ID/Analysis Matrix:	<i>W</i>		
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		10.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



Document Name:
Sample Condition Upon Receipt(SCUR)
 Document No.:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020
 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, LLHg

**Bottom half of box is to list number of bottles

Project #

WO# : 92525905

PM: KLH1

Due Date: 03/26/21

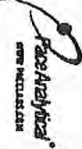
CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP9U-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)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 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)	BP3A-250 mL Plastic (NH2)2SO4 (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)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



Required Client Information:
 Company: Georgia Power
 Address: 1070 Br-dge Mill Ave
 Atlanta, GA 30114
 Phone: (770)334-6525
 Fax: [blank]
 Requested Due Date: [blank]

Section B Required Project Information:
 Report To: Becky Steever
 Copy To: [blank]
 Purchase Order #: [blank]
 Project Name: Yates RS-AMA
 Project #: [blank]

Section C Invoice Information:
 Attention: [blank]
 Company Name: [blank]
 Address: [blank]
 Pace Quote: [blank]
 Pace Project Manager: Kevin.Hernandez@pas.com
 Pace Profile #: 10840
 Requested Analysis: Filtered (Y/N)

Regulatory Agency:
 State / Location: GA

OSCE

Received on Ice (Y/N)
 Custody Sealed (Y/N)
 Cooler (Y/N)
 Samples Intact (Y/N)

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, -)	MATRIX CODE (see valid codes to IIR)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	PRESERVATIVES								Analyse Test	Residual Chlorine (Y/N)							
				START DATE	END DATE		Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other			TDS	Cl, F, SO4	App III/IV Metals	RAD 8316/8320			
1	YAMM-2	WT	Grab	1410		5	X	X								X	X	X	X			PH = 5.67	
2	YAMM-4	WT	Grab	1305		5	X	X								X	X	X	X			PH = 6.80	
3	YAMM-5	WT	Grab	1415		5	X	X								X	X	X	X			PH = 5.32	
4	YAMM-1	WT	Grab	1515		5	X	X								X	X	X	X			PH = 6.54	
5	PZ35	WT	Grab	1530		5	X	X								X	X	X	X			PH = 5.64	
6	EB1	WT	Grab	1600		5	X	X								X	X	X	X				
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS:

RESOURCES BY / AFFILIATION: [Handwritten initials]

DATE: 03/04/2014

TIME: 1605

ACCEPTED BY / AFFILIATION: [Handwritten signature]

DATE: 03/04/2014

TIME: 0920

SAMPLER NAME AND SIGNATURE:
 PRINT Name of SAMPLER: Peter Argyrakis
 SIGNATURE of SAMPLER: [Handwritten signature]

DATE Signed: 03/04/2014

TEMP In C



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A	Client Information:	Section B	Required Project Information:	Section C	Invoice Information:
Company:	Georgia Power	Report To:	Betsy Stepper	Attention:	
Address:	1070 Bridge Mill Ave Macon, GA 30114	Copy To:		Company Name:	
Phone:	(770) 394-6526	Purchase Order #:	Yates AMA	Address:	
Fax:		Project Name:	Yates AMA	Pace Quote:	
Requested Due Date:		Project #:		Pace Project Manager:	Kevin Herring@pocelabs.com
				Pace Profile #:	10840
					Requested Analytic Filtered (Y/N)
					Regulatory Agency
					State / Location
					GA

Page: 2 of 2

SAMPLE ID
One Character per box.
(A-Z, 0-9, /)

Sample Ids must be unique

13 PZ-87

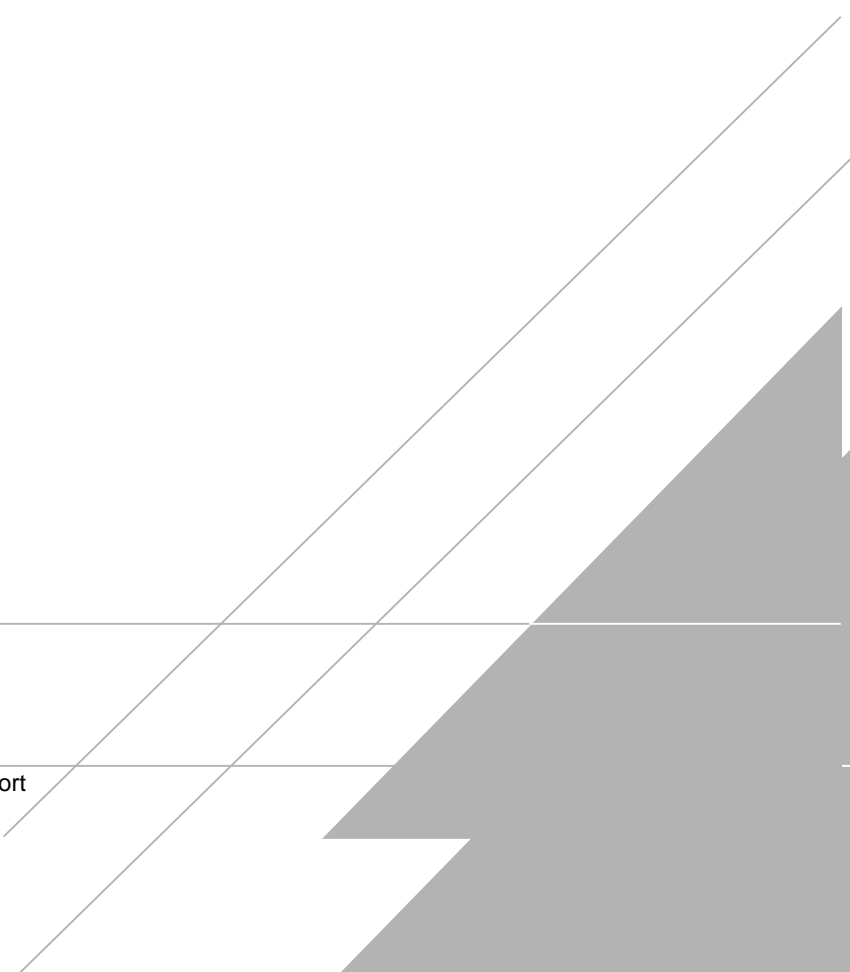
ITEM #	MATERIAL	CODED	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES									ANALYZE TEST	TEMP In C	SAMPLER NAME AND SIGNATURE	DATE	TIME	RECEIVED BY / VERIFICATION	DATE	TIME	ACCEPTED BY / VERIFICATION	DATE	TIME	SOURCE CONDITIONS												
			START	END			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	TDS												Cl, F, SO4	App III/IV Metals	RAD 8315/8320	Residual Chlorine (Y/N)	pH	Sediment	Received on Ice <input type="checkbox"/> (Y/N)	Custody Sealed <input type="checkbox"/> Cooler <input type="checkbox"/> (Y/N)	Samples Intact <input type="checkbox"/> (Y/N)				
			DATE	TIME			DATE	TIME																															
13	WATER	WT	3/4/21	11:55	5	1									X	X	X	X																					
14	WATER	WT													X	X	X	X																					
15	WATER	WT													X	X	X	X																					
16	WATER	WT													X	X	X	X																					
17	WATER	WT													X	X	X	X																					
18	WATER	WT													X	X	X	X																					
19	WATER	WT													X	X	X	X																					
20	WATER	WT													X	X	X	X																					
21	WATER	WT													X	X	X	X																					
22	WATER	WT													X	X	X	X																					
23	WATER	WT													X	X	X	X																					
24	WATER	WT													X	X	X	X																					

SAMPLER NAME AND SIGNATURE: PRONT Name of SAMPLER: Kate R. Phemic SIGNATURE of SAMPLER: <i>[Signature]</i>		DATE Signed: 3/4/21
TEMP In C: _____		
Received on Ice <input type="checkbox"/> (Y/N)		
Custody Sealed <input type="checkbox"/> Cooler <input type="checkbox"/> (Y/N)		
Samples Intact <input type="checkbox"/> (Y/N)		

May 2021

PZ-37D

2021 Semiannual Groundwater and Corrective Action Report
Plant Yates AP-3, A, B, B' and R6 CCR Landfill
Newnan, GA



Georgia Power Co. – Plant Yates

DATA REVIEW

Metals, Radium, and General Chemistry Analyses

SDGs #92538831 and 92538834

Analyses Performed By:

Pace Analytical Services – Asheville, North Carolina

Pace Analytical Services – Peachtree Corners, Georgia

Pace Analytical Services – Greensburg, Pennsylvania

Report #41952R

Review Level: Tier II

Project: 30052922.00004



DATA REVIEW REPORT

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) #92538834 for samples collected in association with the Georgia Power Company – Plant Yates. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the chain of custody form and a table summarizing the data validation qualifiers. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
PZ-37D	92538831001 92538834001	Water	5/13/2021		X	X	X
FB-1	92538831002 92538834002	Water	5/13/2021		X	X	X
EB-1	92538831003 92538834003	Water	5/13/2021		X	X	X
DUP-1	92538831004 92538834004	Water	5/13/2021	PZ-37D	X	X	X

Notes:

1. Metals and total dissolved solids (TDS) analysis performed by Pace Analytical Services – Peachtree Corners, Georgia.
2. Anions (chloride, fluoride, and sulfate) analysis performed by Pace Analytical Services – Asheville, North Carolina.
3. Radium analysis performed by Pace Analytical Services – Greensburg, Pennsylvania.
4. pH analysis performed as a field measurement.

DATA REVIEW REPORT

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

Note:

QA - Quality Assurance

DATA REVIEW REPORT

INORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 6010D, 6020B, 7470A, 9315, and 9320; Standard Method (SM) SM4500-H+ B 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 National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017).

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 reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the “R” flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. “R” values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

DATA REVIEW REPORT

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 analytes 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
PZ-37D DUP-1	Antimony (EB, FB, MB)	Detected sample results <RL and <BAL	"UB" at the RL

Note:

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.

DATA REVIEW REPORT

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 PZ-37D in association with SW-846 6020B and SW-846 7470A analysis exhibited recoveries within the control limits.

MS/MSD analysis was not performed using a sample from this SDG in association with SW-846 6010D analysis.

3.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one times the RL is applied for water matrices.

MS/MSD analysis was performed using sample PZ-37D in association with SW-846 6020B and SW-846 7470A analysis in replacement of laboratory duplicate analysis. The MS/MSD recoveries exhibited acceptable RPDs.

Laboratory duplicate analysis was not performed using a sample from this SDG in association with SW-846 6010D analysis.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 35% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
PZ-37D / DUP-1	Calcium	68.3	71.6	4.7%
	Boron	1.3	1.2	8.0%
	Barium	0.015	0.015	AC
	Lead	0.000049 J	0.000040 J	
	Lithium	0.011 J	0.011 J	
	Molybdenum	0.0042 J	0.0040 J	

Notes:

AC = Acceptable

DATA REVIEW REPORT

The differences in the results between the parent sample PZ-37D and field duplicate sample 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 REVIEW REPORT

DATA VALIDATION CHECKLIST FOR METALS

METALS: SW-846 6010D/6020B/7470A	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES)					
Inductively Coupled Plasma-Mass Spectrometry (ICP-MS)					
Cold Vapor Atomic Absorption (CVAA)					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X	X		
B. Equipment/Field Blanks		X	X		
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X		X	
Reporting Limit Verification		X		X	

Notes:

%R Percent recovery

RPD Relative percent difference

DATA REVIEW REPORT

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 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 performed on sample location PZ-37D exhibited recoveries within control limits with the exception presented in the table below.

DATA REVIEW REPORT

Sample Location	Analyte	MS Recovery	MSD Recovery
PZ-37D	Sulfate	56%	42%

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below.

Control limit	Sample Result	Qualification
MS/MSD percent recovery 30% to 74%	Non-detect	UJ
	Detect	J
MS/MSD percent recovery <30%	Non-detect	R
	Detect	J
MS/MSD percent recovery >125%	Non-detect	No Action
	Detect	J

3.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one times the RL is applied for water matrices.

Laboratory duplicate analysis was not performed using a sample from this SDG in association with TDS analysis.

MS/MSD analysis was performed using samples PZ-37D in association with anion analysis in replacement of 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.

DATA REVIEW REPORT

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
PZ-37D / DUP-1	TDS	381	383	0.5%
	Sulfate	178	154	14.5%
	Chloride	4.0	3.9	AC
	Fluoride	0.12	0.12	

Notes:

AC = Acceptable

The differences in the results between the parent sample PZ-37D and field duplicate sample 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 REVIEW REPORT

DATA VALIDATION CHECKLIST FOR GENERAL CHEMISTRY

General Chemistry: SM4500-H+ B, SM2540C, USEPA 300.0	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment blanks		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X	X		
Matrix Spike Duplicate (MSD) %R		X	X		
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X		X	
Dilution Factor		X		X	
Moisture Content	X				X

Notes:

%R Percent recovery

RPD Relative percent difference

DATA REVIEW REPORT

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 reporting limit (RL) of 1 pCi/L.

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 minimum detectable concentration (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:

$$\text{Normalized absolute difference}_{\text{MethodBlank}} = \frac{| \text{Sample} - \text{Blank} |}{\sqrt{(U_{\text{Sample}})^2 + (U_{\text{Blank}})^2}}$$

Where:

U_{Sample} = uncertainty of the sample

U_{Blank} = uncertainty of the blank

Sample = concentration of isotope in sample

Blank = concentration of isotope in blank

DATA REVIEW REPORT

Normalized Absolute Difference	Qualification
> 2.58	None
1.96 > x < 2.58	J
x < 1.96	J*

* = Minimally the result should be qualified as estimated, J; however, if other quality indicators are deficient the validator may determine the result should be qualified as rejected, R

Radium-228, 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 < +/- 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.

x₀ = measured concentration of the unspiked sample.

c = spike concentration added.

u²(x), u²(x₀), u²(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

DATA REVIEW REPORT

the event the DER is outside of the limit of 2.13, a numerical indicator to make assessments is calculated, with a limit of +/- 3 sigma or standard deviation.

The numerical performance indicator for laboratory duplicates is calculated by:

$$Z_{Dup} = \frac{x_1 - x_2}{\sqrt{u^2(x_1) + u^2(x_2)}}$$

Where:

x_1, x_2 = two measured activity concentrations.

$u^2(x_1), u^2(x_2)$ = the combined standard uncertainty of each measurement squared.

Duplicate sample performance is acceptable when the numerical performance indicator calculation yields a value between +/- 3 sigma. Warning limits have been established as +/- 2 sigma.

Laboratory duplicate analysis was not performed using a sample from this SDG.

4. Field Duplicate Analysis

The field duplicate sample analysis is used to assess the overall precision of the field sampling procedures and analytical method. For results greater than five times the MDC, a control limit of 35 percent for water matrices is applied to the RPD between the parent and field duplicate sample results. If the parent and field duplicate sample results are less than five times the MDC, for water matrices a control limit of two times the MDC is applied to the difference between the results.

The field duplicate sample results are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
PZ-37D / DUP-1	Radium-226	2.70 ± 0.530	2.47 ± 0.489	8.9%
	Radium-228	2.66 ± 0.740	1.70 ± 0.569	AC
	Total Radium	5.36 ± 1.27	4.17 ± 1.06	

Notes:

AC = Acceptable

The differences in the results between the parent sample PZ-37D and field duplicate sample DUP-1 were acceptable.

5. Tracer or Carrier

Tracers and carriers are used in radiological separation methods to provide evaluation of chemical separation. Chemical yield is evaluated through the recovery of chemical species spiked into samples. Yield is evaluated radiometrically with a tracer and gravimetrically with a carrier. A control limit of 30% to 110% is applied to each sample spiked with either a carrier and/or a tracer.

The tracer and carrier analyses exhibited recoveries within the control limits.

DATA REVIEW REPORT

6. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS/LCSD analysis must exhibit a percent recovery between the control limits of 60% to 135%. In the event the recovery is outside of this limit, a numerical indicator to make assessments is calculated, with a limit of +/- 3 sigma.

The numerical performance indicator for a laboratory control sample is calculated by:

$$Z_{LCS} = \frac{x - c}{\sqrt{u^2(x) + u^2(c)}}$$

Where:

x = Analytical result of the LCS

c = Known concentration of the LCS

$u^2(x)$ = combined standard uncertainty of the result squared.

$u^2(c)$ = combined standard uncertainty of the LCS value squared.

LCS performance is acceptable when the numerical performance indicator calculation yields a value between +/- 3 sigma. Warning limits have been established as +/- 2 sigma.

The LCS/LCSD analysis exhibited recoveries within the control limits.

7. Isotope Identification

For sample results to be considered “non-detect”, evaluate data based on the following two criteria. If either one of these criteria is true, the sample result is considered “non-detect”.

1. Sample result is less than the uncertainty and less than the MDC/MDA; or
2. Sample has an uncertainty greater than the result (or indistinguishable from background) or result falls between its uncertainty and its MDC/MDA.

Based on the above criteria sample results should be considered non-detect as follows:

- FB-1 and EB-1 – Radium-226, Radium-228, and total Radium

8. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA REVIEW REPORT

DATA VALIDATION CHECKLIST FOR RADIOLOGICALS

RADIOLOGICALS: SW-846 9315/9320	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Gas-Flow Proportional System					
Tier II Validation					
Holding Times		X		X	
Activity, +/- uncertainty, MDC/MDA		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X		X	
Carrier (Surrogate) %R		X		X	
Tracer (Surrogate) %R		X		X	
Laboratory Control Sample (LCS)		X		X	
Laboratory Control Sample Duplicate (LCSD)		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS) %R	X				X
Matrix Spike Duplicate (MSD) %R	X				X
MS/MSD Precision (RPD)	X				X
Field/Lab Duplicate (RPD)		X		X	

Notes:

%R Percent recovery

RPD Relative percent difference

DATA REVIEW REPORT

VALIDATION PERFORMED BY: Jennifer Singer

SIGNATURE:



DATE: July 20, 2021

PEER REVIEW: Dennis Capria

DATE: August 6, 2021

CHAIN OF CUSTODY / DATA QUALIFIER SUMMARY TABLE



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A	Section B	Section C	Page: <u>1</u> Of <u>1</u>
Send Client Information:	Required Project Information:	Invoice Information:	
any: Georgia Power	Report To: Becky Steever	Attention:	
AS: 1070 Bridge Mill Ave	Copy To:	Company Name:	
n, GA 30114		Address:	
	Purchase Order #:	Pace Quote:	Regulatory Agency
ic: (770)364-6526 Fax:	Project Name: Yates	Pace Project Manager: kevin.herring@pacelabs.com,	State / Location
isted Due Date	Project #:	Pace Profile #: 10840	GA

SAMPLE ID <small>One Character per box. (A-Z, 0-9 /, -) Sample IDs must be unique</small>	MATRIX CODE <small>(see valid codes to left)</small>	CODED	COLLECTED				SAMPLE TEMP AT COLLECTION	Preservatives								Y/N	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)			
			DATE	TIME	DATE	TIME		# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol		Other	Analytes Test						
																		App III & IV Metals	TDS	Cl, F, SO4		RAD 8316/9320		
PZ-3TD (051321)			5/13	1230																				
FB-01 (051321)			5/13	1130																				
EB-01 (051322)			5/13	1830																				
DUP-01 (051321)			5/13	-																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Becky Steever / Arcadis	5/14/21	0930	<i>[Signature]</i>	5/14/21	0930	22	Y	N	Y

SAMPLER NAME AND SIGNATURE		TEMP In C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	SIGNATURE of SAMPLER:					
Becky Steever	<i>[Signature]</i>					
		DATE Signed:				
		5/14/21				

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92538831	No qualifiers assigned						
92538834	PZ-37D	SW846 6020B	Antimony	0.0030	mg/L	UB	Blank contamination
		EPA 300.0	Sulfate	178	mg/L	J	MS %R <LCL, MSD %R <LCL
	DUP-1	SW846 6020B	Antimony	0.0030	mg/L	UB	Blank contamination

Abbreviations:

%R = percent recovery
 LCL = lower control limit
 mg/L = milligrams per liter
 MS = matrix spike
 MSD = matrix spike duplicate

Qualifiers:

J = estimated result
 UB = not detected due to blank contamination

May 21, 2021

Ms. Lauren Petty
Southern Company
42 Inverness Center Parkway
Birmingham, AL 35242

RE: Project: YATES
Pace Project No.: 92538834

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory on May 14, 2021. 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,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Samantha Thomas
Maribel Vital



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: YATES
Pace Project No.: 92538834

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE SUMMARY

Project: YATES
Pace Project No.: 92538834

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92538834001	PZ-37D	Water	05/13/21 12:30	05/14/21 09:30
92538834002	FB-1	Water	05/13/21 11:30	05/14/21 09:30
92538834003	EB-1	Water	05/13/21 18:30	05/14/21 09:30
92538834004	DUP-1	Water	05/13/21 00:00	05/14/21 09:30

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE ANALYTE COUNT

Project: YATES
Pace Project No.: 92538834

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92538834001	PZ-37D	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92538834002	FB-1	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92538834003	EB-1	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92538834004	DUP-1	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3

PASI-A = Pace Analytical Services - Asheville
PASI-C = Pace Analytical Services - Charlotte
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SUMMARY OF DETECTION

Project: YATES
Pace Project No.: 92538834

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92538834001	PZ-37D					
	Performed by	CUSTOME			05/14/21 14:40	
		R				
	pH	7.79	Std. Units		05/14/21 14:40	
EPA 6010D	Calcium	68.3	mg/L	1.0	05/18/21 16:27	
EPA 6020B	Antimony	0.00052J	mg/L	0.0030	05/19/21 14:44	B
EPA 6020B	Barium	0.015	mg/L	0.0050	05/19/21 14:44	
EPA 6020B	Boron	1.3	mg/L	0.040	05/19/21 14:44	
EPA 6020B	Lead	0.000049J	mg/L	0.0010	05/19/21 14:44	
EPA 6020B	Lithium	0.011J	mg/L	0.030	05/19/21 14:44	
EPA 6020B	Molybdenum	0.0042J	mg/L	0.010	05/19/21 14:44	
SM 2540C-2011	Total Dissolved Solids	381	mg/L	10.0	05/19/21 08:19	
EPA 300.0 Rev 2.1 1993	Chloride	4.0	mg/L	1.0	05/18/21 01:17	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	05/18/21 01:17	M1
EPA 300.0 Rev 2.1 1993	Sulfate	178	mg/L	3.0	05/18/21 15:11	M1
92538834002	FB-1					
EPA 6020B	Antimony	0.0019J	mg/L	0.0030	05/19/21 15:06	B
EPA 6020B	Boron	0.0092J	mg/L	0.040	05/19/21 15:06	
92538834003	EB-1					
EPA 6020B	Antimony	0.00067J	mg/L	0.0030	05/19/21 15:12	B
EPA 6020B	Boron	0.0052J	mg/L	0.040	05/19/21 15:12	
92538834004	DUP-1					
EPA 6010D	Calcium	71.6	mg/L	1.0	05/18/21 17:24	
EPA 6020B	Antimony	0.00044J	mg/L	0.0030	05/19/21 15:18	B
EPA 6020B	Barium	0.015	mg/L	0.0050	05/19/21 15:18	
EPA 6020B	Boron	1.2	mg/L	0.040	05/19/21 15:18	
EPA 6020B	Lead	0.000040J	mg/L	0.0010	05/19/21 15:18	
EPA 6020B	Lithium	0.011J	mg/L	0.030	05/19/21 15:18	
EPA 6020B	Molybdenum	0.0040J	mg/L	0.010	05/19/21 15:18	
SM 2540C-2011	Total Dissolved Solids	383	mg/L	10.0	05/19/21 08:19	
EPA 300.0 Rev 2.1 1993	Chloride	3.9	mg/L	1.0	05/18/21 02:24	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	05/18/21 02:24	
EPA 300.0 Rev 2.1 1993	Sulfate	154	mg/L	3.0	05/18/21 15:56	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92538834

Sample: PZ-37D		Lab ID: 92538834001		Collected: 05/13/21 12:30		Received: 05/14/21 09:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		05/14/21 14:40		
pH	7.79	Std. Units			1		05/14/21 14:40		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	68.3	mg/L	1.0	0.13	1	05/18/21 10:07	05/18/21 16:27	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.00052J	mg/L	0.0030	0.00028	1	05/18/21 13:16	05/19/21 14:44	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00078	1	05/18/21 13:16	05/19/21 14:44	7440-38-2	
Barium	0.015	mg/L	0.0050	0.00071	1	05/18/21 13:16	05/19/21 14:44	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	05/18/21 13:16	05/19/21 14:44	7440-41-7	
Boron	1.3	mg/L	0.040	0.0052	1	05/18/21 13:16	05/19/21 14:44	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	05/18/21 13:16	05/19/21 14:44	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	05/18/21 13:16	05/19/21 14:44	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	05/18/21 13:16	05/19/21 14:44	7440-48-4	
Lead	0.000049J	mg/L	0.0010	0.000036	1	05/18/21 13:16	05/19/21 14:44	7439-92-1	
Lithium	0.011J	mg/L	0.030	0.00081	1	05/18/21 13:16	05/19/21 14:44	7439-93-2	
Molybdenum	0.0042J	mg/L	0.010	0.00069	1	05/18/21 13:16	05/19/21 14:44	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	05/18/21 13:16	05/19/21 14:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	05/18/21 13:16	05/19/21 14:44	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	05/18/21 14:00	05/19/21 11:03	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	381	mg/L	10.0	10.0	1		05/19/21 08:19		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	4.0	mg/L	1.0	0.60	1		05/18/21 01:17	16887-00-6	
Fluoride	0.12	mg/L	0.10	0.050	1		05/18/21 01:17	16984-48-8	M1
Sulfate	178	mg/L	3.0	1.5	3		05/18/21 15:11	14808-79-8	M1

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92538834

Sample: FB-1		Lab ID: 92538834002		Collected: 05/13/21 11:30		Received: 05/14/21 09:30		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.13	1	05/18/21 10:07	05/18/21 16:37	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	0.0019J	mg/L	0.0030	0.00028	1	05/18/21 13:16	05/19/21 15:06	7440-36-0	B	
Arsenic	ND	mg/L	0.0050	0.00078	1	05/18/21 13:16	05/19/21 15:06	7440-38-2		
Barium	ND	mg/L	0.0050	0.00071	1	05/18/21 13:16	05/19/21 15:06	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	05/18/21 13:16	05/19/21 15:06	7440-41-7		
Boron	0.0092J	mg/L	0.040	0.0052	1	05/18/21 13:16	05/19/21 15:06	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00012	1	05/18/21 13:16	05/19/21 15:06	7440-43-9		
Chromium	ND	mg/L	0.0050	0.00055	1	05/18/21 13:16	05/19/21 15:06	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	05/18/21 13:16	05/19/21 15:06	7440-48-4		
Lead	ND	mg/L	0.0010	0.000036	1	05/18/21 13:16	05/19/21 15:06	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	05/18/21 13:16	05/19/21 15:06	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	05/18/21 13:16	05/19/21 15:06	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0016	1	05/18/21 13:16	05/19/21 15:06	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	05/18/21 13:16	05/19/21 15:06	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	05/18/21 14:00	05/19/21 11:12	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		05/19/21 08:19			
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		05/18/21 01:57	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		05/18/21 01:57	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		05/18/21 01:57	14808-79-8		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92538834

Sample: EB-1		Lab ID: 92538834003		Collected: 05/13/21 18:30		Received: 05/14/21 09:30		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.13	1	05/18/21 10:07	05/18/21 16:41	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	0.00067J	mg/L	0.0030	0.00028	1	05/18/21 13:16	05/19/21 15:12	7440-36-0	B	
Arsenic	ND	mg/L	0.0050	0.00078	1	05/18/21 13:16	05/19/21 15:12	7440-38-2		
Barium	ND	mg/L	0.0050	0.00071	1	05/18/21 13:16	05/19/21 15:12	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	05/18/21 13:16	05/19/21 15:12	7440-41-7		
Boron	0.0052J	mg/L	0.040	0.0052	1	05/18/21 13:16	05/19/21 15:12	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00012	1	05/18/21 13:16	05/19/21 15:12	7440-43-9		
Chromium	ND	mg/L	0.0050	0.00055	1	05/18/21 13:16	05/19/21 15:12	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	05/18/21 13:16	05/19/21 15:12	7440-48-4		
Lead	ND	mg/L	0.0010	0.000036	1	05/18/21 13:16	05/19/21 15:12	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	05/18/21 13:16	05/19/21 15:12	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	05/18/21 13:16	05/19/21 15:12	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0016	1	05/18/21 13:16	05/19/21 15:12	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	05/18/21 13:16	05/19/21 15:12	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	05/18/21 14:00	05/19/21 11:15	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		05/19/21 08:19			
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		05/18/21 02:11	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		05/18/21 02:11	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		05/18/21 02:11	14808-79-8		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92538834

Sample: DUP-1		Lab ID: 92538834004		Collected: 05/13/21 00:00		Received: 05/14/21 09:30		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	71.6	mg/L	1.0	0.13	1	05/18/21 10:07	05/18/21 17:24	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	0.00044J	mg/L	0.0030	0.00028	1	05/18/21 13:16	05/19/21 15:18	7440-36-0	B	
Arsenic	ND	mg/L	0.0050	0.00078	1	05/18/21 13:16	05/19/21 15:18	7440-38-2		
Barium	0.015	mg/L	0.0050	0.00071	1	05/18/21 13:16	05/19/21 15:18	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000046	1	05/18/21 13:16	05/19/21 15:18	7440-41-7		
Boron	1.2	mg/L	0.040	0.0052	1	05/18/21 13:16	05/19/21 15:18	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00012	1	05/18/21 13:16	05/19/21 15:18	7440-43-9		
Chromium	ND	mg/L	0.0050	0.00055	1	05/18/21 13:16	05/19/21 15:18	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	05/18/21 13:16	05/19/21 15:18	7440-48-4		
Lead	0.000040J	mg/L	0.0010	0.000036	1	05/18/21 13:16	05/19/21 15:18	7439-92-1		
Lithium	0.011J	mg/L	0.030	0.00081	1	05/18/21 13:16	05/19/21 15:18	7439-93-2		
Molybdenum	0.0040J	mg/L	0.010	0.00069	1	05/18/21 13:16	05/19/21 15:18	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0016	1	05/18/21 13:16	05/19/21 15:18	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	05/18/21 13:16	05/19/21 15:18	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	05/18/21 14:00	05/19/21 11:24	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	383	mg/L	10.0	10.0	1		05/19/21 08:19			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	3.9	mg/L	1.0	0.60	1		05/18/21 02:24	16887-00-6		
Fluoride	0.12	mg/L	0.10	0.050	1		05/18/21 02:24	16984-48-8		
Sulfate	154	mg/L	3.0	1.5	3		05/18/21 15:56	14808-79-8		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92538834

QC Batch: 621064 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92538834001, 92538834002, 92538834003, 92538834004

METHOD BLANK: 3267639 Matrix: Water
Associated Lab Samples: 92538834001, 92538834002, 92538834003, 92538834004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.13	05/18/21 15:25	

LABORATORY CONTROL SAMPLE: 3267640

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3267641 3267642

Parameter	Units	3267641		3267642		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92538933001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Calcium	mg/L	33100 ug/L	1	1	34.8	33.8	167	75	75-125	3	20 M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92538834

QC Batch: 621135 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92538834001, 92538834002, 92538834003, 92538834004

METHOD BLANK: 3268034 Matrix: Water
Associated Lab Samples: 92538834001, 92538834002, 92538834003, 92538834004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00070J	0.0030	0.00028	05/19/21 14:26	
Arsenic	mg/L	ND	0.0050	0.00078	05/19/21 14:26	
Barium	mg/L	ND	0.0050	0.00071	05/19/21 14:26	
Beryllium	mg/L	ND	0.00050	0.000046	05/19/21 14:26	
Boron	mg/L	ND	0.040	0.0052	05/19/21 14:26	
Cadmium	mg/L	ND	0.00050	0.00012	05/19/21 14:26	
Chromium	mg/L	ND	0.0050	0.00055	05/19/21 14:26	
Cobalt	mg/L	ND	0.0050	0.00038	05/19/21 14:26	
Lead	mg/L	ND	0.0010	0.000036	05/19/21 14:26	
Lithium	mg/L	ND	0.030	0.00081	05/19/21 14:26	
Molybdenum	mg/L	ND	0.010	0.00069	05/19/21 14:26	
Selenium	mg/L	ND	0.0050	0.0016	05/19/21 14:26	
Thallium	mg/L	ND	0.0010	0.00014	05/19/21 14:26	

LABORATORY CONTROL SAMPLE: 3268035

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	105	80-120	
Arsenic	mg/L	0.1	0.099	99	80-120	
Barium	mg/L	0.1	0.099	99	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Boron	mg/L	1	1.0	104	80-120	
Cadmium	mg/L	0.1	0.10	102	80-120	
Chromium	mg/L	0.1	0.097	97	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3268036 3268037

Parameter	Units	92538834001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Antimony	mg/L	0.00052J	0.1	0.1	0.10	0.11	103	105	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92538834

Parameter	Units	3268036		3268037		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92538834001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	0.015	0.1	0.1	0.11	0.11	95	98	75-125	3	20		
Beryllium	mg/L	ND	0.1	0.1	0.091	0.091	91	91	75-125	0	20		
Boron	mg/L	1.3	1	1	2.5	2.4	118	114	75-125	2	20		
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20		
Chromium	mg/L	ND	0.1	0.1	0.098	0.10	97	100	75-125	3	20		
Cobalt	mg/L	ND	0.1	0.1	0.098	0.10	98	102	75-125	4	20		
Lead	mg/L	0.000049J	0.1	0.1	0.096	0.097	96	97	75-125	1	20		
Lithium	mg/L	0.011J	0.1	0.1	0.10	0.10	91	92	75-125	1	20		
Molybdenum	mg/L	0.0042J	0.1	0.1	0.10	0.11	99	104	75-125	5	20		
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	101	101	75-125	0	20		
Thallium	mg/L	ND	0.1	0.1	0.096	0.097	96	97	75-125	1	20		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92538834

QC Batch: 621085 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92538834001, 92538834002, 92538834003, 92538834004

METHOD BLANK: 3267704 Matrix: Water
Associated Lab Samples: 92538834001, 92538834002, 92538834003, 92538834004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	05/19/21 10:53	

LABORATORY CONTROL SAMPLE: 3267705

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3267706 3267707

Parameter	Units	3267706		3267707		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92538834001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Mercury	mg/L	ND	0.0025	0.0025	0.0023	0.0024	93	96	75-125	3	20

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92538834

QC Batch: 621303 Analysis Method: SM 2540C-2011
QC Batch Method: SM 2540C-2011 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92538834001, 92538834002, 92538834003, 92538834004

METHOD BLANK: 3269201 Matrix: Water
Associated Lab Samples: 92538834001, 92538834002, 92538834003, 92538834004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	05/19/21 08:18	

LABORATORY CONTROL SAMPLE: 3269202

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	397	99	90-111	

SAMPLE DUPLICATE: 3269203

Parameter	Units	92538698003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	56.0	71.0	24	10	D6

SAMPLE DUPLICATE: 3269204

Parameter	Units	92539203003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	76.0	96.0	23	10	D6

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92538834

QC Batch: 620938 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: 92538834001, 92538834002, 92538834003, 92538834004

METHOD BLANK: 3267155 Matrix: Water
Associated Lab Samples: 92538834001, 92538834002, 92538834003, 92538834004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	05/17/21 21:42	
Fluoride	mg/L	ND	0.10	0.050	05/17/21 21:42	
Sulfate	mg/L	ND	1.0	0.50	05/17/21 21:42	

LABORATORY CONTROL SAMPLE: 3267156

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.6	99	90-110	
Fluoride	mg/L	2.5	2.4	98	90-110	
Sulfate	mg/L	50	48.3	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3267157 3267158

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92538495031 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	ND	50	50	50.6	50.6	101	101	90-110	0	10		
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	99	98	90-110	0	10		
Sulfate	mg/L	ND	50	50	49.2	49.1	98	98	90-110	0	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3267159 3267160

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92538834001 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	4.0	50	50	54.1	55.3	100	103	90-110	2	10		
Fluoride	mg/L	0.12	2.5	2.5	2.3	2.4	89	90	90-110	2	10	M1	
Sulfate	mg/L	178	50	50	206	199	56	42	90-110	4	10	M1	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALIFIERS

Project: YATES
Pace Project No.: 92538834

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.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES
Pace Project No.: 92538834

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92538834001	PZ-37D				
92538834001	PZ-37D	EPA 3010A	621064	EPA 6010D	621124
92538834002	FB-1	EPA 3010A	621064	EPA 6010D	621124
92538834003	EB-1	EPA 3010A	621064	EPA 6010D	621124
92538834004	DUP-1	EPA 3010A	621064	EPA 6010D	621124
92538834001	PZ-37D	EPA 3005A	621135	EPA 6020B	621237
92538834002	FB-1	EPA 3005A	621135	EPA 6020B	621237
92538834003	EB-1	EPA 3005A	621135	EPA 6020B	621237
92538834004	DUP-1	EPA 3005A	621135	EPA 6020B	621237
92538834001	PZ-37D	EPA 7470A	621085	EPA 7470A	621197
92538834002	FB-1	EPA 7470A	621085	EPA 7470A	621197
92538834003	EB-1	EPA 7470A	621085	EPA 7470A	621197
92538834004	DUP-1	EPA 7470A	621085	EPA 7470A	621197
92538834001	PZ-37D	SM 2540C-2011	621303		
92538834002	FB-1	SM 2540C-2011	621303		
92538834003	EB-1	SM 2540C-2011	621303		
92538834004	DUP-1	SM 2540C-2011	621303		
92538834001	PZ-37D	EPA 300.0 Rev 2.1 1993	620938		
92538834002	FB-1	EPA 300.0 Rev 2.1 1993	620938		
92538834003	EB-1	EPA 300.0 Rev 2.1 1993	620938		
92538834004	DUP-1	EPA 300.0 Rev 2.1 1993	620938		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: Georgia power

Project #: **WO# : 92538834**



Courier: Commercial Fed Ex UPS USPS Client Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: MT 5/14/21

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 230 Type of Ice: Wet Blue None

Cooler Temp: 212 Correction Factor: Add/Subtract (°C) +0.2

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 210

USA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

	Comments/Discrepancy:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8.
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <u>da</u>	
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.

COMMENTS/SAMPLE DISCREPANCY Field Data Required? Yes No

Lot ID of split containers: _____

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



Document Name:
Sample Condition Upon Receipt(SCUR)
 Document No.:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020
 Page 2 of 2
 Issuing Authority:
 Pace Carolinas Quality Office

Project #

WO# : 92538834

PM: KLH1

Due Date: 05/28/21

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

Bottle #	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 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)	BP3A-250 mL Plastic (NH2)2SO4 (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)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section B Required Project Information: Report To: **Betsy Stever** Invoice Information: Attention: Company Name: **Pace Analytical**

Section C Invoice Information: Attention: Company Name: **Pace Analytical** Address: **1070 Bridge Mill Ave N. GA 30114** Pace Quote: **10840** Pace Project Manager: **Kevin.Herring@paceanalytical.com** Pace Profile #: **10840** Regulatory Agency: **GA**

Client Information: City: **Georgia Power** Report To: **Betsy Stever** Purchase Order #: **1070 Bridge Mill Ave** Project Name: **Yates** State / Location: **GA**

SAMPLE ID
One Character per box.
(A-Z, 0-9 / .)

MATRIX CODE: DWLD, WTRD, WTRW, P2, SLD, WPC, APD, OTH, TS

Sample IDs must be unique

PZ-3TD (051321)
EB-01 (051322)
DOR-01 (051321)

ADDITIONAL COMMENTS	REQUISITED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyses Test	Y/N	Requested Analytes Filtered (Y/N)	Residual Chlorine (Y/N)
									Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				
		5/13/13	1130																
		5/13/13	1830																
		5/13/13																	

Betsy Stever

5/14/13

Will

5/14/13

6:30 PM

Y N Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: **Betsy Stever**

SIGNATURE of SAMPLER: *Betsy Stever*

DATE SIGNED: **5/14/13**

TEMP In C

Received on Ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)

June 29, 2021

Ms. Lauren Petty
Southern Company
42 Inverness Center Parkway
Birmingham, AL 35242

RE: Project: YATES RADS
Pace Project No.: 92538831

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory on May 14, 2021. 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,



Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Samantha Thomas
Maribel Vital



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: YATES RADS
Pace Project No.: 92538831

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 #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE SUMMARY

Project: YATES RADS

Pace Project No.: 92538831

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92538831001	PZ-37D	Water	05/13/21 12:30	05/14/21 09:30
92538831002	FB-1	Water	05/13/21 11:30	05/14/21 09:30
92538831003	EB-1	Water	05/13/21 18:30	05/14/21 09:30
92538831004	DUP-1	Water	05/13/21 00:00	05/14/21 09:30

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE ANALYTE COUNT

Project: YATES RADS

Pace Project No.: 92538831

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92538831001	PZ-37D	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92538831002	FB-1	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92538831003	EB-1	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92538831004	DUP-1	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SUMMARY OF DETECTION

Project: YATES RADS
Pace Project No.: 92538831

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92538831001	PZ-37D					
EPA 9315	Radium-226	2.70 ± 0.530 (0.161) C:83% T:NA	pCi/L		06/25/21 10:34	
EPA 9320	Radium-228	2.66 ± 0.740 (0.762) C:64% T:78%	pCi/L		06/07/21 11:16	
Total Radium Calculation	Total Radium	5.36 ± 1.27 (0.923)	pCi/L		06/28/21 17:08	
92538831002	FB-1					
EPA 9315	Radium-226	0.0225 ± 0.220 (0.600) C:88% T:NA	pCi/L		06/04/21 08:46	
EPA 9320	Radium-228	0.487 ± 0.440 (0.891) C:60% T:79%	pCi/L		06/07/21 11:16	
Total Radium Calculation	Total Radium	0.510 ± 0.660 (1.49)	pCi/L		06/21/21 20:12	
92538831003	EB-1					
EPA 9315	Radium-226	-0.0213 ± 0.200 (0.591) C:92% T:NA	pCi/L		06/04/21 08:46	
EPA 9320	Radium-228	0.247 ± 0.316 (0.669) C:68% T:85%	pCi/L		06/07/21 11:16	
Total Radium Calculation	Total Radium	0.247 ± 0.516 (1.26)	pCi/L		06/21/21 20:12	
92538831004	DUP-1					
EPA 9315	Radium-226	2.47 ± 0.489 (0.154) C:91% T:NA	pCi/L		06/25/21 10:34	
EPA 9320	Radium-228	1.70 ± 0.569 (0.728) C:63% T:78%	pCi/L		06/07/21 11:16	
Total Radium Calculation	Total Radium	4.17 ± 1.06 (0.882)	pCi/L		06/28/21 17:08	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92538831

Sample: PZ-37D **Lab ID: 92538831001** Collected: 05/13/21 12:30 Received: 05/14/21 09:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	2.70 ± 0.530 (0.161) C:83% T:NA	pCi/L	06/25/21 10:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	2.66 ± 0.740 (0.762) C:64% T:78%	pCi/L	06/07/21 11:16	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	5.36 ± 1.27 (0.923)	pCi/L	06/28/21 17:08	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92538831

Sample: FB-1 **Lab ID: 92538831002** Collected: 05/13/21 11:30 Received: 05/14/21 09:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0225 ± 0.220 (0.600) C:88% T:NA	pCi/L	06/04/21 08:46	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.487 ± 0.440 (0.891) C:60% T:79%	pCi/L	06/07/21 11:16	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.510 ± 0.660 (1.49)	pCi/L	06/21/21 20:12	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92538831

Sample: EB-1 **Lab ID: 92538831003** Collected: 05/13/21 18:30 Received: 05/14/21 09:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.0213 ± 0.200 (0.591) C:92% T:NA	pCi/L	06/04/21 08:46	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.247 ± 0.316 (0.669) C:68% T:85%	pCi/L	06/07/21 11:16	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.247 ± 0.516 (1.26)	pCi/L	06/21/21 20:12	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92538831

Sample: DUP-1 **Lab ID: 92538831004** Collected: 05/13/21 00:00 Received: 05/14/21 09:30 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	2.47 ± 0.489 (0.154) C:91% T:NA	pCi/L	06/25/21 10:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.70 ± 0.569 (0.728) C:63% T:78%	pCi/L	06/07/21 11:16	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	4.17 ± 1.06 (0.882)	pCi/L	06/28/21 17:08	7440-14-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92538831

QC Batch: 449716

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92538831001, 92538831002, 92538831003, 92538831004

METHOD BLANK: 2170082

Matrix: Water

Associated Lab Samples: 92538831001, 92538831002, 92538831003, 92538831004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.470 ± 0.364 (0.712) C:62% T:85%	pCi/L	06/07/21 11:17	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES RADS

Pace Project No.: 92538831

QC Batch: 450480

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92538831001, 92538831002, 92538831003, 92538831004

METHOD BLANK: 2173868

Matrix: Water

Associated Lab Samples: 92538831001, 92538831002, 92538831003, 92538831004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.274 ± 0.327 (0.673) C:95% T:NA	pCi/L	06/04/21 08:45	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALIFIERS

Project: YATES RADS
Pace Project No.: 92538831

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.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES RADS
Pace Project No.: 92538831

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92538831001	PZ-37D	EPA 9315	450480		
92538831002	FB-1	EPA 9315	450480		
92538831003	EB-1	EPA 9315	450480		
92538831004	DUP-1	EPA 9315	450480		
92538831001	PZ-37D	EPA 9320	449716		
92538831002	FB-1	EPA 9320	449716		
92538831003	EB-1	EPA 9320	449716		
92538831004	DUP-1	EPA 9320	449716		
92538831001	PZ-37D	Total Radium Calculation	454327		
92538831002	FB-1	Total Radium Calculation	453438		
92538831003	EB-1	Total Radium Calculation	453438		
92538831004	DUP-1	Total Radium Calculation	454327		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



Document Name:
Sample Condition Upon Receipt(SCUR)
 Document No.:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020
 Page 1 of 2
 Issuing Authority:
 Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition
Upon Receipt

Client Name:

Georgia power

Project

WO# : 92538831



Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *MT 5/14/21*

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer:

IR Gun ID: 230 Type of Ice: Wet Blue None

Cooler Temp:

212 Correction Factor: Add/Subtract (°C) ±0.2

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 210

USA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

Comments/Discrepancy:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix:	<i>da</i>	
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



Document Name:
Sample Condition Upon Receipt(SCUR)
 Document No.:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020
 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, LLHg

** Bottom half of box is to list number of bottles

Project #

WO# : 92538831

PM: KLH1

Due Date: 06/07/21

CLIENT: GA-GA Power

Sample #	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 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)	BP3A-250 mL Plastic (NH2)2SO4 (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)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers).

CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

in A Section B Section C

Client Information:
 Client: Georgia Power
 Address: 1070 Bridge Hill Ave
 City: Atlanta, GA 30114
 Phone: (770) 364-6526
 Fax: (770) 364-6526
 Email: kate@ge.com

Required Project Information:
 Report To: Becky Steever
 Copy To:
 Purchase Order #:
 Project Name: Yates
 Project #:

Invoice Information:
 Attention:
 Company Name:
 Address:
 POC Name:
 POC Title:
 POC Project Manager: Kevin Herring
 POC Email: kevin.herring@pacelabs.com
 POC Phone: 10840

Regulatory Agency:
 State / Location: GA
 QA

SAMPLE ID (A-Z, 0-9 / -)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)
			START	END					Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				
PZ-37D (051321)					5/13/20														
FB-01 (051321)					5/13/20														
FB-01 (051321)					5/13/20														
DUR-01 (051321)					5/13/20														

ADDITIONAL COMMENTS	REQUISITED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Becky Steever/Pacelabs	5/14/20	0830	Will Mac	5/14/20	0930	22 Y N Y

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Becky Steever
 SIGNATURE of SAMPLER: *Becky Steever*
 DATE Shipped: 5/14/20

TEMP in C
 Received on Ice (Y/N)
 Custody Sealed Cooler (Y/N)
 Samples Intact (Y/N)



Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: LAL
Date: 6/4/2021
Worklist: 60915
Matrix: DW

Method Blank Assessment	
MB Sample ID	2173868
MB Concentration:	0.274
MB Counting Uncertainty:	0.325
MB MDC:	0.673
MB Numerical Performance Indicator:	1.66
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCSD (Y or N)?	Y
Count Date:	6/4/2021	LCSD60915	LCSD60915
Spike I.D.:	19-033		
Decay Corrected Spike Concentration (pCi/ml):	24.037		
Volume Used (ml):	0.10		
Aliquot Volume (L, g, F):	0.507		
Target Conc. (pCi/L, g, F):	4.738		
Uncertainty (Calculated):	0.057		
Result (pCi/L, g, F):	4.657		
LCSD/CSD Counting Uncertainty (pCi/L, g, F):	0.897		
Numerical Performance Indicator:	-0.18		
Percent Recovery:	98.30%		
Status vs Numerical Indicator:	Pass		
Status vs Recovery:	Pass		
Upper % Recovery Limits:	125%		
Lower % Recovery Limits:	75%		

Duplicate Sample Assessment		LCSD (Y or N)?	Y
Sample I.D.:	LCSD60915		
Duplicate Sample I.D.:	LCSD60915		
Sample Result (pCi/L, g, F):	4.657		
Sample Result Counting Uncertainty (pCi/L, g, F):	0.897		
Sample Duplicate Result (pCi/L, g, F):	4.978		
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	0.930		
Are sample and/or duplicate results below RL?	NO		
Duplicate Numerical Performance Indicator:	-0.487		
(Based on the LCSD/CSD Percent Recoveries) Duplicate RPD:	5.48%		
Duplicate Status vs Numerical Indicator:	N/A		
Duplicate Status vs RPD:	Pass		
% RPD Limit:	25%		

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:			
Sample I.D.:			
Sample MS I.D.:			
Sample MSD I.D.:			
Spike I.D.:			
MS/MSD Decay Corrected Spike Concentration (pCi/ml):			
Spike Volume Used in MS (ml):			
Spike Volume Used in MSD (ml):			
MS Aliquot (L, g, F):			
MS Target Conc (pCi/L, g, F):			
MSD Aliquot (L, g, F):			
MSD Target Conc. (pCi/L, g, F):			
MS Spike Uncertainty (calculated):			
MSD Spike Uncertainty (calculated):			
Sample Result:			
Sample Matrix Spike Result:			
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):			
Sample Matrix Spike Duplicate Result:			
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):			
MS Numerical Performance Indicator:			
MSD Numerical Performance Indicator:			
MS Percent Recovery:			
MSD Percent Recovery:			
MS Status vs Numerical Indicator:			
MSD Status vs Numerical Indicator:			
MS Status vs Recovery:			
MSD Status vs Recovery:			
MS/MSD Upper % Recovery Limits:			
MS/MSD Lower % Recovery Limits:			

Matrix Spike/Matrix Spike Duplicate Sample Assessment		MS/MSD 1	MS/MSD 2
Sample I.D.:			
Sample MS I.D.:			
Sample MSD I.D.:			
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):			
Sample Matrix Spike Duplicate Result:			
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):			
Duplicate Numerical Performance Indicator:			
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:			
MS/MSD Duplicate Status vs Numerical Indicator:			
MS/MSD Duplicate Status vs RPD:			
% RPD Limit:			

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Handwritten signature

6/18/21

Quality Control Sample Performance Assessment



Test: Ra-228
Analyst: JC2
Date: 6/3/2021
Worklist: 60773
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment

MB Sample ID: 2170082
 MB concentration: 0.470
 M/B 2 Sigma CSU: 0.364
 MB MDC: 0.712
 MB Numerical Performance Indicator: 2.53
 MB Status vs Numerical Indicator: Warning
 MB Status vs MDC: Pass

Laboratory Control Sample Assessment

Count Date:	Spike I.D.:	LCSD (Y or N)?	Y
6/7/2021	LCSD60773	LCSD60773	LCSD60773
Decay Corrected Spike Concentration (pCi/mL):	21-003	21-003	21-003
Volume Used (mL):	37.407	37.407	37.407
Aliquot Volume (L, g, F):	0.10	0.10	0.10
Target Conc. (pCi/L, g, F):	0.816	0.852	0.852
Uncertainty (Calculated):	4.584	4.392	4.392
Result (pCi/L, g, F):	0.225	0.215	0.215
LCSD 2 Sigma CSU (pCi/L, g, F):	4.404	4.759	4.759
Numerical Performance Indicator:	1.013	1.051	1.051
Percent Recovery:	-0.34	0.67	0.67
Status vs Numerical Indicator:	96.08%	108.37%	108.37%
Status vs Recovery:	N/A	N/A	N/A
Upper % Recovery Limit:	Pass	Pass	Pass
Lower % Recovery Limit:	135%	135%	135%
	60%	60%	60%

Duplicate Sample Assessment

Sample I.D.:	Duplicate Sample I.D.:	Enter Duplicate sample IDs if other than LCSD/MSD in the space below.
LCSD60773	LCSD60773	
Sample Result (pCi/L, g, F):	4.404	
Sample Duplicate Result (pCi/L, g, F):	1.013	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	4.759	
Ave sample and/or duplicate results below RL?	1.051	
Duplicate Numerical Performance Indicator:	NO	
Duplicate Percent Recovery:	-0.477	
Duplicate Status vs Numerical Indicator:	12.02%	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Sample Matrix Spike Control Assessment

Sample Collection Date:	Sample I.D.:	MS/MSD 1	MS/MSD 2
6/7/2021	MSD60773		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	21-003		
Spike Volume Used in MS (mL):	37.407		
MS Target Conc. (pCi/L, g, F):	0.816		
MS Aliquot (L, g, F):	0.10		
MSD Target Conc. (pCi/L, g, F):	0.852		
MSD Aliquot (L, g, F):	0.10		
MSD Numerical Performance Indicator:	1.013		
MS Percent Recovery:	0.67		
MSD Status vs Numerical Indicator:	108.37%		
MSD Status vs Recovery:	N/A		
MS/MSD Upper % Recovery Limit:	Pass		
MS/MSD Lower % Recovery Limit:	135%		

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.:	Duplicate Sample I.D.:	Enter Duplicate sample IDs if other than MS/MSD in the space below.
MSD60773	MSD60773	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	4.759	
Matrix Spike Duplicate Result (pCi/L, g, F):	1.051	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	4.759	
Duplicate Numerical Performance Indicator:	NO	
Duplicate Percent Recovery:	-0.477	
MS/MSD Duplicate Status vs Numerical Indicator:	12.02%	
MS/MSD Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Handwritten initials/signature

Handwritten: OM 6/8/21

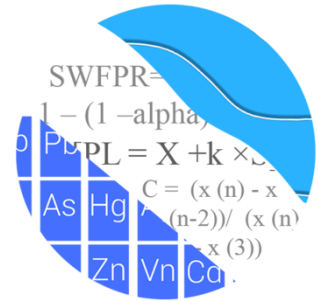
APPENDIX E

Statistical Analysis

Appendix III Statistically Significant Increase Summary (March 2021)

Appendix III Parameter	March 2021
Boron	YGWC-23S, YGWC-38, YGWC-41, YGWC-42, YGWC-43
Calcium	YGWC-38, YGWC-42
Chloride	YGWC-24SA
pH	YGWC-41
Sulfate	YGWC-38, YGWC-42, YGWC-43
Total Dissolved Solids	YGWC-38, YGWC-41, YGWC-42, YGWC-43

GROUNDWATER STATS CONSULTING



August 24, 2021

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
March 2021 Statistical Analysis

Dear Ms. Coker,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the March 2021 semi-annual Groundwater Detection and Assessment Monitoring statistical analysis for Georgia Power Company's Plant Yates Ash Management Area (AMA) and R6 CCR Landfill. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10, and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling for the Appendix III parameters began in 2016, and at least 8 background samples were collected at each of the groundwater monitoring wells. Semi-annual sampling of the majority of Appendix IV constituents has been performed for several years in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations. A list of all parameters is provided below.

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:**
 - **AP-1:** YGWA-47
 - **AP-2:** YGWA-1D, YGWA-1I, YGWA-2I, YGWA-3D, YGWA-3I, YGWA-14S and, YGWA-30I
 - **Gypsum Landfill:** GWA-2
 - **AMA-R6:** YGWA-17S, YGWA-18I, YGWA-18S, YGWA-20S, YGWA-21I, YGWA-39, YGWA-40, YGWA-4I, YGWA-5D, and YGWA-5I
- **Downgradient wells:** YGWC-23S, YGWC-24SA, YGWC-36A, YGWC-38, YGWC-41, YGWC-42, YGWC-43, YGWC-49
- **Delineation wells:** YAMW-1, YAMW-2, YAMW-4, YAMW-5, PZ-35, and PZ-37

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, Groundwater Statistician and Founder of 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. Additionally, when Appendix IV constituents are not detected during a scheduled Scan event, no statistical analyses are required during the semi-annual sample event. During the annual Scan event conducted in February 2021, thallium was not detected; therefore, it was not required to be sampled during the subsequent event. In some cases, upgradient wells at a given unit were not sampled for all constituents if no detections were present at downgradient wells for that particular unit. The following constituents were not detected during their respective Scan events at other Plant Yates units; therefore, upgradient wells at the units listed below were not sampled for these constituents:

- Yates Gypsum Landfill: molybdenum
- Yates AP-1: cadmium, mercury, selenium, and thallium
- Yates AP-2: mercury and thallium

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 should be not be 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 Protections 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.
- 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 and Trend Testing

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. Later, 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.

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.

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.

Appendix III – Determination of Spatial Variation

The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach. Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells are not representative of the current background data

population; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter.

The ANOVA identified variation among upgradient well data for all Appendix III parameters. These constituents were further evaluated during the screening for the appropriateness of intrawell or interwell methods for each constituent. However, interwell methods will be used for all Appendix III constituents in accordance with Georgia EPD requirements.

Statistical Analysis of Appendix III Parameters – March 2021

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, combined with a 1-of-2 resample plan, were constructed using all historical pooled upgradient well data through March 2021 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The most recent sample from each downgradient well is compared to the background limit to determine whether there are statistically significant increases (SSIs). Note that reporting limit changes during this analysis occurred for boron (from <0.1 mg/L to <0.04 mg/L), but there were no changes in statistical limits.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When a resample confirms the initial exceedance, a statistically significant increase is identified and further research would be required to identify the cause of the exceedance (i.e. impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result and, therefore, no exceedance is noted and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. A summary table of the interwell prediction limits follows this letter (Figure D). Prediction limit exceedances were noted for the following Appendix III well/constituent pairs:

- Boron: YGWC-23S, YGWC-38, YGWC-41, YGWC-42, and YGWC-43
- Calcium: YGWC-38 and YGWC-42
- Chloride: YGWC-24SA
- pH: YGWC-41

- Sulfate: YGWC-38, YGWC-42, and YGWC-43
- TDS: YGWC-38, YGWC-41, YGWC-42, and YGWC-43

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 downgradient and associated upgradient well/constituent pairs:

Increasing:

- Boron: YGWC-43
- Calcium: YGWA-1D, GWA-2, YGWA-17S, and YGWA-21I (all upgradient)
- Chloride: YGWA-17S and YGWA-20S (both upgradient)
- pH: YGWA-21I (upgradient)
- Sulfate: YGWA-1D (upgradient), GWA-2 (upgradient), YGWA-3D (upgradient), YGWA-5I (upgradient), and YGWC-43
- TDS: YGWC-43

Decreasing:

- Boron: YGWA-21I (upgradient), YGWC-38, and YGWC-41
- Calcium: YGWA-1I (upgradient), YGWA-5D (upgradient), YGWA-18S (upgradient), YGWA-40 (upgradient), YGWA-47 (upgradient), YGWC-38, and YGWC-42
- Chloride: YGWA-3D, YGWA-3I, YGWA-5D, and YGWA-47 (all upgradient)
- pH: YGWA-5D, YGWA-18S, and YGWA-39 (all upgradient)
- Sulfate: YGWA-5D (upgradient), YGWA-39 (upgradient), YGWA-40 (upgradient), YGWA-47 (upgradient), YGWC-38, YGWC-41, 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 – March 2021

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 for cobalt at upgradient well GWA-2, 0.21 mg/L from March 2021, along with high values 0.20 mg/L and 0.16 mg/L from August and September 2020, were two orders of magnitude higher than the other values for that well. The August and September 2020 values were flagged during the previous analysis, and the March 2021 value was flagged as an outlier during this analysis in order to maintain limits that were conservative from a regulatory perspective. However, since three observations were reported at this level, further study may indicate that the values should not be flagged for future analyses. A summary of flagged outliers follows this report (Figure C).

First, interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data 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. 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).

As described in 40 CFR §257.95(h) (1-3), the Federal 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, CCR-rule specified levels have been specified 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

On July 30, 2018, USEPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Georgia EPD has not incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a); therefore, for sites regulated under Georgia EPD Rules, the State GWPS is:

- The MCL or
- The background concentration when an MCL is not established or when the background concentration is higher than the MCL.

Following the above Georgia EPD Rule requirements and the CCR Rule, Federal and State GWPS were established for Appendix IV constituents for the March 2021 sample event (Figure G). To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the detected Appendix IV constituents in each downgradient well using all historical data through March 2021 according to both Federal and State rules (Figures H and I, respectively). Delineation wells were included when a minimum of 4 samples were available. Note that while a GWPS is established for thallium, no statistical comparison with confidence intervals is required because this constituent was not sampled.

The Sanitas software was used to calculate the tolerance limits and the confidence intervals. Those confidence intervals were compared to the GWPS established using the CCR Rules for the federal requirements and the Georgia EPD Rules 391-3-4-.10(6)(a) for the State requirements. 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. Note that reporting limits decreased for the following constituents during this analysis:

- Beryllium from <0.003 mg/L to <0.0005 mg/L
- Cadmium from <0.0025 mg/L to <0.0005 mg/L
- Chromium from <0.01 mg/L to <0.005 mg/L
- Lead from <0.005 mg/L to <0.001 mg/L
- Mercury from <0.0005 mg/L to <0.0002 mg/L
- Selenium from <0.01 mg/L to <0.005 mg/L

As a result, background limits were lower for these constituents as compared to the previous analysis. However, in all cases for Federal and State confidence intervals, except for lead, which uses the background limit as the GWPS, the established MCL and/or CCR Rule Specified levels were higher than the background limits. Therefore, the GWPS were not affected. Summaries of confidence intervals and complete graphical results follow this letter. For both federal and state confidence intervals, exceedances were noted for the following well/constituent pairs:

Federal:

- Beryllium: YGWC-38
- Selenium: YGWC-38 and PZ-37

State:

- Beryllium: YGWC-38
- Selenium: YGWC-38 and PZ-37

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
Groundwater Statistician

100% Non-Detects: Appendix IV Downgradient and Delineation Wells

Analysis Run 5/6/2021 9:04 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Antimony (mg/L)
YAMW-2

Arsenic (mg/L)
YAMW-1, YAMW-2

Beryllium (mg/L)
YAMW-4

Cadmium (mg/L)
YAMW-2, YAMW-4, YGWC-43, YGWC-24SA

Chromium (mg/L)
YAMW-5

Cobalt (mg/L)
YGWC-23S, YGWC-38, YGWC-24SA

Fluoride (mg/L)
YAMW-1, YAMW-2, YAMW-5, PZ-35

Lithium (mg/L)
YAMW-2, YGWC-24SA

Mercury (mg/L)
YAMW-1, YAMW-2, YAMW-4, YAMW-5, PZ-35, YGWC-24SA, YGWC-36A

Molybdenum (mg/L)
YAMW-2, YAMW-5, YGWC-23S, YGWC-38, YGWC-41, YGWC-24SA

Selenium (mg/L)
YAMW-2, YGWC-43, PZ-35, YGWC-24SA

Thallium (mg/L)
YAMW-1, YAMW-2, YAMW-4, YAMW-5, YGWC-23S, YGWC-38, YGWC-41, YGWC-42, YGWC-43, PZ-35, PZ-37, YGWC-24SA, YGWC-36A

Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/6/2021, 8:46 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	3/4/2021	1.2	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-38	0.16	n/a	3/4/2021	6.4	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-41	0.16	n/a	3/4/2021	4	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-42	0.16	n/a	3/4/2021	14.8	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-43	0.16	n/a	3/4/2021	3.6	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-38	37	n/a	3/4/2021	87	Yes	293	n/a	n/a	1.024	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-42	37	n/a	3/4/2021	90.7	Yes	293	n/a	n/a	1.024	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-24SA	7.9	n/a	3/3/2021	8.6	Yes	293	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-41	8.39	4.86	3/4/2021	4.69	Yes	373	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-38	160	n/a	3/4/2021	356	Yes	293	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-42	160	n/a	3/4/2021	537	Yes	293	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-43	160	n/a	3/4/2021	328	Yes	293	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-38	221.5	n/a	3/4/2021	600	Yes	293	10.01	2.574	0.6826	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-41	221.5	n/a	3/4/2021	224	Yes	293	10.01	2.574	0.6826	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-42	221.5	n/a	3/4/2021	501	Yes	293	10.01	2.574	0.6826	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-43	221.5	n/a	3/4/2021	592	Yes	293	10.01	2.574	0.6826	None	sqrt(x)	0.0009403	Param Inter 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/6/2021, 8:46 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	3/4/2021	1.2	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-38	0.16	n/a	3/4/2021	6.4	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-41	0.16	n/a	3/4/2021	4	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-42	0.16	n/a	3/4/2021	14.8	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-43	0.16	n/a	3/4/2021	3.6	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-49	0.16	n/a	3/4/2021	0.04ND	No	293	n/a	n/a	45.73	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-24SA	0.16	n/a	3/3/2021	0.04ND	No	293	n/a	n/a	45.73	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-36A	0.16	n/a	3/4/2021	0.0088J	No	293	n/a	n/a	45.73	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-23S	37	n/a	3/4/2021	10.2	No	293	n/a	n/a	1.024	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-38	37	n/a	3/4/2021	87	Yes	293	n/a	n/a	1.024	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-41	37	n/a	3/4/2021	16.4	No	293	n/a	n/a	1.024	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-42	37	n/a	3/4/2021	90.7	Yes	293	n/a	n/a	1.024	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-43	37	n/a	3/4/2021	32.2	No	293	n/a	n/a	1.024	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-49	37	n/a	3/4/2021	13	No	293	n/a	n/a	1.024	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-24SA	37	n/a	3/3/2021	2.4	No	293	n/a	n/a	1.024	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-36A	37	n/a	3/4/2021	5.6	No	293	n/a	n/a	1.024	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-23S	7.9	n/a	3/4/2021	1.8	No	293	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-38	7.9	n/a	3/4/2021	3.9	No	293	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-41	7.9	n/a	3/4/2021	3.4	No	293	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-42	7.9	n/a	3/4/2021	2.7	No	293	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-43	7.9	n/a	3/4/2021	2.1	No	293	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-49	7.9	n/a	3/4/2021	4.1	No	293	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-24SA	7.9	n/a	3/3/2021	8.6	Yes	293	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-36A	7.9	n/a	3/4/2021	6.6	No	293	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Fluoride (mg/L)	YGWC-23S	0.68	n/a	3/4/2021	0.1ND	No	362	n/a	n/a	68.51	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-38	0.68	n/a	3/4/2021	0.1ND	No	362	n/a	n/a	68.51	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-41	0.68	n/a	3/4/2021	0.1ND	No	362	n/a	n/a	68.51	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-42	0.68	n/a	3/4/2021	0.1ND	No	362	n/a	n/a	68.51	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-43	0.68	n/a	3/4/2021	0.063J	No	362	n/a	n/a	68.51	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-49	0.68	n/a	3/4/2021	0.1ND	No	362	n/a	n/a	68.51	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-24SA	0.68	n/a	3/3/2021	0.1ND	No	362	n/a	n/a	68.51	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-36A	0.68	n/a	3/4/2021	0.1ND	No	362	n/a	n/a	68.51	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
pH (S.U.)	YGWC-23S	8.39	4.86	3/4/2021	5.44	No	373	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-38	8.39	4.86	3/4/2021	5.01	No	373	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-41	8.39	4.86	3/4/2021	4.69	Yes	373	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-42	8.39	4.86	3/4/2021	5.59	No	373	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-43	8.39	4.86	3/4/2021	5.88	No	373	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-49	8.39	4.86	3/4/2021	5.88	No	373	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-24SA	8.39	4.86	3/3/2021	5.7	No	373	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-36A	8.39	4.86	3/4/2021	5.67	No	373	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-23S	160	n/a	3/4/2021	61.7	No	293	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-38	160	n/a	3/4/2021	356	Yes	293	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-41	160	n/a	3/4/2021	117	No	293	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-42	160	n/a	3/4/2021	537	Yes	293	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-43	160	n/a	3/4/2021	328	Yes	293	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-49	160	n/a	3/4/2021	75.1	No	293	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-24SA	160	n/a	3/3/2021	0.5ND	No	293	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-36A	160	n/a	3/4/2021	6.3	No	293	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-23S	221.5	n/a	3/4/2021	96	No	293	10.01	2.574	0.6826	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-38	221.5	n/a	3/4/2021	600	Yes	293	10.01	2.574	0.6826	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-41	221.5	n/a	3/4/2021	224	Yes	293	10.01	2.574	0.6826	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-42	221.5	n/a	3/4/2021	501	Yes	293	10.01	2.574	0.6826	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-43	221.5	n/a	3/4/2021	592	Yes	293	10.01	2.574	0.6826	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-49	221.5	n/a	3/4/2021	145	No	293	10.01	2.574	0.6826	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-24SA	221.5	n/a	3/3/2021	70	No	293	10.01	2.574	0.6826	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-36A	221.5	n/a	3/4/2021	69	No	293	10.01	2.574	0.6826	None	sqrt(x)	0.0009403	Param Inter 1 of 2

Appendix III Trend Tests - Prediction Limits Exceedances - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/6/2021, 8:52 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-211 (bg)	-0.006801	-60	-58	Yes	16	56.25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-38	-4.08	-56	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-41	-2.779	-44	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-43	0.7481	72	43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.118	59	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.0863	-67	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-211 (bg)	1.232	68	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-40 (bg)	-0.9737	-45	-43	Yes	13	7.692	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-2.574	-62	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWC-38	-30.07	-64	-43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWC-42	-11.87	-44	-43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-2.036	-56	-43	Yes	13	7.692	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	4.949	63	48	Yes	14	7.143	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.7865	60	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.1168	-63	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.3002	76	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.189	71	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.9116	-83	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-47 (bg)	-0.5003	-45	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.06529	-59	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3I (bg)	-0.05699	-66	-58	Yes	16	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-18S (bg)	-0.05702	-88	-81	Yes	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-211 (bg)	0.2015	107	81	Yes	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-39 (bg)	-0.2384	-89	-58	Yes	16	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-5D (bg)	-0.09849	-78	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-3.687	-48	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-12.05	-54	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-3.891	-96	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.09335	70	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWC-38	-145.1	-67	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWC-42	-113.1	-49	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWC-43	54	56	43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-25.19	-71	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)	25.64	66	48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	1.091	76	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.4938	60	58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-40 (bg)	-18.83	-48	-43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5D (bg)	-18.77	-74	-58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-38	-198	-48	-43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-41	-134.8	-62	-43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-42	-168.3	-56	-43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-43	111.1	70	43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-47 (bg)	-14.88	-54	-43	Yes	13	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limits Exceedances - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/6/2021, 8:52 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-17S (bg)	-0.0002497	-11	-58	No	16	12.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-34	-58	No	16	75	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	-0.0003285	-14	-58	No	16	12.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-15	-58	No	16	87.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	-0.006801	-60	-58	Yes	16	56.25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-39 (bg)	0.002402	14	43	No	13	7.692	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)	-0.02279	-41	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-4I (bg)	0	-17	-58	No	16	62.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0001974	12	58	No	16	12.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	-0.0019	-46	-58	No	16	56.25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-23S	-0.1172	-38	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-38	-4.08	-56	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-41	-2.779	-44	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-42	-1.536	-37	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-43	0.7481	72	43	Yes	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-47 (bg)	-0.001291	-39	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-2 (bg)	0	5	48	No	14	57.14	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-14S (bg)	-0.00131	-37	-58	No	16	12.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0	-2	-58	No	16	25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1I (bg)	0	-23	-58	No	16	68.75	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-2I (bg)	0	-18	-58	No	16	75	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-28	-58	No	16	81.25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	-8	-58	No	16	56.25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	-23	-58	No	16	87.5	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.118	59	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18I (bg)	0.02122	10	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.0863	-67	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-20S (bg)	0.09145	54	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-21I (bg)	1.232	68	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-39 (bg)	0.4473	13	43	No	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-40 (bg)	-0.9737	-45	-43	Yes	13	7.692	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-4I (bg)	0.2746	37	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-2.574	-62	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5I (bg)	0.09171	50	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWC-38	-30.07	-64	-43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWC-42	-11.87	-44	-43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-2.036	-56	-43	Yes	13	7.692	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	4.949	63	48	Yes	14	7.143	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-14S (bg)	-0.03659	-46	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.7865	60	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.1168	-63	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-2I (bg)	0.5792	38	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-30I (bg)	0	-6	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3D (bg)	0.7746	48	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3I (bg)	0.43	27	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.3002	76	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-18I (bg)	0.05099	35	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-18S (bg)	0.2082	50	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.189	71	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-21I (bg)	-0.1117	-28	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-39 (bg)	0.2329	13	43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-40 (bg)	0.1751	26	43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-4I (bg)	0.1099	36	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.9116	-83	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5I (bg)	0	-1	-58	No	16	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limits Exceedances - All Results Page 2

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/6/2021, 8:52 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Chloride (mg/L)	YGWA-47 (bg)	-0.5003	-45	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-2 (bg)	0.1272	29	48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-14S (bg)	0.1626	30	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1D (bg)	-0.02735	-40	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1I (bg)	-0.02869	-33	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-2I (bg)	-0.05296	-45	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-30I (bg)	0	-21	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.06529	-59	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3I (bg)	-0.05699	-66	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-24SA	0.4282	54	58	No	16	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-17S (bg)	-0.005007	-36	-74	No	19	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-18I (bg)	-0.01164	-23	-81	No	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-18S (bg)	-0.05702	-88	-81	Yes	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-20S (bg)	0.03	81	81	No	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-21I (bg)	0.2015	107	81	Yes	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-39 (bg)	-0.2384	-89	-58	Yes	16	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-40 (bg)	0.005552	4	58	No	16	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-4I (bg)	-0.02017	-44	-81	No	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-5D (bg)	-0.09849	-78	-74	Yes	19	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-5I (bg)	0	-7	-81	No	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWC-41	0.04117	13	53	No	15	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-47 (bg)	-0.0262	-37	-48	No	14	0	n/a	n/a	0.01	NP
pH (S.U.)	GWA-2 (bg)	-0.03439	-128	-139	No	29	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-14S (bg)	-0.003962	-13	-81	No	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-1D (bg)	-0.06046	-60	-81	No	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-1I (bg)	-0.05767	-78	-81	No	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-2I (bg)	0.005696	10	81	No	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-30I (bg)	0.002608	7	81	No	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-3D (bg)	-0.006892	-11	-81	No	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-3I (bg)	-0.03856	-36	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-17S (bg)	0.1322	51	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18I (bg)	-0.2007	-54	-58	No	16	25	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18S (bg)	-0.1939	-48	-58	No	16	12.5	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-20S (bg)	0	24	58	No	16	62.5	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-21I (bg)	-0.2852	-25	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-3.687	-48	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-12.05	-54	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-4I (bg)	0.1751	39	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-3.891	-96	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.09335	70	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWC-38	-145.1	-67	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWC-42	-113.1	-49	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWC-43	54	56	43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-25.19	-71	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)	25.64	66	48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-14S (bg)	0.09469	17	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	1.091	76	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1I (bg)	-0.2947	-23	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-2I (bg)	0.1728	11	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-30I (bg)	-0.08892	-28	-58	No	16	12.5	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.4938	60	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3I (bg)	0.6094	45	58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-17S (bg)	4.826	22	58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18I (bg)	-2.316	-19	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18S (bg)	3.74	25	58	No	16	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limits Exceedances - All Results Page 3

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/6/2021, 8:52 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Total Dissolved Solids (mg/L)	YGWA-20S (bg)	3.156	31	58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-21I (bg)	15.05	46	58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-39 (bg)	17.14	28	43	No	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-40 (bg)	-18.83	-48	-43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-4I (bg)	1.119	8	58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5D (bg)	-18.77	-74	-58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5I (bg)	-1.204	-7	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-38	-198	-48	-43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-41	-134.8	-62	-43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-42	-168.3	-56	-43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-43	111.1	70	43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-47 (bg)	-14.88	-54	-43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	GWA-2 (bg)	29.32	40	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-14S (bg)	2.021	18	58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-1D (bg)	1.869	13	58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-1I (bg)	-3.828	-26	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-2I (bg)	-3.302	-32	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-30I (bg)	2.131	17	58	No	16	12.5	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3D (bg)	1.956	12	58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3I (bg)	0.9644	5	58	No	16	0	n/a	n/a	0.01	NP

Upper Tolerance Limits Summary Table

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/6/2021, 8:57 PM

Constituent	Upper Lim.	Lower Lim.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.0047	n/a	n/a	315	n/a	n/a	86.03	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	0.005	n/a	n/a	363	n/a	n/a	77.96	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	0.071	n/a	n/a	363	n/a	n/a	3.03	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	0.0005	n/a	n/a	347	n/a	n/a	81.27	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	0.0005	n/a	n/a	347	n/a	n/a	95.68	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	0.0093	n/a	n/a	315	n/a	n/a	77.46	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	0.035	n/a	n/a	360	n/a	n/a	69.72	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	6.92	n/a	n/a	342	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	0.68	n/a	n/a	362	n/a	n/a	68.51	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	0.0013	n/a	n/a	317	n/a	n/a	82.65	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	0.03	n/a	n/a	342	n/a	n/a	27.49	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	0.0002	n/a	n/a	278	n/a	n/a	93.17	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	0.014	n/a	n/a	306	n/a	n/a	59.8	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	0.005	n/a	n/a	345	n/a	n/a	91.59	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	n/a	298	n/a	n/a	96.64	n/a	n/a	NaN	NP Inter(NDs)

YATES AMA-R6 GWPS					
Constituent Name	MCL	CCR-Rule Specified	Background Limit	Federal GWPS	State GWPS
Antimony, Total (mg/L)	0.006		0.0047	0.006	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01	0.01
Barium, Total (mg/L)	2		0.071	2	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005	0.005
Chromium, Total (mg/L)	0.1		0.0093	0.1	0.1
Cobalt, Total (mg/L)		0.006	0.035	0.035	0.035
Combined Radium, Total (pCi/L)	5		6.92	6.92	6.92
Fluoride, Total (mg/L)	4		0.68	4	4
Lead, Total (mg/L)		0.015	0.0013	0.015	0.0013
Lithium, Total (mg/L)		0.04	0.03	0.04	0.03
Mercury, Total (mg/L)	0.002		0.0002	0.002	0.002
Molybdenum, Total (mg/L)		0.1	0.014	0.1	0.014
Selenium, Total (mg/L)	0.05		0.005	0.05	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002	0.002

**Grey cell indicates Background Limit is higher than MCL or CCR Rule Specified Level*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residual*

**GWPS = Groundwater Protection Standard*

Federal Confidence Intervals - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/6/2021, 9:17 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Beryllium (mg/L)	YGWC-38	0.005497	0.004113	0.004	Yes	14	0.004743	0.001073	0	None	x^2	0.01	Param.
Selenium (mg/L)	YGWC-38	0.249	0.076	0.05	Yes	14	0.1755	0.07444	0	None	No	0.01	NP (normality)
Selenium (mg/L)	PZ-37	0.3047	0.2211	0.05	Yes	11	0.2629	0.0502	0	None	No	0.01	Param.

Federal Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/6/2021, 9:17 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	YAMW-1	0.025	0.00037	0.006	No	5	0.006874	0.0102	60	None	No	0.031	NP (NDs)
Antimony (mg/L)	YGWC-23S	0.003	0.00085	0.006	No	16	0.002541	0.0009916	81.25	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-38	0.003	0.00061	0.006	No	13	0.002312	0.001105	69.23	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-41	0.003	0.0014	0.006	No	13	0.002877	0.0004438	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-42	0.003	0.00053	0.006	No	13	0.00281	0.0006851	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-43	0.003	0.00031	0.006	No	13	0.002793	0.0007461	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-49	0.003	0.0011	0.006	No	13	0.002664	0.0008287	84.62	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-35	0.003	0.00039	0.006	No	5	0.002478	0.001167	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	PZ-37	0.003	0.0014	0.006	No	11	0.002614	0.0008911	81.82	None	No	0.006	NP (NDs)
Antimony (mg/L)	YGWC-24SA	0.003	0.0009	0.006	No	16	0.002869	0.000525	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-36A	0.0041	0.0014	0.006	No	16	0.004256	0.006491	50	None	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-23S	0.005	0.0012	0.01	No	18	0.004789	0.0008957	94.44	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-38	0.00212	0.0007623	0.01	No	14	0.001676	0.001497	14.29	None	ln(x)	0.01	Param.
Arsenic (mg/L)	YGWC-41	0.005	0.00062	0.01	No	14	0.00288	0.002208	50	None	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-42	0.003139	0.00143	0.01	No	14	0.002355	0.001306	14.29	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	YGWC-43	0.005	0.00099	0.01	No	14	0.004086	0.001819	78.57	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-49	0.005	0.00086	0.01	No	13	0.004035	0.001835	76.92	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-35	0.005	0.00069	0.01	No	6	0.003608	0.002158	66.67	None	No	0.0155	NP (NDs)
Arsenic (mg/L)	PZ-37	0.005	0.0008	0.01	No	11	0.002504	0.001995	36.36	None	No	0.006	NP (normality)
Arsenic (mg/L)	YGWC-24SA	0.005	0.0015	0.01	No	18	0.004806	0.000825	94.44	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-36A	0.005	0.00088	0.01	No	18	0.004041	0.001847	77.78	None	No	0.01	NP (NDs)
Barium (mg/L)	YAMW-1	0.04981	0.02919	2	No	6	0.0395	0.007503	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-23S	0.04499	0.02913	2	No	18	0.03706	0.01311	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-38	0.0239	0.01832	2	No	14	0.02111	0.003941	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-41	0.03029	0.0206	2	No	14	0.02544	0.00684	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-42	0.04675	0.03191	2	No	14	0.03933	0.01047	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-43	0.03572	0.01774	2	No	14	0.02673	0.01269	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-49	0.07999	0.06987	2	No	13	0.07493	0.006807	0	None	No	0.01	Param.
Barium (mg/L)	PZ-35	0.063	0.032	2	No	6	0.04	0.01166	0	None	No	0.0155	NP (normality)
Barium (mg/L)	PZ-37	0.05778	0.04078	2	No	11	0.04928	0.0102	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-24SA	0.0203	0.0189	2	No	18	0.02053	0.003411	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-36A	0.04411	0.03184	2	No	18	0.03797	0.01014	0	None	No	0.01	Param.
Beryllium (mg/L)	YAMW-1	0.0005	0.000058	0.004	No	6	0.0004047	0.0001776	66.67	None	No	0.0155	NP (NDs)
Beryllium (mg/L)	YAMW-5	0.0002156	0.00005244	0.004	No	4	0.000134	0.00003593	0	None	No	0.01	Param.
Beryllium (mg/L)	YGWC-23S	0.0005	0.000081	0.004	No	18	0.0002109	0.0001859	27.78	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-38	0.005497	0.004113	0.004	Yes	14	0.004743	0.001073	0	None	x^2	0.01	Param.
Beryllium (mg/L)	YGWC-41	0.0038	0.002	0.004	No	14	0.003	0.000862	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-42	0.0005	0.000067	0.004	No	14	0.0003503	0.0002087	64.29	None	No	0.01	NP (NDs)
Beryllium (mg/L)	YGWC-43	0.00053	0.0003	0.004	No	14	0.0004286	0.000133	42.86	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-49	0.00013	0.0001	0.004	No	13	0.0001408	0.0001088	7.692	None	No	0.01	NP (normality)
Beryllium (mg/L)	PZ-35	0.0004361	0.0002224	0.004	No	7	0.0003871	0.0001188	28.57	Kaplan-Meier	No	0.01	Param.
Beryllium (mg/L)	PZ-37	0.0003331	0.0002091	0.004	No	11	0.0003355	0.0001069	18.18	Kaplan-Meier	No	0.01	Param.
Beryllium (mg/L)	YGWC-24SA	0.00016	0.0001	0.004	No	18	0.0001811	0.000149	16.67	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-36A	0.0003195	0.0001904	0.004	No	18	0.0002549	0.0001067	5.56	None	No	0.01	Param.
Cadmium (mg/L)	YAMW-1	0.0005	0.00013	0.005	No	6	0.0003233	0.000194	50	None	No	0.0155	NP (normality)
Cadmium (mg/L)	YGWC-23S	0.0005	0.00007	0.005	No	18	0.0004761	0.0001014	94.44	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-38	0.002798	0.002139	0.005	No	14	0.00235	0.0006149	0	None	x^4	0.01	Param.
Cadmium (mg/L)	YGWC-41	0.0005	0.00017	0.005	No	14	0.0002886	0.0001446	28.57	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-42	0.0006	0.00017	0.005	No	14	0.0003764	0.0001667	42.86	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-49	0.0005	0.00007	0.005	No	13	0.0004669	0.0001193	92.31	None	No	0.01	NP (NDs)
Cadmium (mg/L)	PZ-35	0.0005	0.00016	0.005	No	6	0.0004433	0.0001388	83.33	None	No	0.0155	NP (NDs)
Cadmium (mg/L)	PZ-37	0.0006329	0.0002453	0.005	No	11	0.0004727	0.0002328	18.18	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	YGWC-36A	0.0005	0.00015	0.005	No	18	0.0002433	0.0001453	22.22	None	No	0.01	NP (normality)
Chromium (mg/L)	YAMW-1	0.001163	0.0003768	0.1	No	4	0.00077	0.0001732	0	None	No	0.01	Param.
Chromium (mg/L)	YGWC-23S	0.005	0.0008	0.1	No	14	0.003296	0.002061	57.14	None	No	0.01	NP (NDs)

Federal Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/6/2021, 9:17 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	YGWC-38	0.005	0.00065	0.1	No	14	0.004368	0.001607	85.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-41	0.005	0.00039	0.1	No	14	0.004671	0.001232	92.86	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-42	0.005	0.0013	0.1	No	14	0.004095	0.001807	78.57	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-43	0.005	0.00071	0.1	No	14	0.003755	0.002043	71.43	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-49	0.002	0.0014	0.1	No	12	0.001958	0.0009839	8.333	None	No	0.01	NP (normality)
Chromium (mg/L)	PZ-35	0.0012	0.0006	0.1	No	4	0.0007775	0.0002852	0	None	No	0.0625	NP (normality)
Chromium (mg/L)	PZ-37	0.005	0.0017	0.1	No	11	0.004055	0.001633	72.73	None	No	0.006	NP (NDs)
Chromium (mg/L)	YGWC-24SA	0.005	0.0011	0.1	No	14	0.004153	0.001684	78.57	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-36A	0.005	0.0013	0.1	No	14	0.004034	0.001699	71.43	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YAMW-1	0.02859	0.004268	0.035	No	7	0.01643	0.01106	28.57	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	YGWC-41	0.005	0.00069	0.035	No	14	0.003742	0.002072	71.43	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-42	0.0025	0.0017	0.035	No	14	0.0022	0.0008927	7.143	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-43	0.005	0.0016	0.035	No	14	0.00325	0.001688	42.86	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-49	0.005	0.0006	0.035	No	13	0.003654	0.002103	69.23	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-35	0.0059	0.005	0.035	No	6	0.00515	0.0003674	83.33	None	No	0.0155	NP (NDs)
Cobalt (mg/L)	PZ-37	0.0129	0.004336	0.035	No	11	0.008618	0.005139	0	None	No	0.01	Param.
Cobalt (mg/L)	YGWC-36A	0.005	0.0006	0.035	No	18	0.003761	0.002058	72.22	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	YAMW-1	0.8723	0.2073	6.92	No	5	0.5398	0.1984	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-23S	0.8108	0.3587	6.92	No	18	0.5848	0.3736	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-38	1.326	0.5981	6.92	No	14	0.962	0.5138	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-41	1.374	0.6299	6.92	No	14	1.032	0.5676	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-42	2.942	1.277	6.92	No	14	2.11	1.175	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-43	4.059	1.333	6.92	No	14	2.696	1.924	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-49	1.175	0.4779	6.92	No	13	0.8266	0.469	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-35	1.075	-0.04565	6.92	No	5	0.5146	0.3343	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-37	2.039	1.437	6.92	No	11	1.749	0.4126	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-24SA	0.7865	0.4799	6.92	No	18	0.6332	0.2534	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-36A	1.095	0.5456	6.92	No	18	0.8205	0.4544	0	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-23S	0.12	0.049	4	No	19	0.09468	0.02023	84.21	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-38	0.24	0.034	4	No	15	0.1616	0.1178	60	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-41	0.11	0.1	4	No	15	0.1007	0.002582	86.67	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-42	0.1	0.06	4	No	15	0.08607	0.02601	73.33	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-43	0.1159	0.05777	4	No	15	0.1069	0.05423	26.67	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-49	0.14	0.06	4	No	14	0.09929	0.02702	57.14	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-37	0.31	0.1	4	No	11	0.1773	0.1198	63.64	None	No	0.006	NP (NDs)
Fluoride (mg/L)	YGWC-24SA	0.1	0.098	4	No	19	0.09637	0.01535	89.47	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-36A	0.1	0.09	4	No	19	0.09242	0.03298	63.16	None	No	0.01	NP (NDs)
Lead (mg/L)	YAMW-1	0.001	0.00019	0.015	No	5	0.000838	0.0003622	80	None	No	0.031	NP (NDs)
Lead (mg/L)	YGWC-23S	0.001	0.00021	0.015	No	16	0.0008016	0.0003629	75	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-38	0.001	0.0001	0.015	No	14	0.0008071	0.0003832	78.57	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-41	0.0011	0.00012	0.015	No	14	0.0007541	0.0004218	64.29	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-42	0.001	0.00009	0.015	No	14	0.0007422	0.0004243	71.43	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-43	0.001	0.00008	0.015	No	14	0.0008682	0.000335	85.71	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-49	0.001	0.000059	0.015	No	13	0.0009276	0.000261	92.31	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-35	0.001	0.000087	0.015	No	5	0.0006474	0.0004833	60	None	No	0.031	NP (NDs)
Lead (mg/L)	PZ-37	0.001	0.000088	0.015	No	11	0.0006066	0.0004535	54.55	None	No	0.006	NP (NDs)
Lead (mg/L)	YGWC-24SA	0.001	0.00036	0.015	No	16	0.0009008	0.0002768	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-36A	0.000658	0.0002358	0.015	No	16	0.0004956	0.0004239	12.5	None	x^(1/3)	0.01	Param.
Lithium (mg/L)	YAMW-1	0.0235	0.0006154	0.04	No	6	0.01255	0.008417	16.67	Kaplan-Meier	No	0.01	Param.
Lithium (mg/L)	YGWC-23S	0.0026	0.0018	0.04	No	18	0.002994	0.003057	5.566	None	No	0.01	NP (normality)
Lithium (mg/L)	YGWC-38	0.008994	0.007591	0.04	No	14	0.008293	0.0009903	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-41	0.0044	0.0025	0.04	No	14	0.004314	0.003188	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	YGWC-42	0.0478	0.02983	0.04	No	14	0.03881	0.01268	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-43	0.01912	0.01164	0.04	No	14	0.01538	0.005279	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-49	0.0039	0.0035	0.04	No	13	0.003708	0.0002465	0	None	No	0.01	NP (normality)

Federal Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/6/2021, 9:17 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	PZ-35	0.015	0.001	0.04	No	6	0.005133	0.006226	16.67	None	No	0.0155	NP (normality)
Lithium (mg/L)	PZ-37	0.03042	0.02345	0.04	No	11	0.02679	0.004677	9.091	None	x^2	0.01	Param.
Lithium (mg/L)	YGWC-36A	0.006884	0.003471	0.04	No	18	0.005478	0.002992	5.556	None	x^(1/3)	0.01	Param.
Mercury (mg/L)	YGWC-23S	0.0002	0.00015	0.002	No	13	0.0001883	0.00003045	84.62	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-38	0.0002	0.00008	0.002	No	11	0.0001743	0.00005804	81.82	None	No	0.006	NP (NDs)
Mercury (mg/L)	YGWC-41	0.0002	0.0002	0.002	No	11	0.0001873	0.00004221	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	YGWC-42	0.0002	0.0002	0.002	No	11	0.0001862	0.00004583	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	YGWC-43	0.0002	0.0002	0.002	No	11	0.0001865	0.00004462	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	YGWC-49	0.0002	0.00014	0.002	No	10	0.0001801	0.0000459	80	None	No	0.011	NP (NDs)
Mercury (mg/L)	PZ-37	0.0002	0.0002	0.002	No	11	0.0001873	0.00004221	90.91	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	YAMW-1	0.004895	0.001572	0.1	No	4	0.004925	0.003462	25	Kaplan-Meier	No	0.01	Param.
Molybdenum (mg/L)	YGWC-42	0.01	0.00094	0.1	No	14	0.00525	0.004314	42.86	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-43	0.01	0.0011	0.1	No	14	0.005679	0.004493	50	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-49	0.01	0.0007	0.1	No	12	0.009225	0.002685	91.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-35	0.01	0.0019	0.1	No	4	0.007975	0.00405	75	None	No	0.0625	NP (NDs)
Molybdenum (mg/L)	PZ-37	0.01	0.0016	0.1	No	11	0.004818	0.004118	36.36	None	No	0.006	NP (normality)
Molybdenum (mg/L)	YGWC-36A	0.01	0.0025	0.1	No	14	0.007071	0.003747	57.14	None	No	0.01	NP (NDs)
Selenium (mg/L)	YAMW-1	0.0025	0.0019	0.05	No	6	0.0024	0.0002449	83.33	None	No	0.0155	NP (NDs)
Selenium (mg/L)	YAMW-4	0.016	0.0018	0.05	No	4	0.0057	0.006875	50	None	No	0.0625	NP (normality)
Selenium (mg/L)	YAMW-5	0.08521	0.01079	0.05	No	4	0.048	0.01639	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-23S	0.03964	0.02677	0.05	No	18	0.03321	0.01064	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-38	0.249	0.076	0.05	Yes	14	0.1755	0.07444	0	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-41	0.06577	0.04363	0.05	No	14	0.0547	0.01563	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-42	0.05735	0.04038	0.05	No	14	0.04886	0.01198	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-49	0.00899	0.006583	0.05	No	13	0.007646	0.00198	7.692	None	x^2	0.01	Param.
Selenium (mg/L)	PZ-37	0.3047	0.2211	0.05	Yes	11	0.2629	0.0502	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-36A	0.002744	0.001829	0.05	No	18	0.002433	0.0005931	33.33	Kaplan-Meier	No	0.01	Param.

State Confidence Intervals - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/6/2021, 9:21 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Beryllium (mg/L)	YGWC-38	0.005497	0.004113	0.004	Yes	14	0.004743	0.001073	0	None	x^2	0.01	Param.
Selenium (mg/L)	YGWC-38	0.249	0.076	0.05	Yes	14	0.1755	0.07444	0	None	No	0.01	NP (normality)
Selenium (mg/L)	PZ-37	0.3047	0.2211	0.05	Yes	11	0.2629	0.0502	0	None	No	0.01	Param.

State Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/6/2021, 9:21 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	YAMW-1	0.025	0.00037	0.006	No	5	0.006874	0.0102	60	None	No	0.031	NP (NDs)
Antimony (mg/L)	YGWC-23S	0.003	0.00085	0.006	No	16	0.002541	0.0009916	81.25	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-38	0.003	0.00061	0.006	No	13	0.002312	0.001105	69.23	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-41	0.003	0.0014	0.006	No	13	0.002877	0.0004438	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-42	0.003	0.00053	0.006	No	13	0.00281	0.0006851	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-43	0.003	0.00031	0.006	No	13	0.002793	0.0007461	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-49	0.003	0.0011	0.006	No	13	0.002664	0.0008287	84.62	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-35	0.003	0.00039	0.006	No	5	0.002478	0.001167	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	PZ-37	0.003	0.0014	0.006	No	11	0.002614	0.0008911	81.82	None	No	0.006	NP (NDs)
Antimony (mg/L)	YGWC-24SA	0.003	0.0009	0.006	No	16	0.002869	0.000525	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-36A	0.0041	0.0014	0.006	No	16	0.004256	0.006491	50	None	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-23S	0.005	0.0012	0.01	No	18	0.004789	0.0008957	94.44	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-38	0.00212	0.0007623	0.01	No	14	0.001676	0.001497	14.29	None	ln(x)	0.01	Param.
Arsenic (mg/L)	YGWC-41	0.005	0.00062	0.01	No	14	0.00288	0.002208	50	None	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-42	0.003139	0.00143	0.01	No	14	0.002355	0.001306	14.29	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	YGWC-43	0.005	0.00099	0.01	No	14	0.004086	0.001819	78.57	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-49	0.005	0.00086	0.01	No	13	0.004035	0.001835	76.92	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-35	0.005	0.00069	0.01	No	6	0.003608	0.002158	66.67	None	No	0.0155	NP (NDs)
Arsenic (mg/L)	PZ-37	0.005	0.0008	0.01	No	11	0.002504	0.001995	36.36	None	No	0.006	NP (normality)
Arsenic (mg/L)	YGWC-24SA	0.005	0.0015	0.01	No	18	0.004806	0.000825	94.44	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-36A	0.005	0.00088	0.01	No	18	0.004041	0.001847	77.78	None	No	0.01	NP (NDs)
Barium (mg/L)	YAMW-1	0.04981	0.02919	2	No	6	0.0395	0.007503	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-23S	0.04499	0.02913	2	No	18	0.03706	0.01311	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-38	0.0239	0.01832	2	No	14	0.02111	0.003941	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-41	0.03029	0.0206	2	No	14	0.02544	0.00684	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-42	0.04675	0.03191	2	No	14	0.03933	0.01047	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-43	0.03572	0.01774	2	No	14	0.02673	0.01269	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-49	0.07999	0.06987	2	No	13	0.07493	0.006807	0	None	No	0.01	Param.
Barium (mg/L)	PZ-35	0.063	0.032	2	No	6	0.04	0.01166	0	None	No	0.0155	NP (normality)
Barium (mg/L)	PZ-37	0.05778	0.04078	2	No	11	0.04928	0.0102	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-24SA	0.0203	0.0189	2	No	18	0.02053	0.003411	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-36A	0.04411	0.03184	2	No	18	0.03797	0.01014	0	None	No	0.01	Param.
Beryllium (mg/L)	YAMW-1	0.0005	0.000058	0.004	No	6	0.0004047	0.0001776	66.67	None	No	0.0155	NP (NDs)
Beryllium (mg/L)	YAMW-5	0.0002156	0.00005244	0.004	No	4	0.000134	0.00003593	0	None	No	0.01	Param.
Beryllium (mg/L)	YGWC-23S	0.0005	0.000081	0.004	No	18	0.0002109	0.0001859	27.78	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-38	0.005497	0.004113	0.004	Yes	14	0.004743	0.001073	0	None	x^2	0.01	Param.
Beryllium (mg/L)	YGWC-41	0.0038	0.002	0.004	No	14	0.003	0.000862	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-42	0.0005	0.000067	0.004	No	14	0.0003503	0.0002087	64.29	None	No	0.01	NP (NDs)
Beryllium (mg/L)	YGWC-43	0.00053	0.0003	0.004	No	14	0.0004286	0.000133	42.86	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-49	0.00013	0.0001	0.004	No	13	0.0001408	0.0001088	7.692	None	No	0.01	NP (normality)
Beryllium (mg/L)	PZ-35	0.0004361	0.0002224	0.004	No	7	0.0003871	0.0001188	28.57	Kaplan-Meier	No	0.01	Param.
Beryllium (mg/L)	PZ-37	0.0003331	0.0002091	0.004	No	11	0.0003355	0.0001069	18.18	Kaplan-Meier	No	0.01	Param.
Beryllium (mg/L)	YGWC-24SA	0.00016	0.0001	0.004	No	18	0.0001811	0.000149	16.67	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-36A	0.0003195	0.0001904	0.004	No	18	0.0002549	0.0001067	5.56	None	No	0.01	Param.
Cadmium (mg/L)	YAMW-1	0.0005	0.00013	0.005	No	6	0.0003233	0.000194	50	None	No	0.0155	NP (normality)
Cadmium (mg/L)	YGWC-23S	0.0005	0.00007	0.005	No	18	0.0004761	0.0001014	94.44	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-38	0.002798	0.002139	0.005	No	14	0.00235	0.0006149	0	None	x^4	0.01	Param.
Cadmium (mg/L)	YGWC-41	0.0005	0.00017	0.005	No	14	0.0002886	0.0001446	28.57	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-42	0.0006	0.00017	0.005	No	14	0.0003764	0.0001667	42.86	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-49	0.0005	0.00007	0.005	No	13	0.0004669	0.0001193	92.31	None	No	0.01	NP (NDs)
Cadmium (mg/L)	PZ-35	0.0005	0.00016	0.005	No	6	0.0004433	0.0001388	83.33	None	No	0.0155	NP (NDs)
Cadmium (mg/L)	PZ-37	0.0006329	0.0002453	0.005	No	11	0.0004727	0.0002328	18.18	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	YGWC-36A	0.0005	0.00015	0.005	No	18	0.0002433	0.0001453	22.22	None	No	0.01	NP (normality)
Chromium (mg/L)	YAMW-1	0.001163	0.0003768	0.1	No	4	0.00077	0.0001732	0	None	No	0.01	Param.
Chromium (mg/L)	YGWC-23S	0.005	0.0008	0.1	No	14	0.003296	0.002061	57.14	None	No	0.01	NP (NDs)

State Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/6/2021, 9:21 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	YGWC-38	0.005	0.00065	0.1	No	14	0.004368	0.001607	85.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-41	0.005	0.00039	0.1	No	14	0.004671	0.001232	92.86	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-42	0.005	0.0013	0.1	No	14	0.004095	0.001807	78.57	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-43	0.005	0.00071	0.1	No	14	0.003755	0.002043	71.43	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-49	0.002	0.0014	0.1	No	12	0.001958	0.0009839	8.333	None	No	0.01	NP (normality)
Chromium (mg/L)	PZ-35	0.0012	0.0006	0.1	No	4	0.0007775	0.0002852	0	None	No	0.0625	NP (normality)
Chromium (mg/L)	PZ-37	0.005	0.0017	0.1	No	11	0.004055	0.001633	72.73	None	No	0.006	NP (NDs)
Chromium (mg/L)	YGWC-24SA	0.005	0.0011	0.1	No	14	0.004153	0.001684	78.57	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-36A	0.005	0.0013	0.1	No	14	0.004034	0.001699	71.43	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YAMW-1	0.02859	0.004268	0.035	No	7	0.01643	0.01106	28.57	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	YGWC-41	0.005	0.00069	0.035	No	14	0.003742	0.002072	71.43	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-42	0.0025	0.0017	0.035	No	14	0.0022	0.0008927	7.143	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-43	0.005	0.0016	0.035	No	14	0.00325	0.001688	42.86	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-49	0.005	0.0006	0.035	No	13	0.003654	0.002103	69.23	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-35	0.0059	0.005	0.035	No	6	0.00515	0.0003674	83.33	None	No	0.0155	NP (NDs)
Cobalt (mg/L)	PZ-37	0.0129	0.004336	0.035	No	11	0.008618	0.005139	0	None	No	0.01	Param.
Cobalt (mg/L)	YGWC-36A	0.005	0.0006	0.035	No	18	0.003761	0.002058	72.22	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	YAMW-1	0.8723	0.2073	6.92	No	5	0.5398	0.1984	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-23S	0.8108	0.3587	6.92	No	18	0.5848	0.3736	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-38	1.326	0.5981	6.92	No	14	0.962	0.5138	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-41	1.374	0.6299	6.92	No	14	1.032	0.5676	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-42	2.942	1.277	6.92	No	14	2.11	1.175	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-43	4.059	1.333	6.92	No	14	2.696	1.924	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-49	1.175	0.4779	6.92	No	13	0.8266	0.469	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-35	1.075	-0.04565	6.92	No	5	0.5146	0.3343	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-37	2.039	1.437	6.92	No	11	1.749	0.4126	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-24SA	0.7865	0.4799	6.92	No	18	0.6332	0.2534	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-36A	1.095	0.5456	6.92	No	18	0.8205	0.4544	0	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-23S	0.12	0.049	4	No	19	0.09468	0.02023	84.21	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-38	0.24	0.034	4	No	15	0.1616	0.1178	60	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-41	0.11	0.1	4	No	15	0.1007	0.002582	86.67	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-42	0.1	0.06	4	No	15	0.08607	0.02601	73.33	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-43	0.1159	0.05777	4	No	15	0.1069	0.05423	26.67	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-49	0.14	0.06	4	No	14	0.09929	0.02702	57.14	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-37	0.31	0.1	4	No	11	0.1773	0.1198	63.64	None	No	0.006	NP (NDs)
Fluoride (mg/L)	YGWC-24SA	0.1	0.098	4	No	19	0.09637	0.01535	89.47	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-36A	0.1	0.09	4	No	19	0.09242	0.03298	63.16	None	No	0.01	NP (NDs)
Lead (mg/L)	YAMW-1	0.001	0.00019	0.0013	No	5	0.000838	0.0003622	80	None	No	0.031	NP (NDs)
Lead (mg/L)	YGWC-23S	0.001	0.00021	0.0013	No	16	0.0008016	0.0003629	75	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-38	0.001	0.0001	0.0013	No	14	0.0008071	0.0003832	78.57	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-41	0.0011	0.00012	0.0013	No	14	0.0007541	0.0004218	64.29	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-42	0.001	0.00009	0.0013	No	14	0.0007422	0.0004243	71.43	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-43	0.001	0.00008	0.0013	No	14	0.0008682	0.000335	85.71	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-49	0.001	0.000059	0.0013	No	13	0.0009276	0.000261	92.31	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-35	0.001	0.000087	0.0013	No	5	0.0006474	0.0004833	60	None	No	0.031	NP (NDs)
Lead (mg/L)	PZ-37	0.001	0.000088	0.0013	No	11	0.0006066	0.0004535	54.55	None	No	0.006	NP (NDs)
Lead (mg/L)	YGWC-24SA	0.001	0.00036	0.0013	No	16	0.0009008	0.0002768	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-36A	0.000658	0.0002358	0.0013	No	16	0.0004956	0.0004239	12.5	None	x^(1/3)	0.01	Param.
Lithium (mg/L)	YAMW-1	0.0235	0.0006154	0.03	No	6	0.01255	0.008417	16.67	Kaplan-Meier	No	0.01	Param.
Lithium (mg/L)	YGWC-23S	0.0026	0.0018	0.03	No	18	0.002994	0.003057	5.566	None	No	0.01	NP (normality)
Lithium (mg/L)	YGWC-38	0.008994	0.007591	0.03	No	14	0.008293	0.0009903	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-41	0.0044	0.0025	0.03	No	14	0.004314	0.003188	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	YGWC-42	0.0478	0.02983	0.03	No	14	0.03881	0.01268	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-43	0.01912	0.01164	0.03	No	14	0.01538	0.005279	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-49	0.0039	0.0035	0.03	No	13	0.003708	0.0002465	0	None	No	0.01	NP (normality)

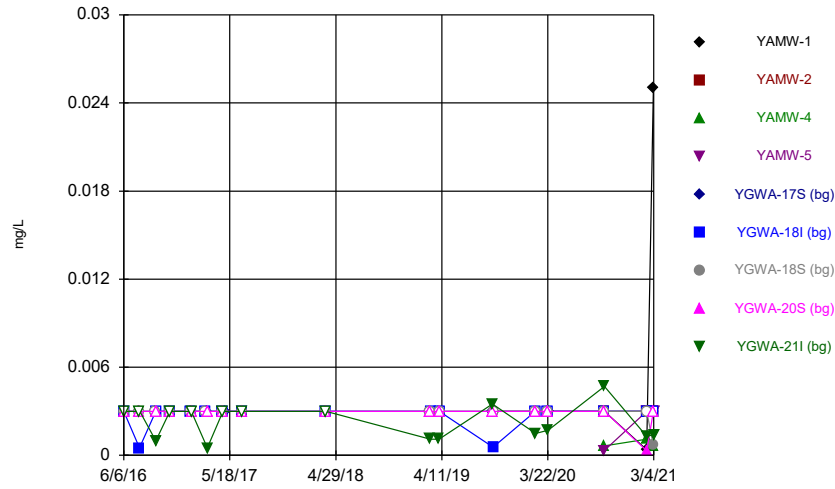
State Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/6/2021, 9:21 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	PZ-35	0.015	0.001	0.03	No	6	0.005133	0.006226	16.67	None	No	0.0155	NP (normality)
Lithium (mg/L)	PZ-37	0.03042	0.02345	0.03	No	11	0.02679	0.004677	9.091	None	x^2	0.01	Param.
Lithium (mg/L)	YGWC-36A	0.006884	0.003471	0.03	No	18	0.005478	0.002992	5.556	None	x^(1/3)	0.01	Param.
Mercury (mg/L)	YGWC-23S	0.0002	0.00015	0.002	No	13	0.0001883	0.00003045	84.62	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-38	0.0002	0.00008	0.002	No	11	0.0001743	0.00005804	81.82	None	No	0.006	NP (NDs)
Mercury (mg/L)	YGWC-41	0.0002	0.0002	0.002	No	11	0.0001873	0.00004221	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	YGWC-42	0.0002	0.0002	0.002	No	11	0.0001862	0.00004583	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	YGWC-43	0.0002	0.0002	0.002	No	11	0.0001865	0.00004462	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	YGWC-49	0.0002	0.00014	0.002	No	10	0.0001801	0.0000459	80	None	No	0.011	NP (NDs)
Mercury (mg/L)	PZ-37	0.0002	0.0002	0.002	No	11	0.0001873	0.00004221	90.91	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	YAMW-1	0.004895	0.001572	0.014	No	4	0.004925	0.003462	25	Kaplan-Meier	No	0.01	Param.
Molybdenum (mg/L)	YGWC-42	0.01	0.00094	0.014	No	14	0.00525	0.004314	42.86	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-43	0.01	0.0011	0.014	No	14	0.005679	0.004493	50	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-49	0.01	0.0007	0.014	No	12	0.009225	0.002685	91.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-35	0.01	0.0019	0.014	No	4	0.007975	0.00405	75	None	No	0.0625	NP (NDs)
Molybdenum (mg/L)	PZ-37	0.01	0.0016	0.014	No	11	0.004818	0.004118	36.36	None	No	0.006	NP (normality)
Molybdenum (mg/L)	YGWC-36A	0.01	0.0025	0.014	No	14	0.007071	0.003747	57.14	None	No	0.01	NP (NDs)
Selenium (mg/L)	YAMW-1	0.0025	0.0019	0.05	No	6	0.0024	0.0002449	83.33	None	No	0.0155	NP (NDs)
Selenium (mg/L)	YAMW-4	0.016	0.0018	0.05	No	4	0.0057	0.006875	50	None	No	0.0625	NP (normality)
Selenium (mg/L)	YAMW-5	0.08521	0.01079	0.05	No	4	0.048	0.01639	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-23S	0.03964	0.02677	0.05	No	18	0.03321	0.01064	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-38	0.249	0.076	0.05	Yes	14	0.1755	0.07444	0	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-41	0.06577	0.04363	0.05	No	14	0.0547	0.01563	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-42	0.05735	0.04038	0.05	No	14	0.04886	0.01198	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-49	0.00899	0.006583	0.05	No	13	0.007646	0.00198	7.692	None	x^2	0.01	Param.
Selenium (mg/L)	PZ-37	0.3047	0.2211	0.05	Yes	11	0.2629	0.0502	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-36A	0.002744	0.001829	0.05	No	18	0.002433	0.0005931	33.33	Kaplan-Meier	No	0.01	Param.

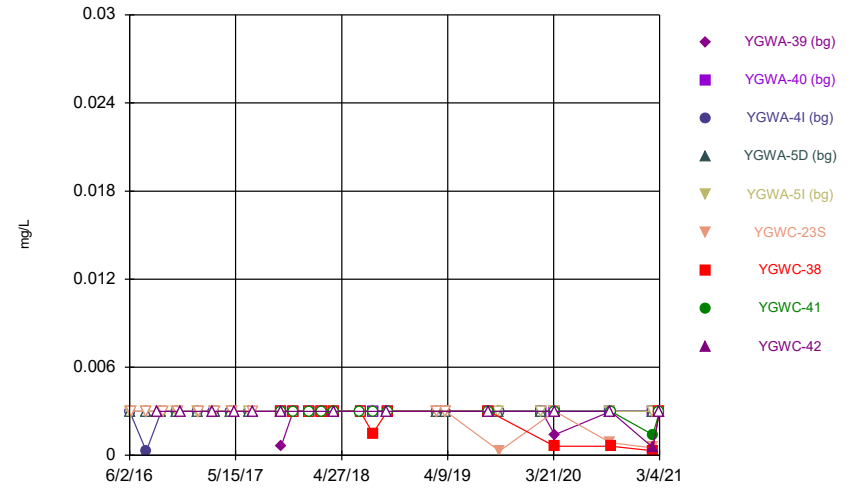
FIGURE A.

Time Series



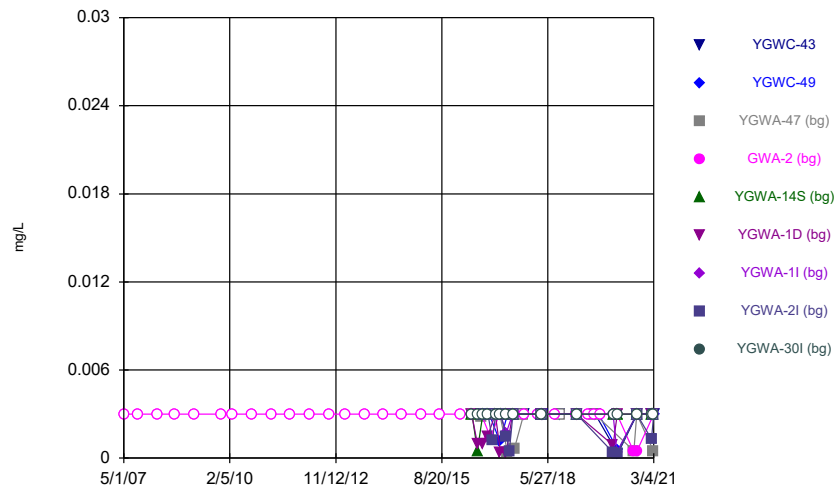
Constituent: Antimony Analysis Run 5/6/2021 8:33 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



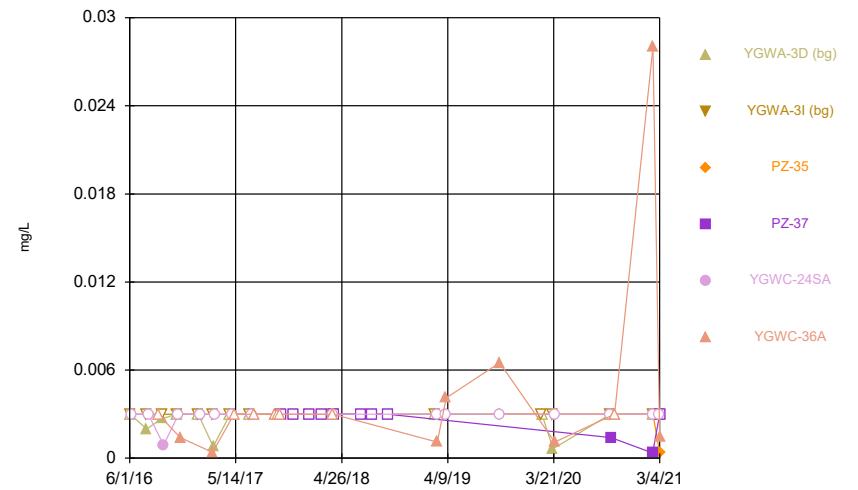
Constituent: Antimony Analysis Run 5/6/2021 8:33 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



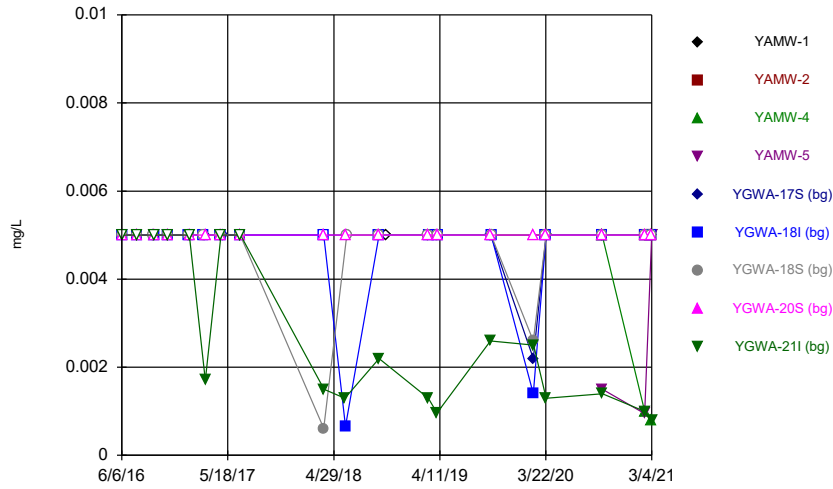
Constituent: Antimony Analysis Run 5/6/2021 8:33 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



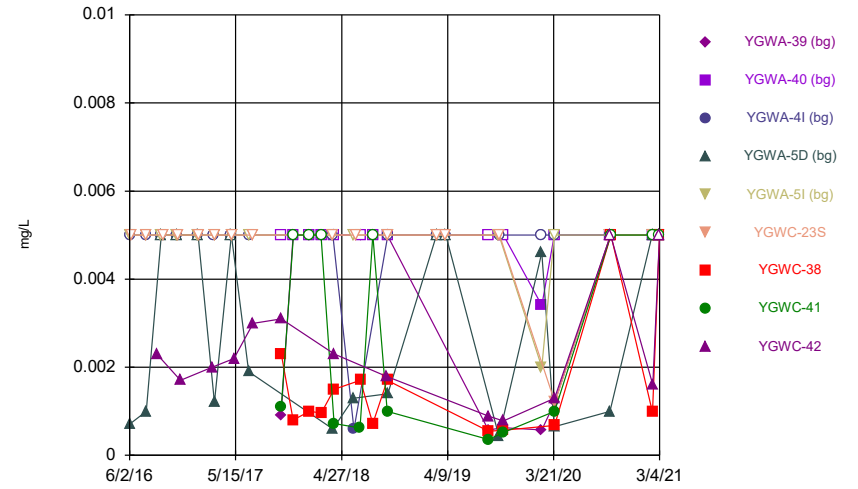
Constituent: Antimony Analysis Run 5/6/2021 8:33 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



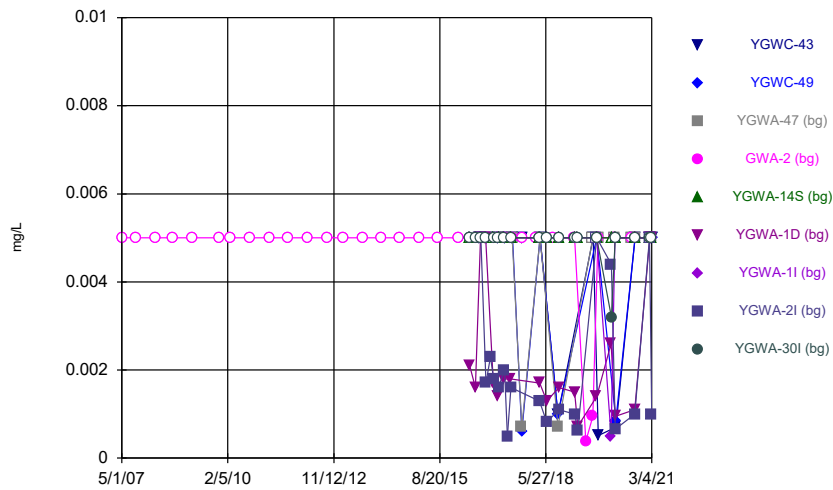
Constituent: Arsenic Analysis Run 5/6/2021 8:33 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



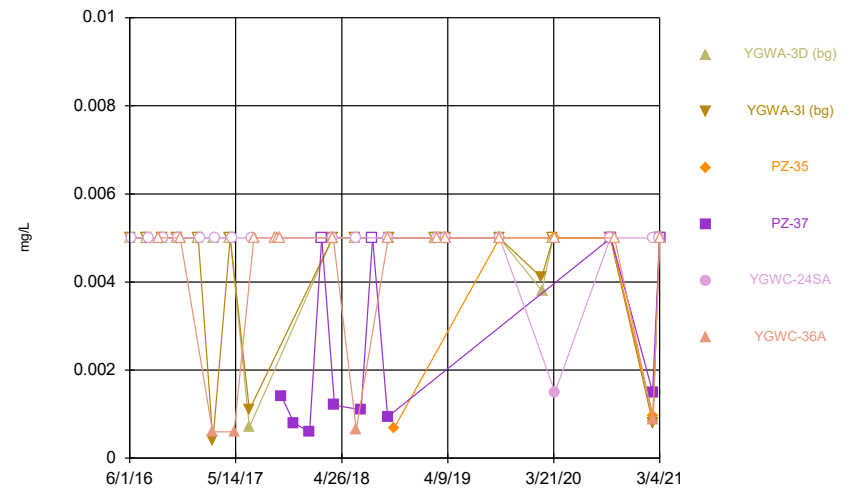
Constituent: Arsenic Analysis Run 5/6/2021 8:33 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



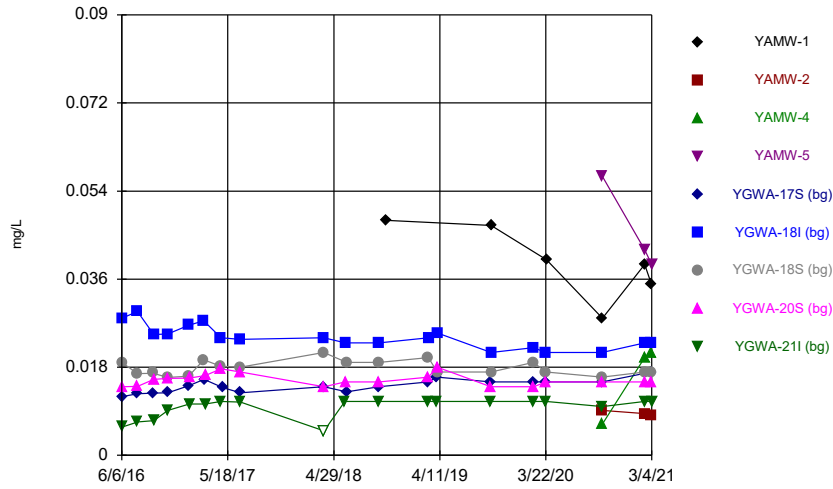
Constituent: Arsenic Analysis Run 5/6/2021 8:33 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



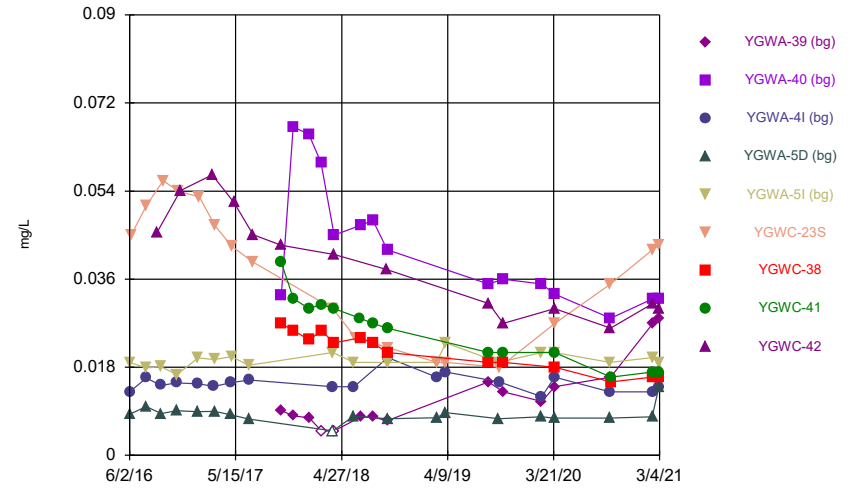
Constituent: Arsenic Analysis Run 5/6/2021 8:33 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



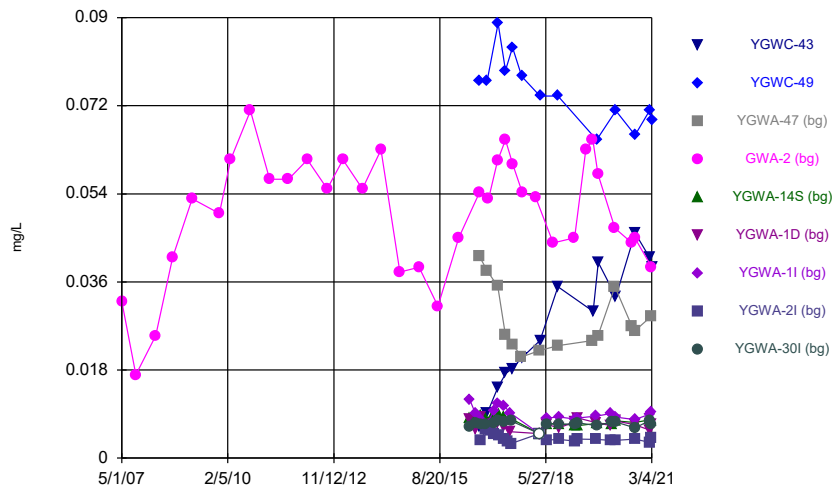
Constituent: Barium Analysis Run 5/6/2021 8:33 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



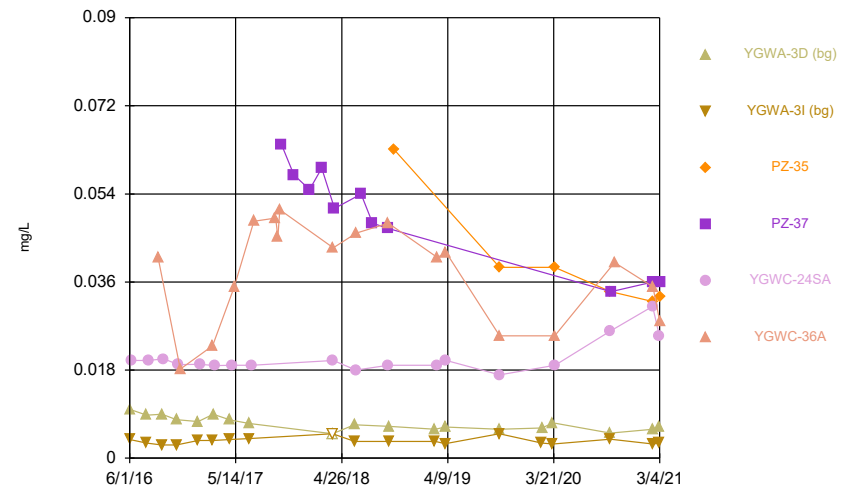
Constituent: Barium Analysis Run 5/6/2021 8:33 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



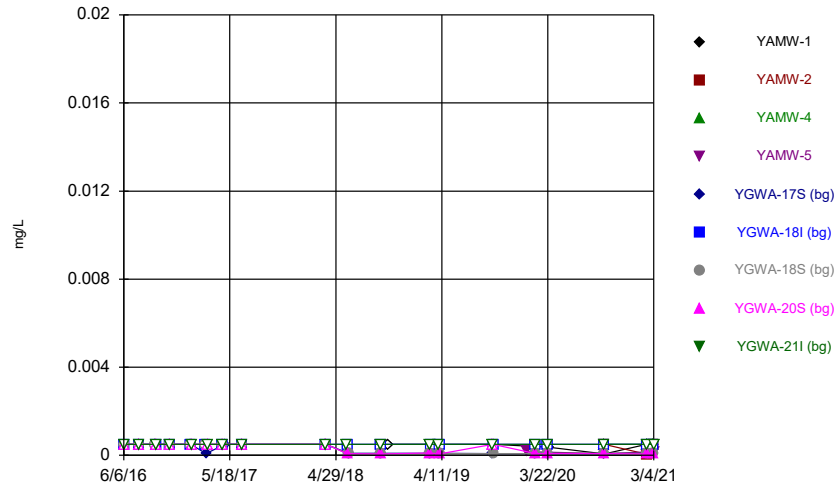
Constituent: Barium Analysis Run 5/6/2021 8:33 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



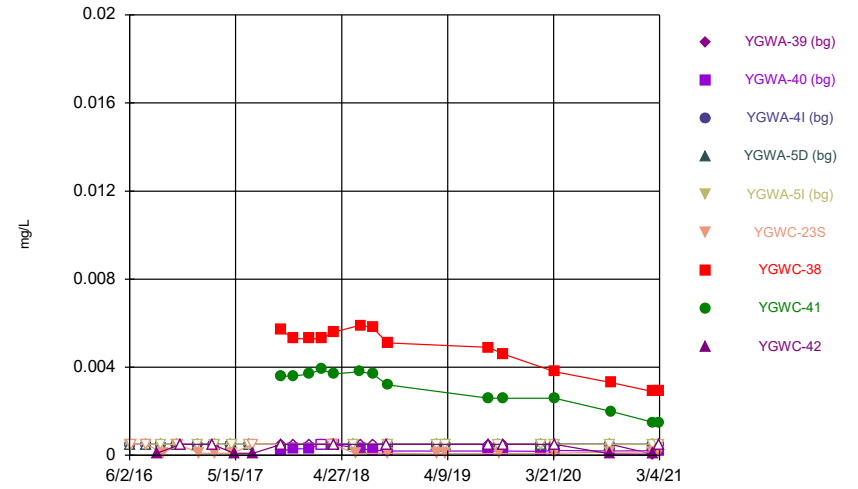
Constituent: Barium Analysis Run 5/6/2021 8:33 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



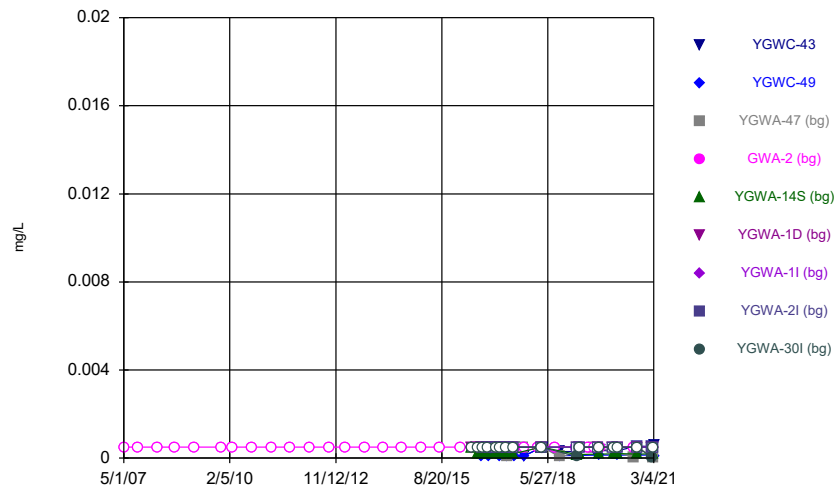
Constituent: Beryllium Analysis Run 5/6/2021 8:33 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



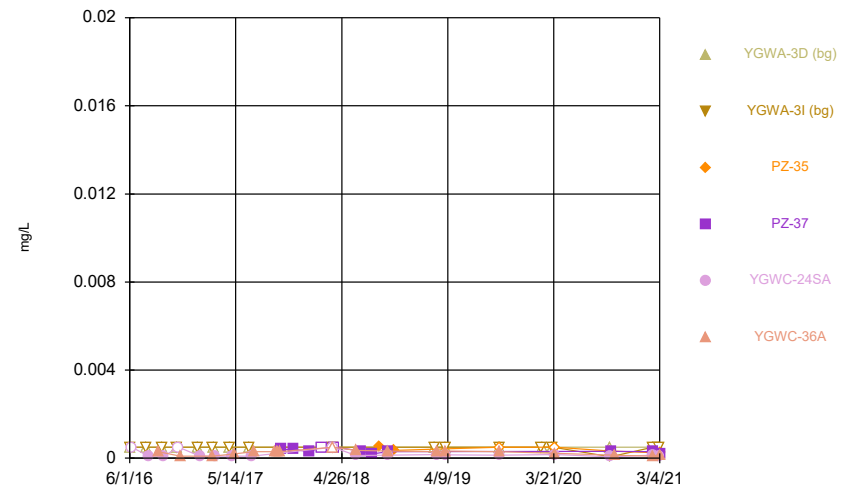
Constituent: Beryllium Analysis Run 5/6/2021 8:33 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



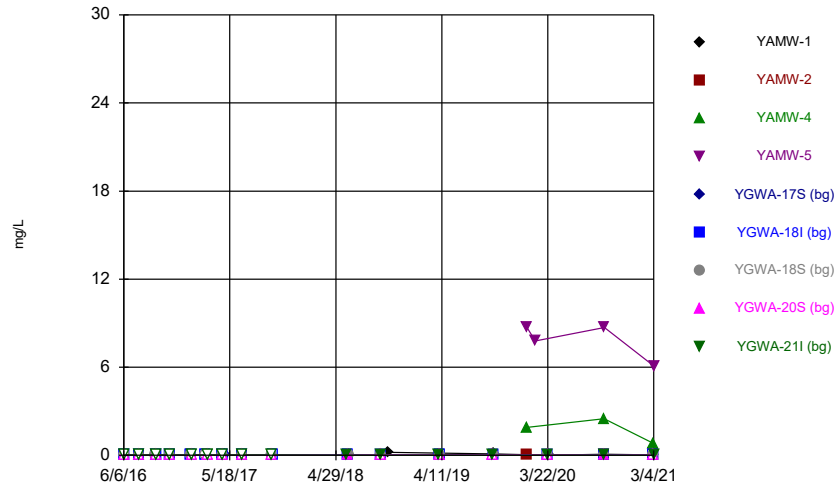
Constituent: Beryllium Analysis Run 5/6/2021 8:33 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



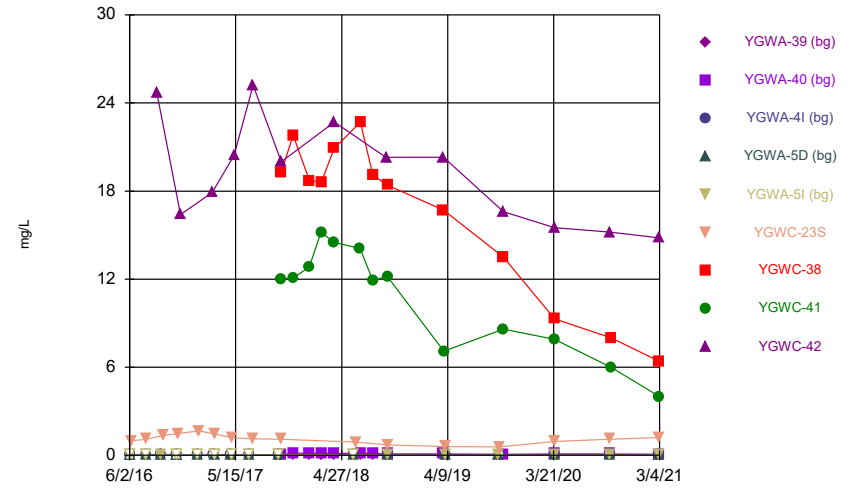
Constituent: Beryllium Analysis Run 5/6/2021 8:33 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



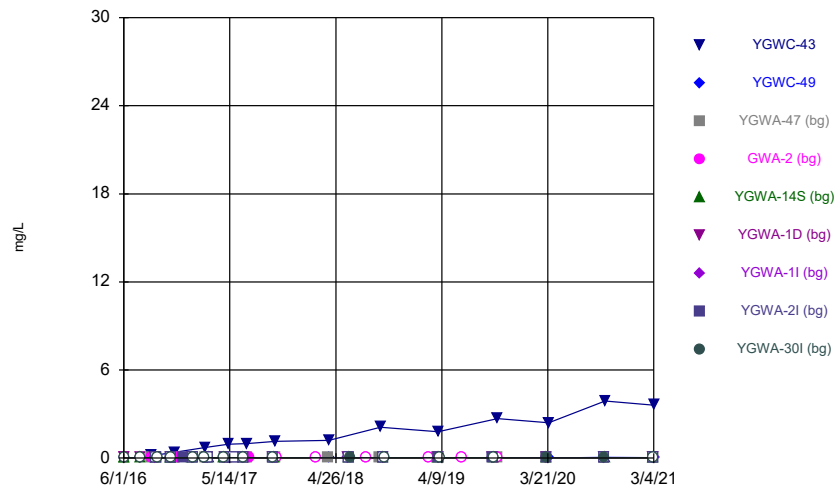
Constituent: Boron Analysis Run 5/6/2021 8:33 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



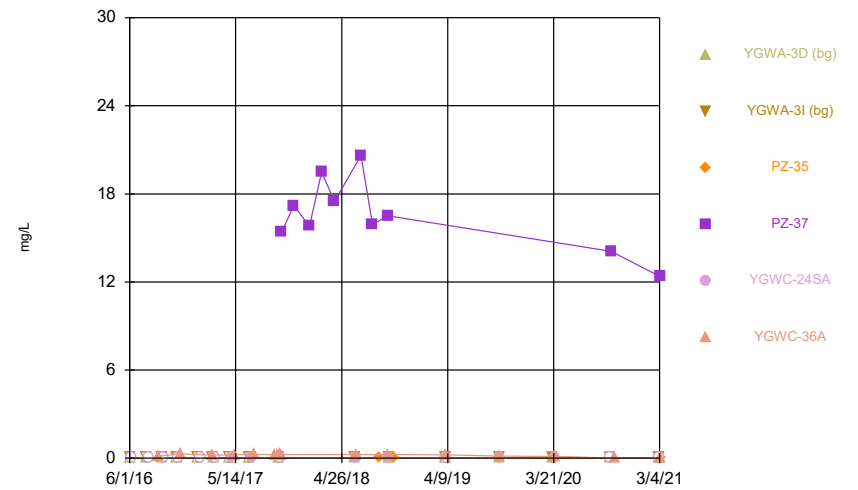
Constituent: Boron Analysis Run 5/6/2021 8:33 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



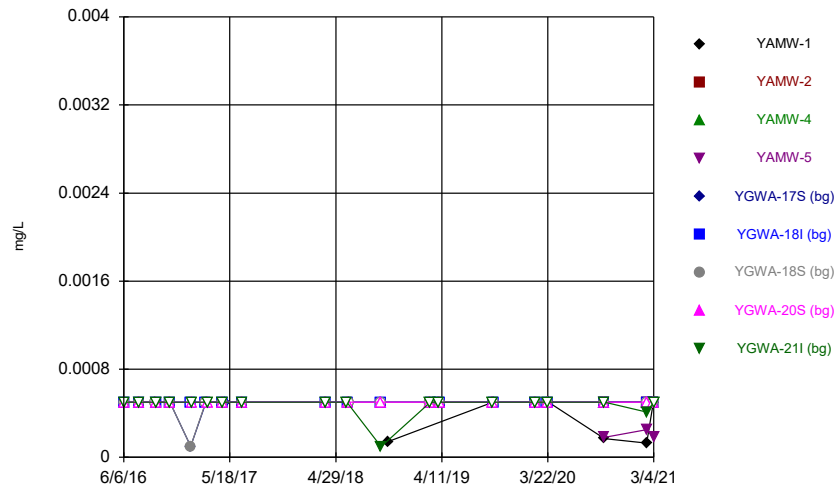
Constituent: Boron Analysis Run 5/6/2021 8:33 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



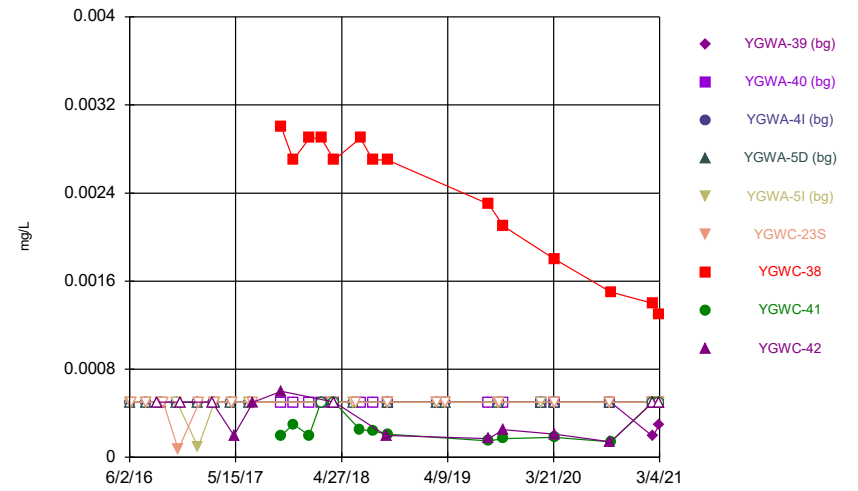
Constituent: Boron Analysis Run 5/6/2021 8:33 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



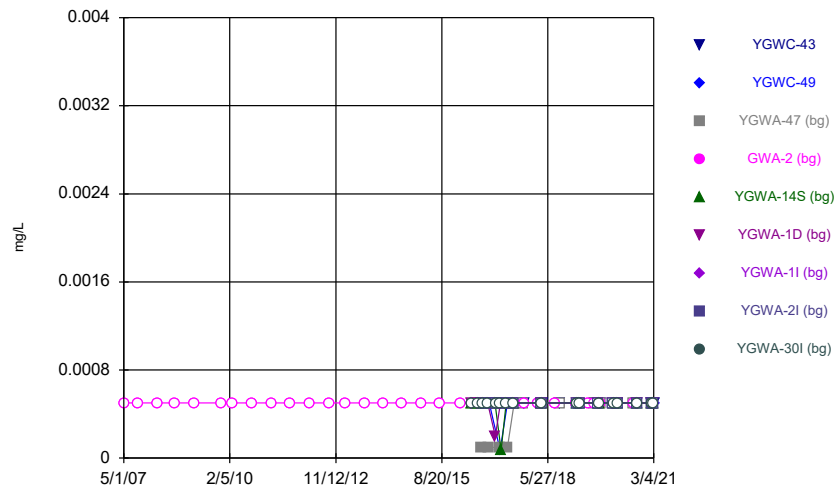
Constituent: Cadmium Analysis Run 5/6/2021 8:33 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



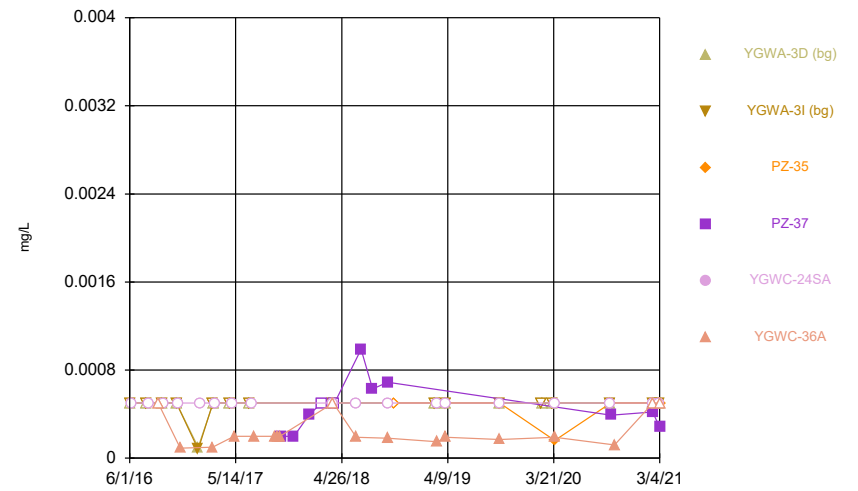
Constituent: Cadmium Analysis Run 5/6/2021 8:33 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



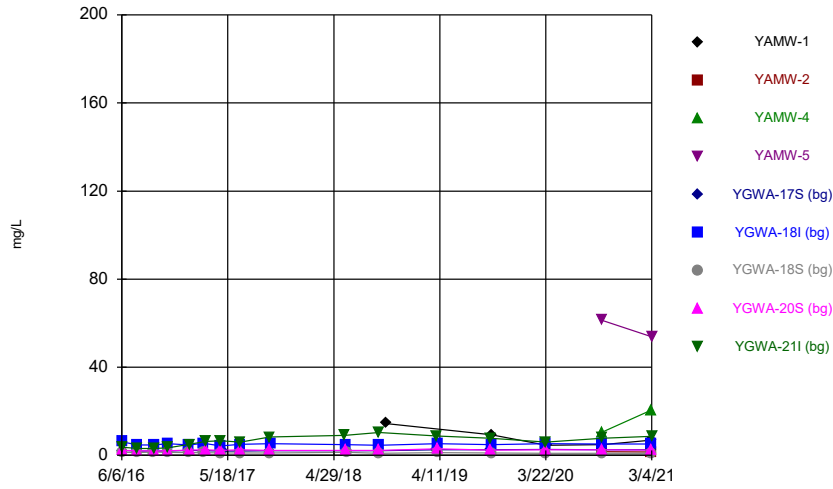
Constituent: Cadmium Analysis Run 5/6/2021 8:33 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



Constituent: Cadmium Analysis Run 5/6/2021 8:33 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

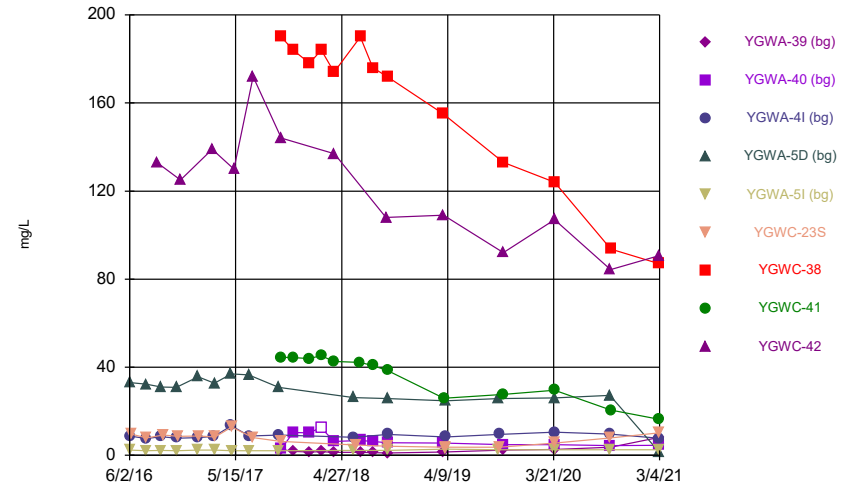
Time Series



Constituent: Calcium Analysis Run 5/6/2021 8:33 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

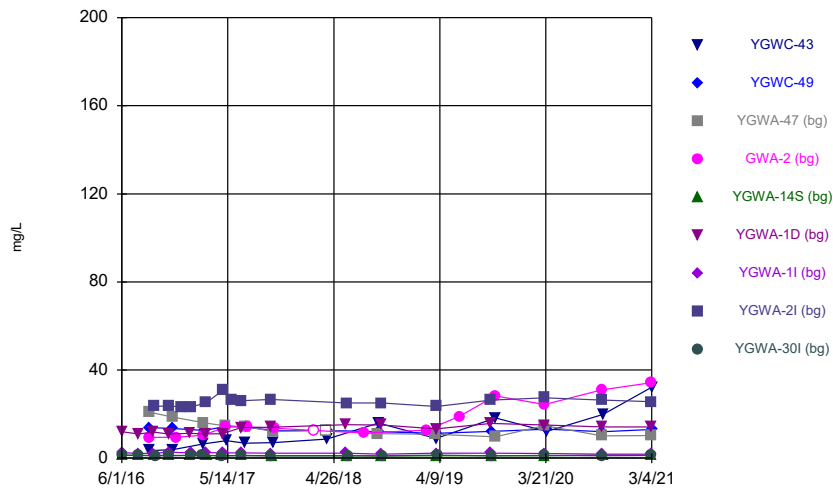
Hollow symbols indicate censored values.

Time Series



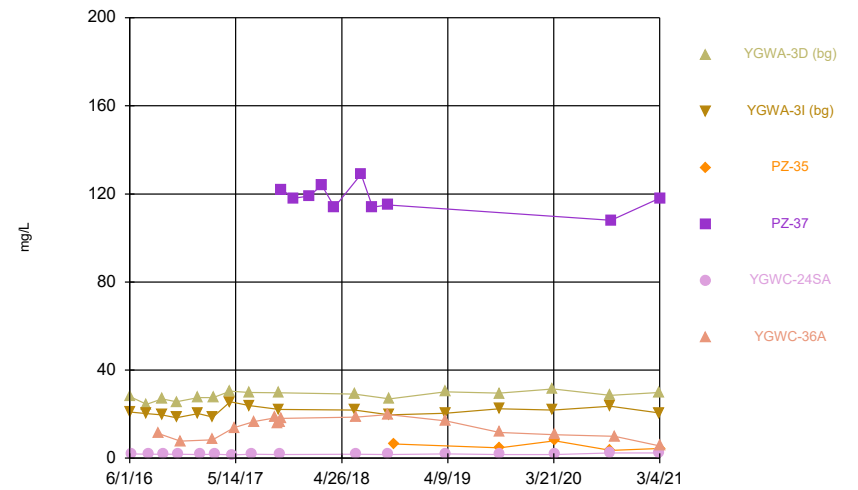
Constituent: Calcium Analysis Run 5/6/2021 8:33 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



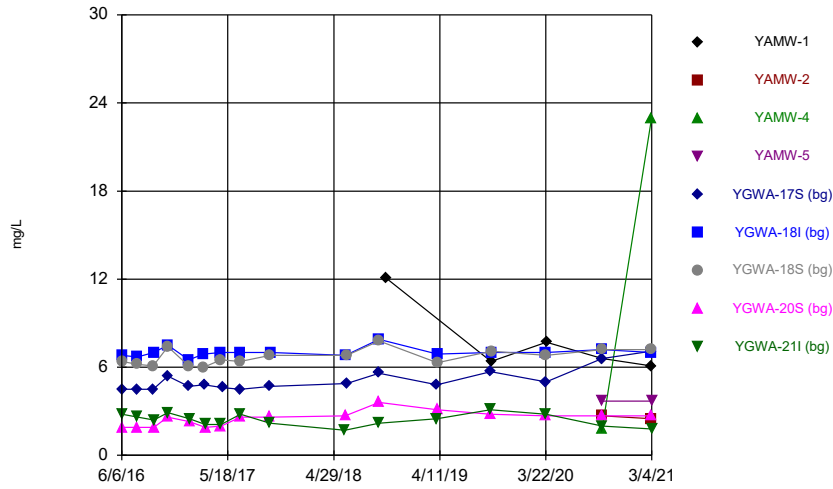
Constituent: Calcium Analysis Run 5/6/2021 8:33 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



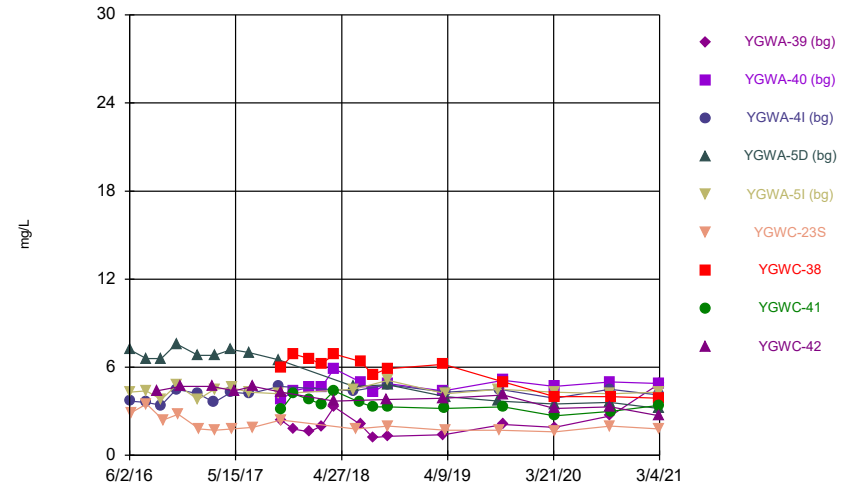
Constituent: Calcium Analysis Run 5/6/2021 8:33 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



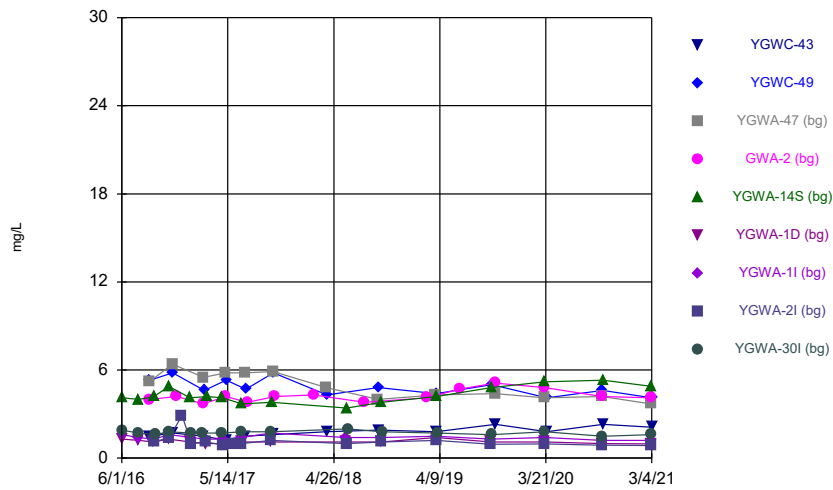
Constituent: Chloride Analysis Run 5/6/2021 8:33 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



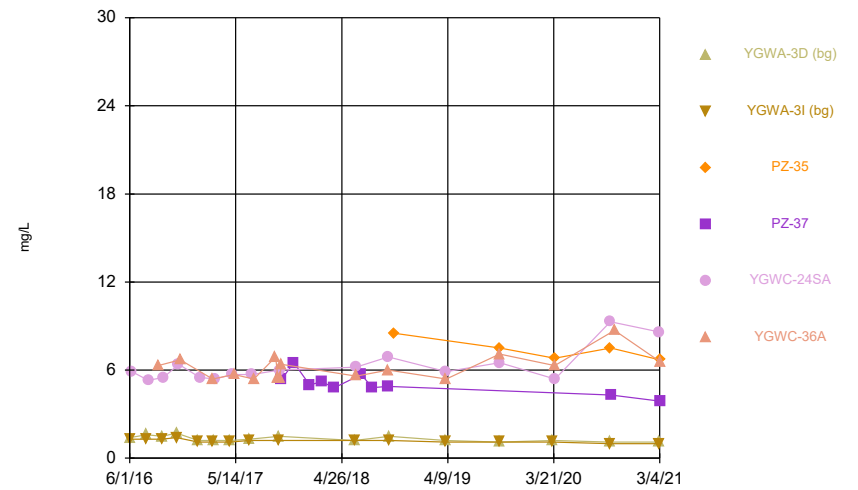
Constituent: Chloride Analysis Run 5/6/2021 8:33 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



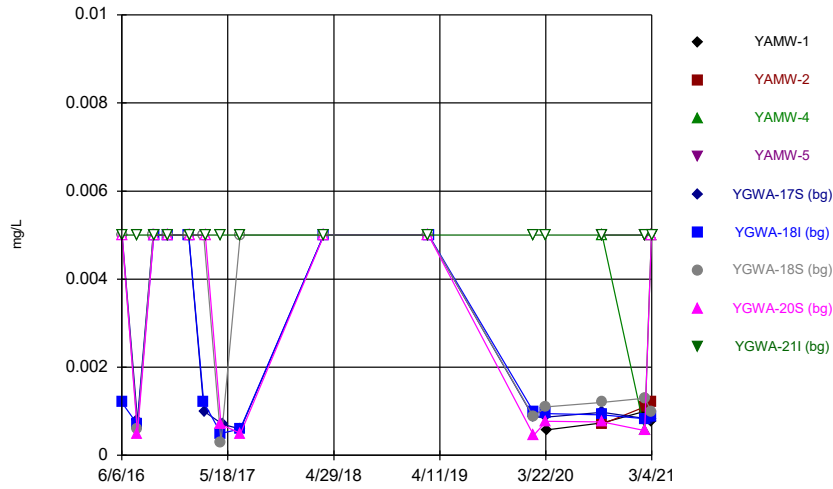
Constituent: Chloride Analysis Run 5/6/2021 8:33 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



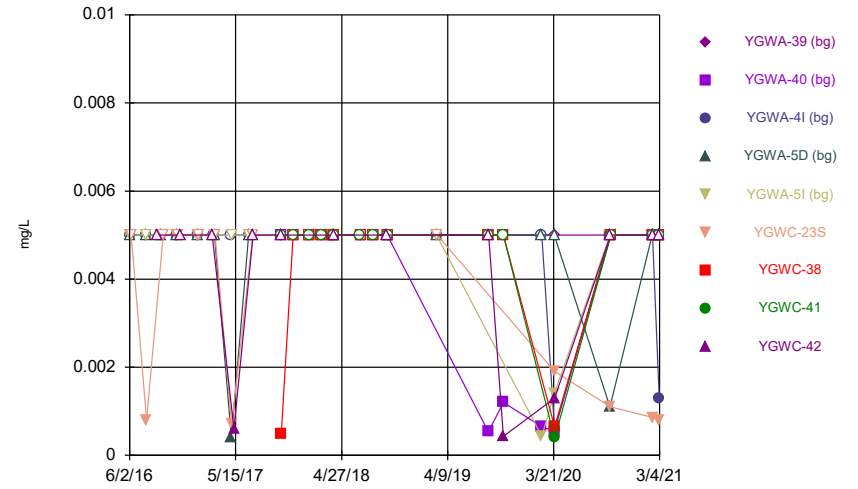
Constituent: Chloride Analysis Run 5/6/2021 8:34 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



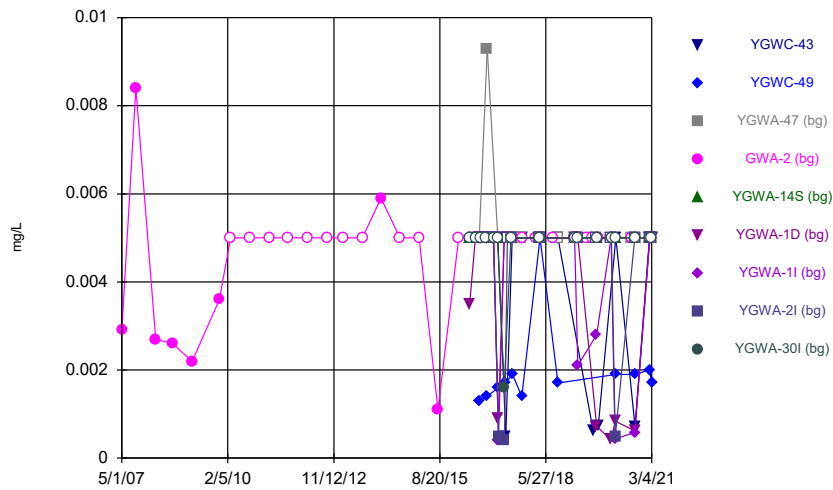
Constituent: Chromium Analysis Run 5/6/2021 8:34 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



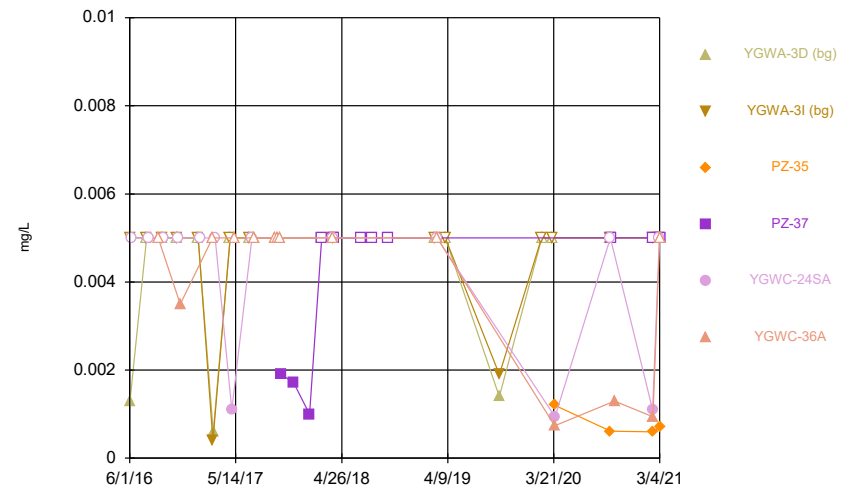
Constituent: Chromium Analysis Run 5/6/2021 8:34 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



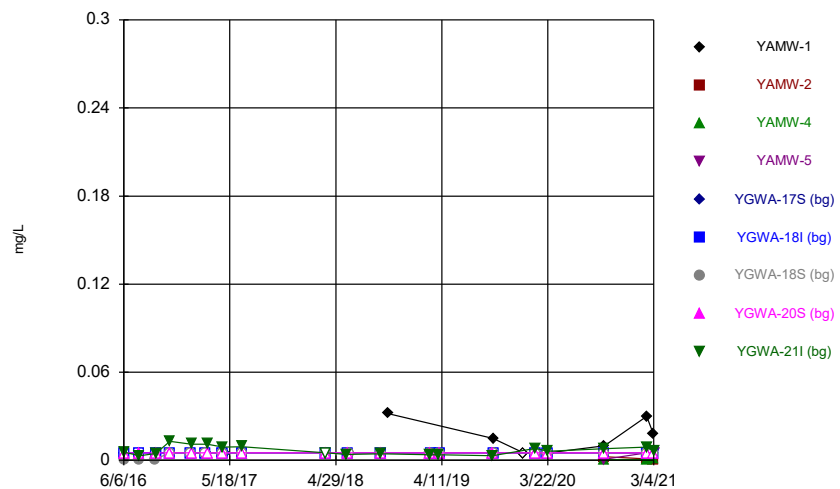
Constituent: Chromium Analysis Run 5/6/2021 8:34 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



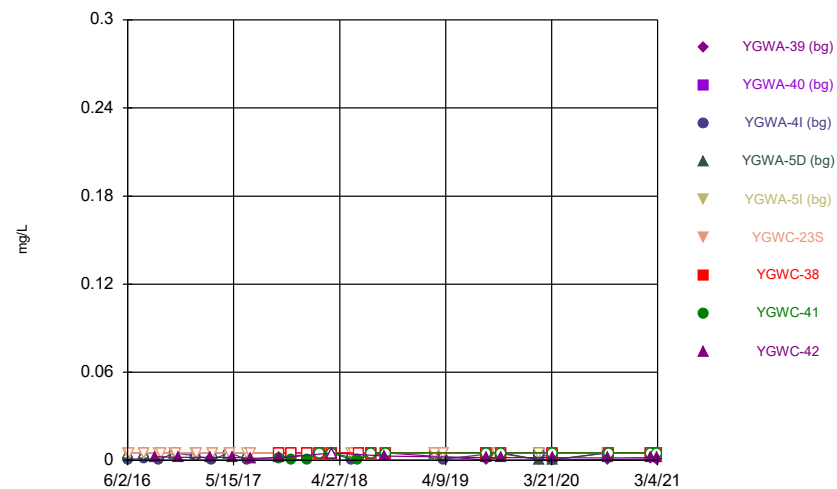
Constituent: Chromium Analysis Run 5/6/2021 8:34 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



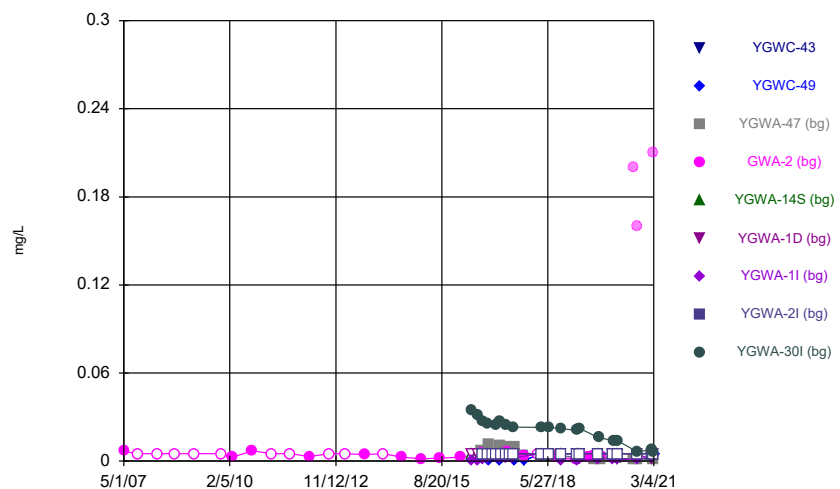
Constituent: Cobalt Analysis Run 5/6/2021 8:34 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



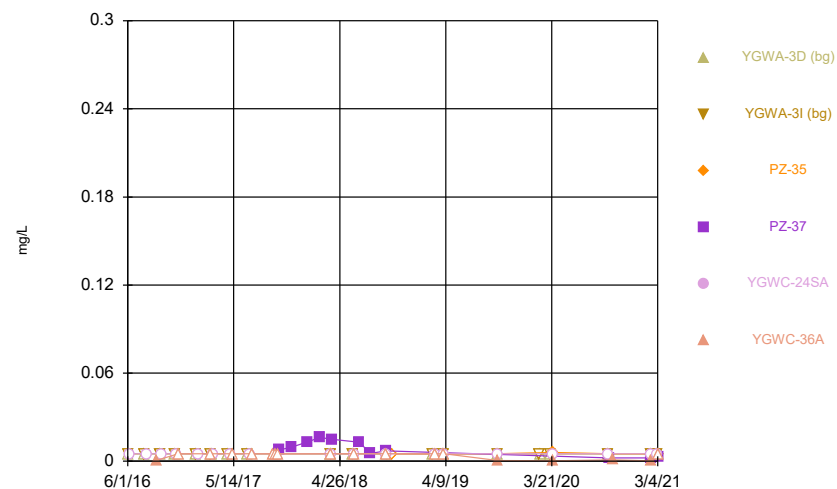
Constituent: Cobalt Analysis Run 5/6/2021 8:34 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



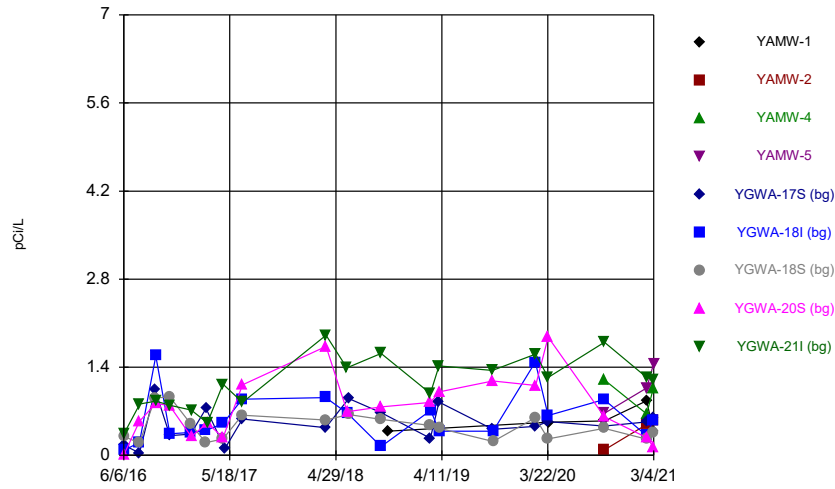
Constituent: Cobalt Analysis Run 5/6/2021 8:34 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



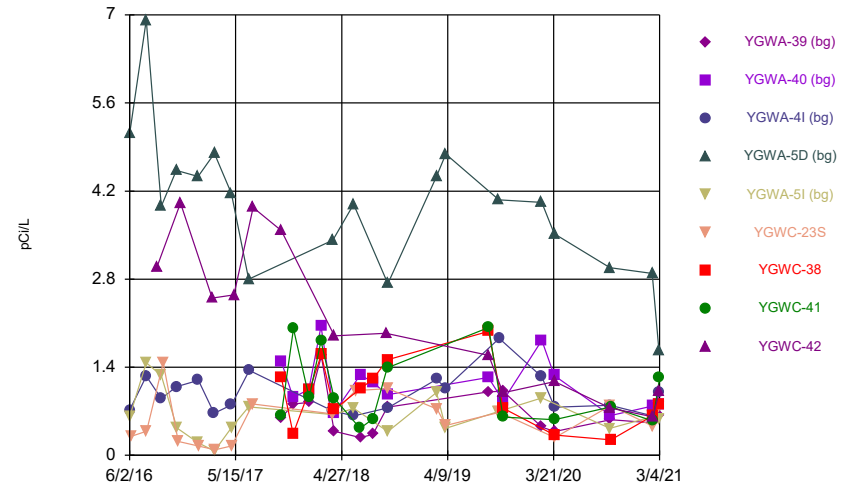
Constituent: Cobalt Analysis Run 5/6/2021 8:34 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



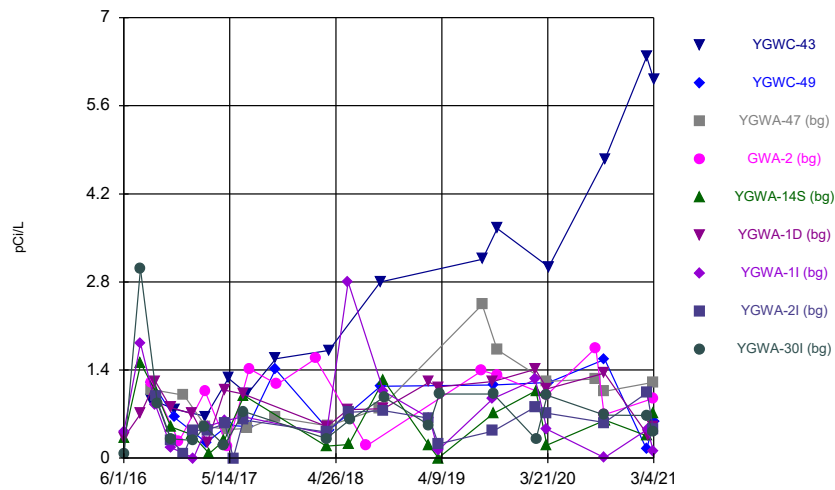
Constituent: Combined Radium 226 + 228 Analysis Run 5/6/2021 8:34 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



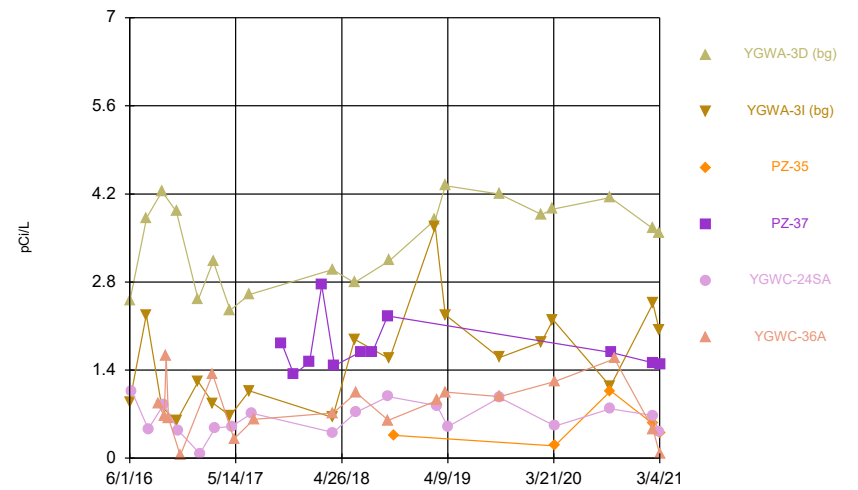
Constituent: Combined Radium 226 + 228 Analysis Run 5/6/2021 8:34 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



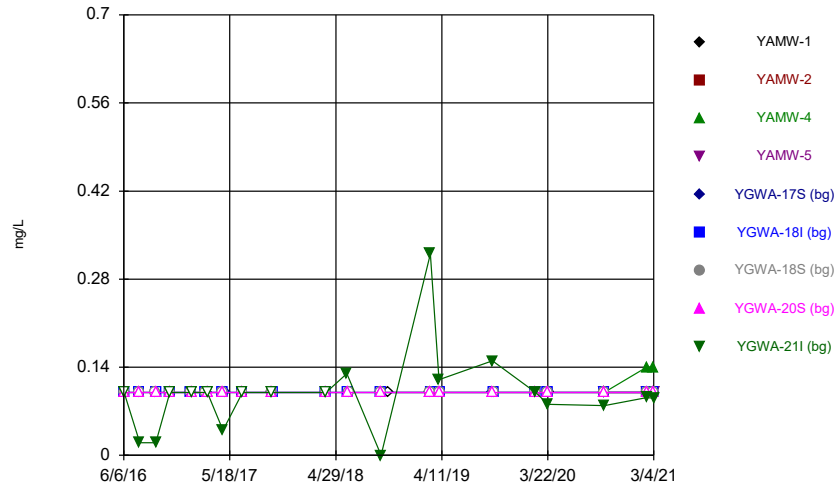
Constituent: Combined Radium 226 + 228 Analysis Run 5/6/2021 8:34 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



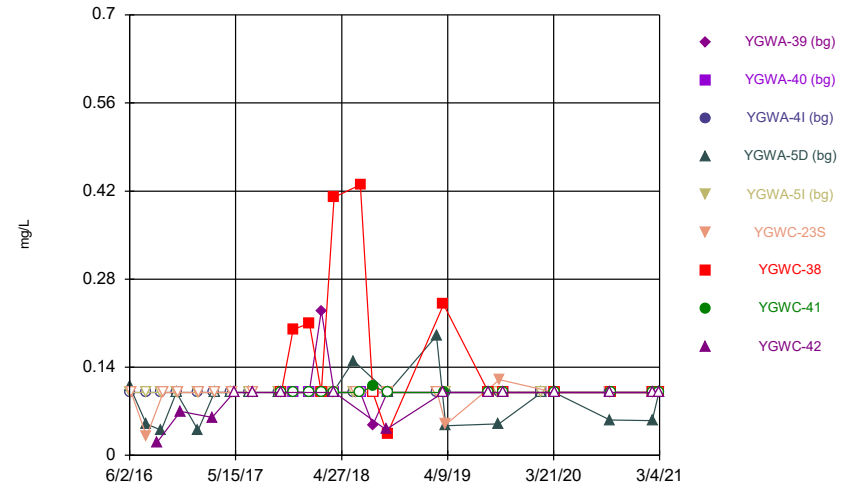
Constituent: Combined Radium 226 + 228 Analysis Run 5/6/2021 8:34 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



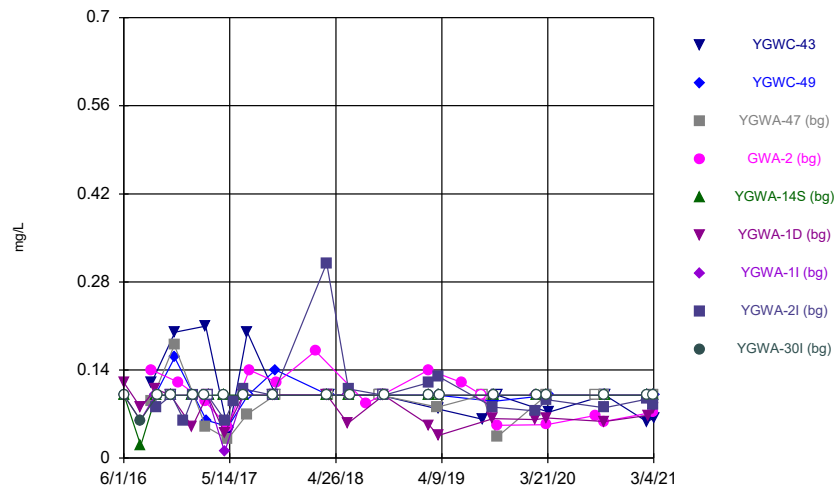
Constituent: Fluoride Analysis Run 5/6/2021 8:34 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



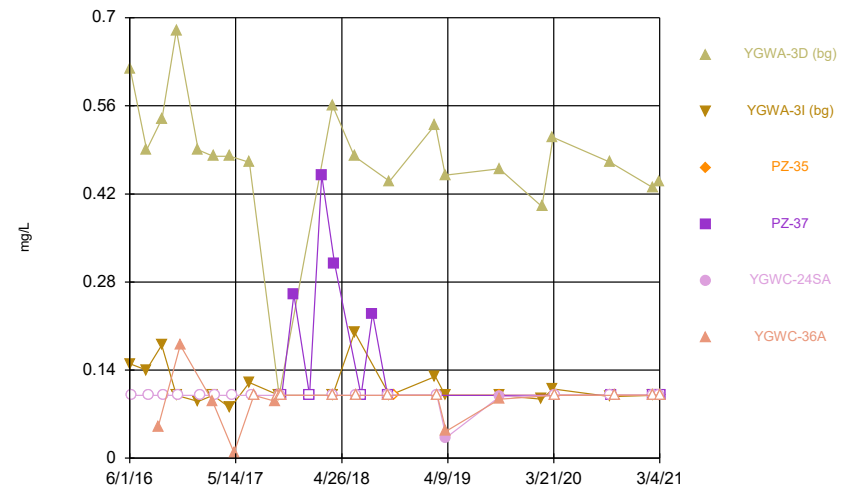
Constituent: Fluoride Analysis Run 5/6/2021 8:34 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



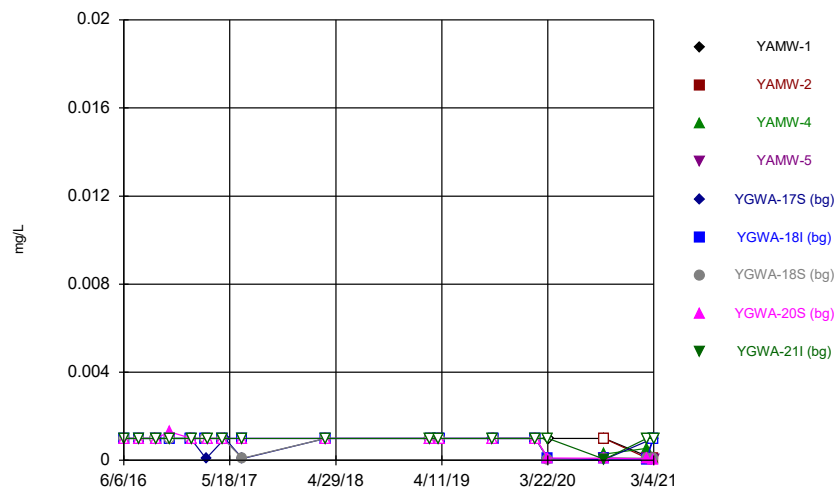
Constituent: Fluoride Analysis Run 5/6/2021 8:34 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



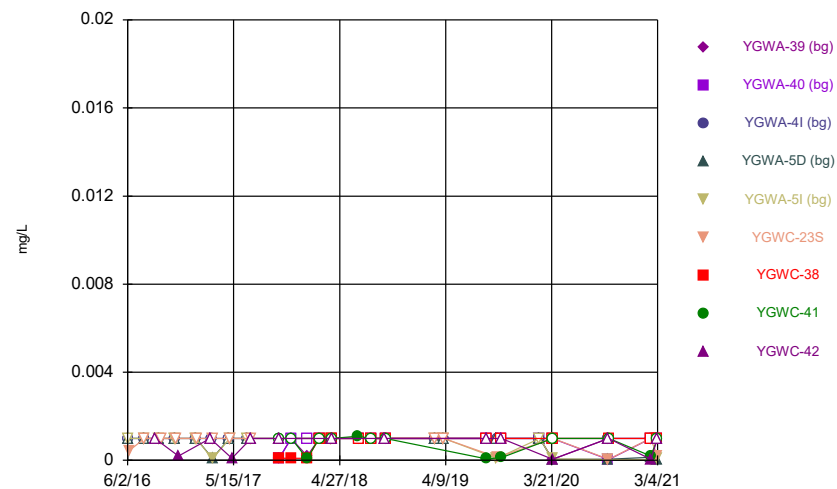
Constituent: Fluoride Analysis Run 5/6/2021 8:34 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



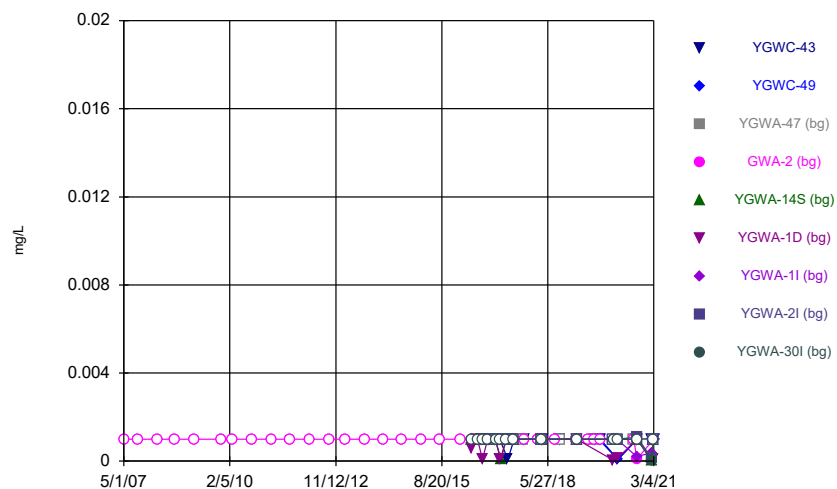
Constituent: Lead Analysis Run 5/6/2021 8:34 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



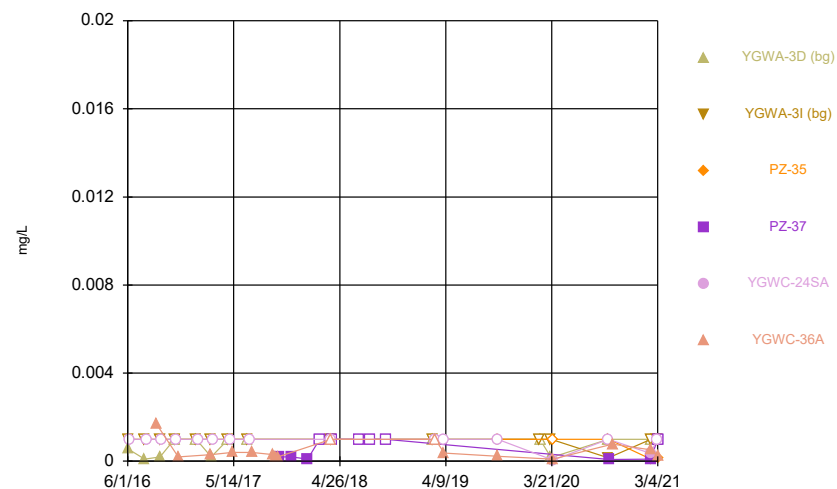
Constituent: Lead Analysis Run 5/6/2021 8:34 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



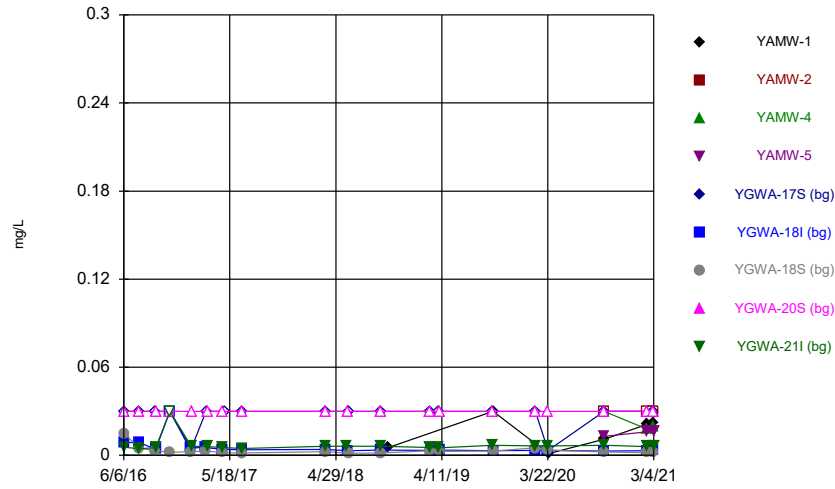
Constituent: Lead Analysis Run 5/6/2021 8:34 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



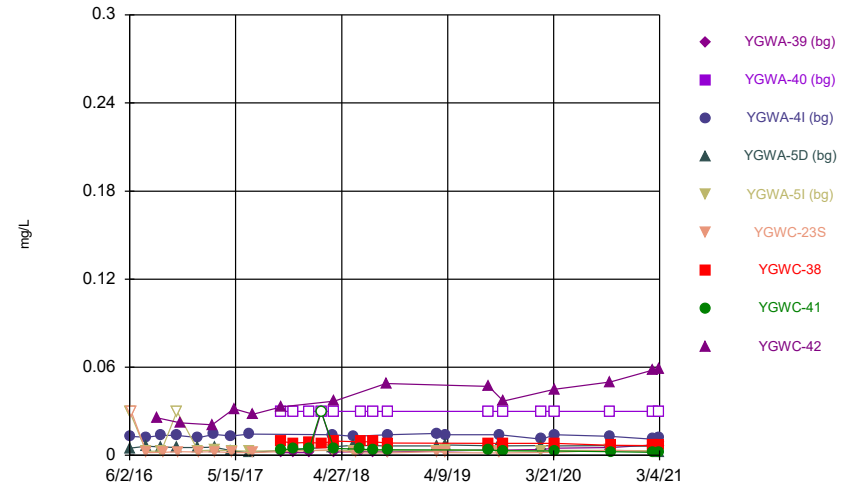
Constituent: Lead Analysis Run 5/6/2021 8:34 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



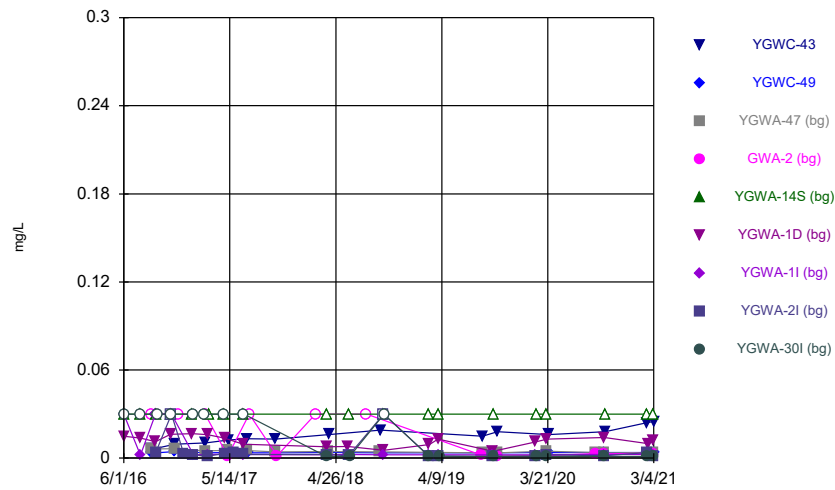
Constituent: Lithium Analysis Run 5/6/2021 8:34 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



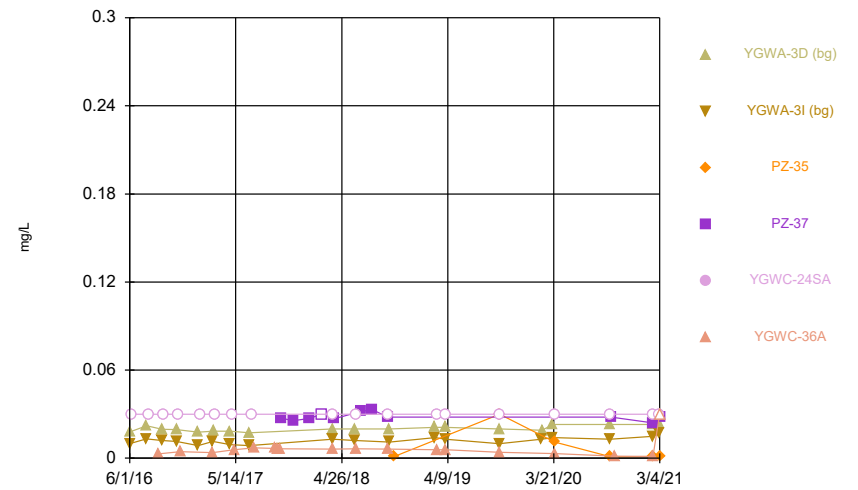
Constituent: Lithium Analysis Run 5/6/2021 8:34 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



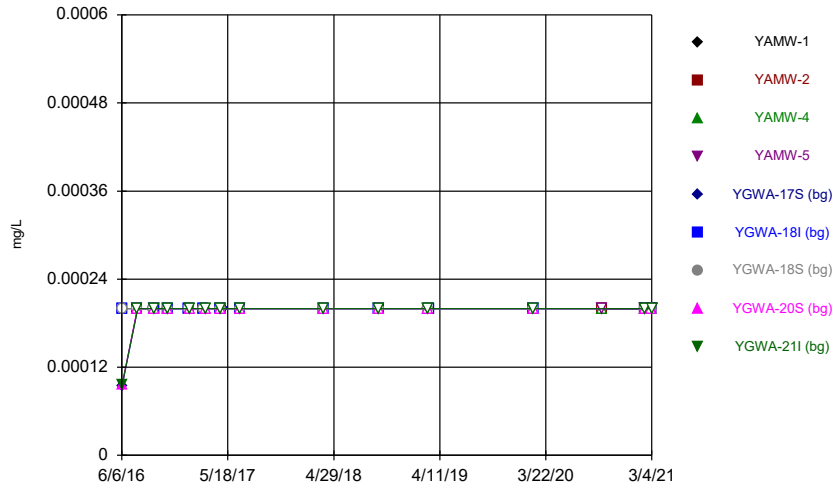
Constituent: Lithium Analysis Run 5/6/2021 8:34 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series

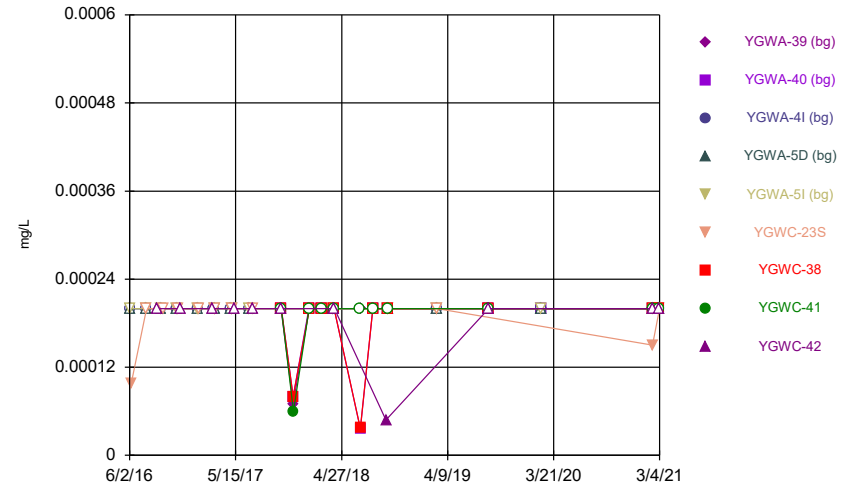


Constituent: Lithium Analysis Run 5/6/2021 8:34 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

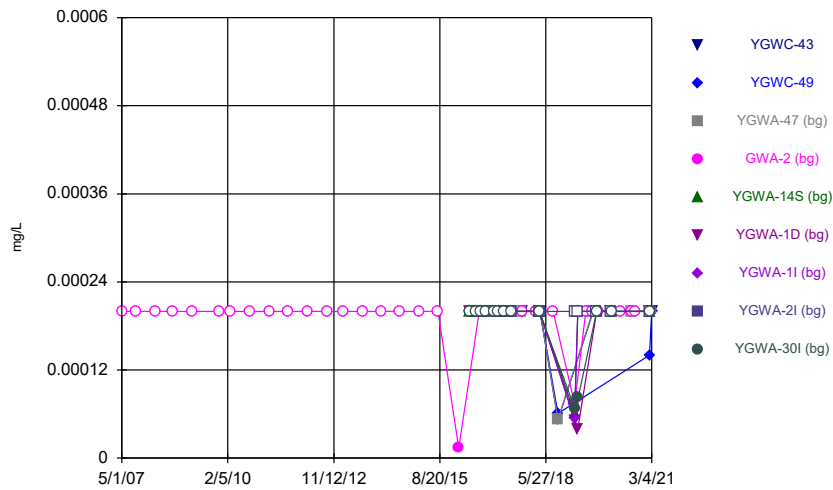
Time Series



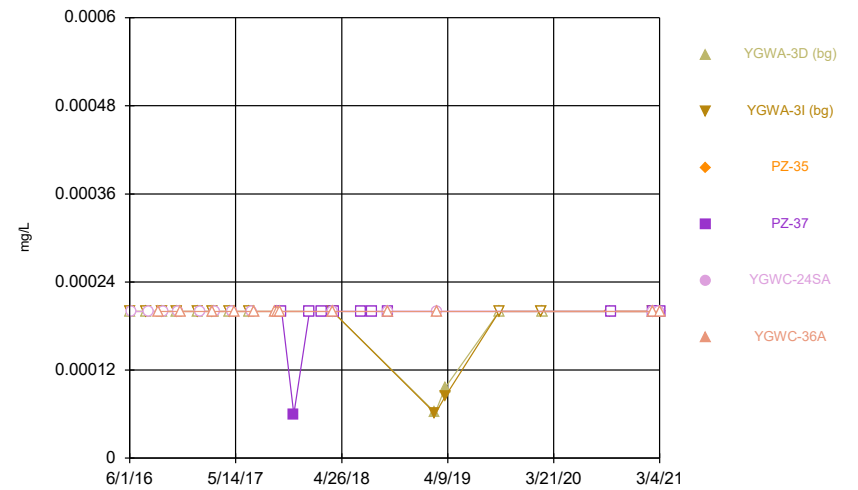
Time Series



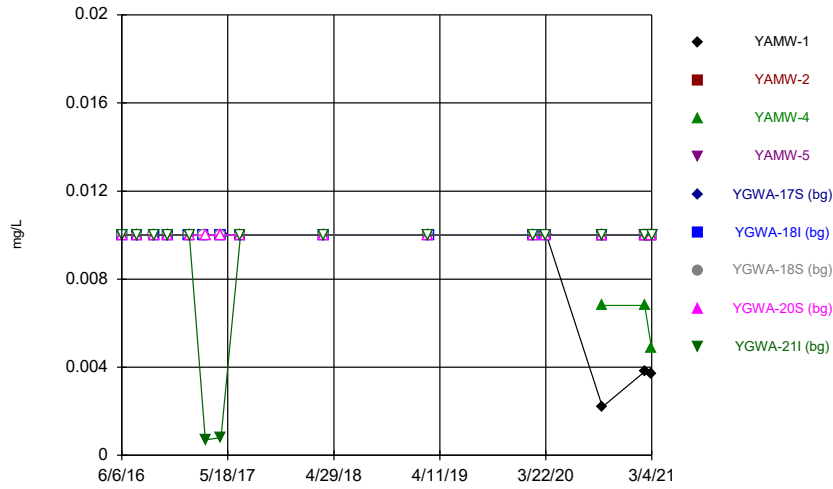
Time Series



Time Series

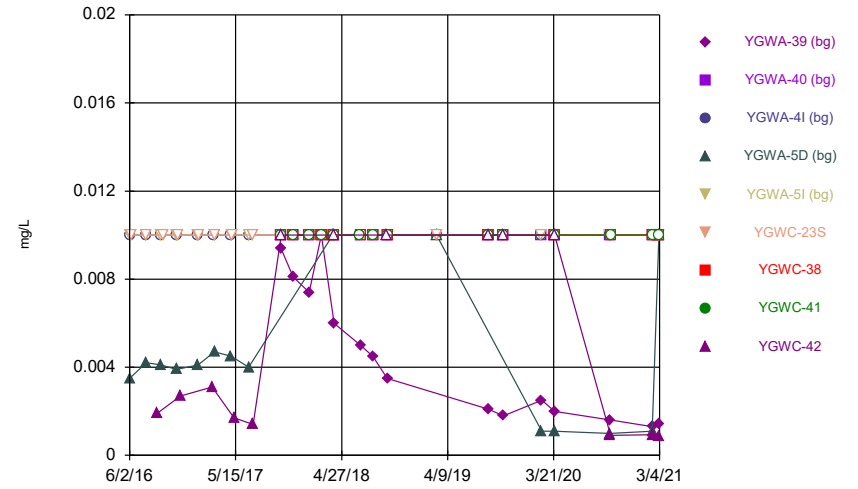


Time Series



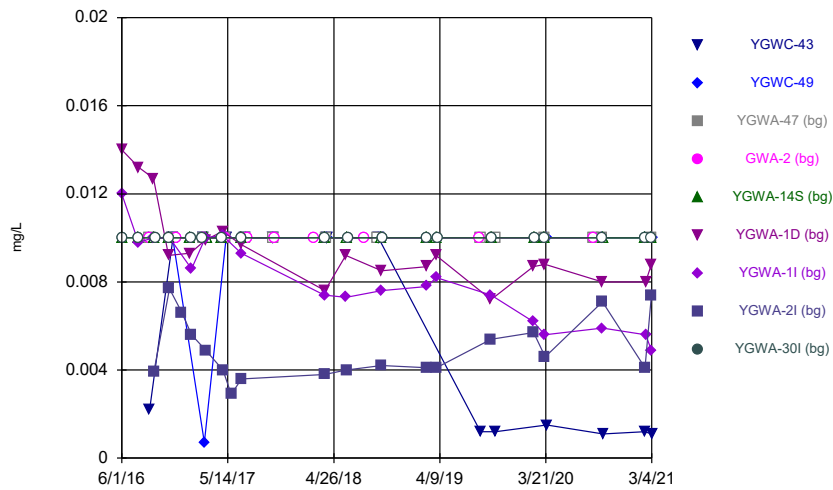
Constituent: Molybdenum Analysis Run 5/6/2021 8:34 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



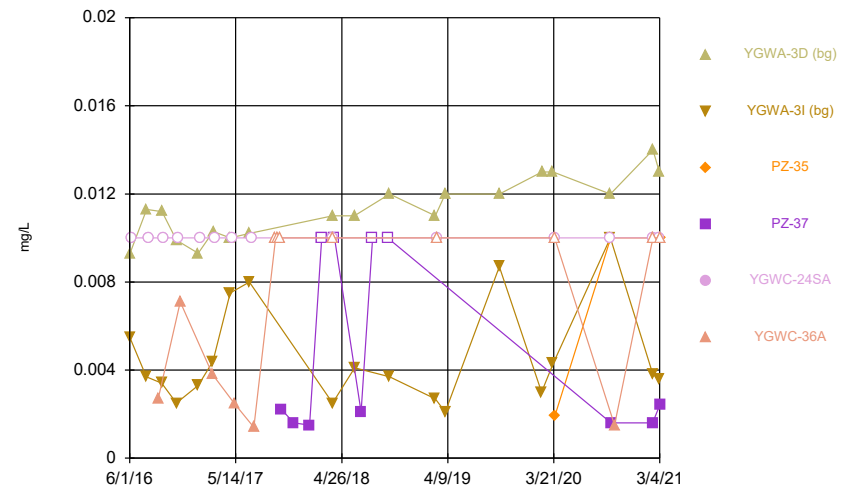
Constituent: Molybdenum Analysis Run 5/6/2021 8:34 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



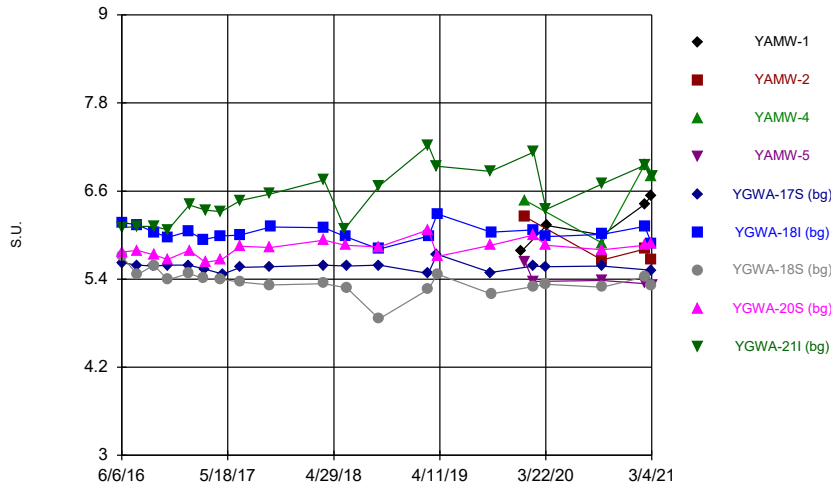
Constituent: Molybdenum Analysis Run 5/6/2021 8:34 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



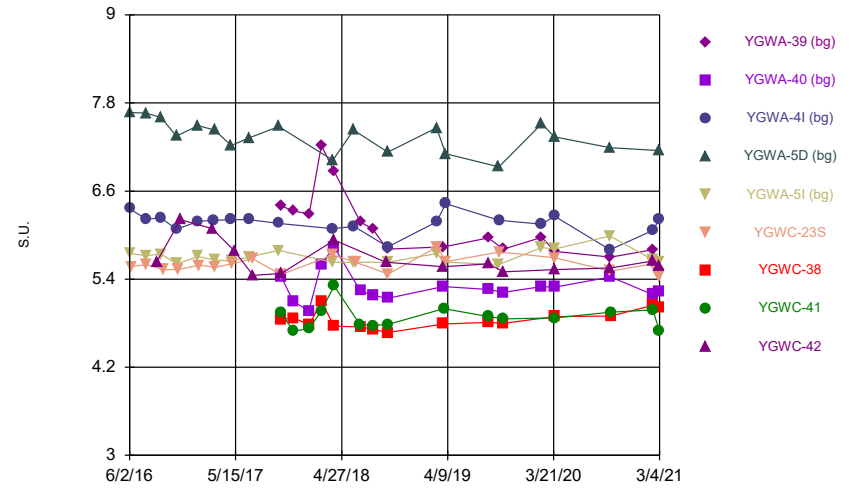
Constituent: Molybdenum Analysis Run 5/6/2021 8:34 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



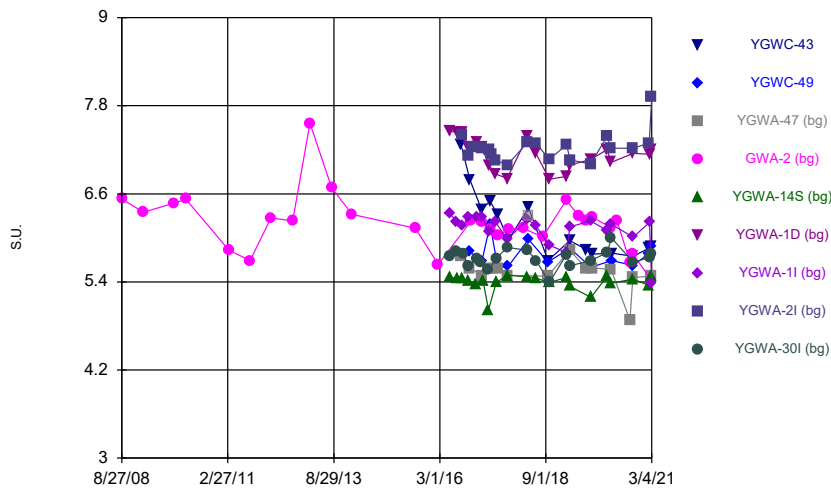
Constituent: pH Analysis Run 5/6/2021 8:34 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



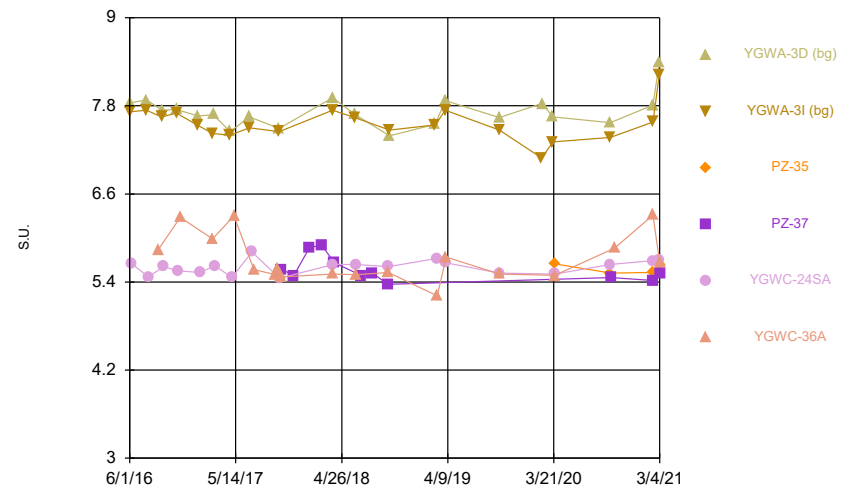
Constituent: pH Analysis Run 5/6/2021 8:34 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



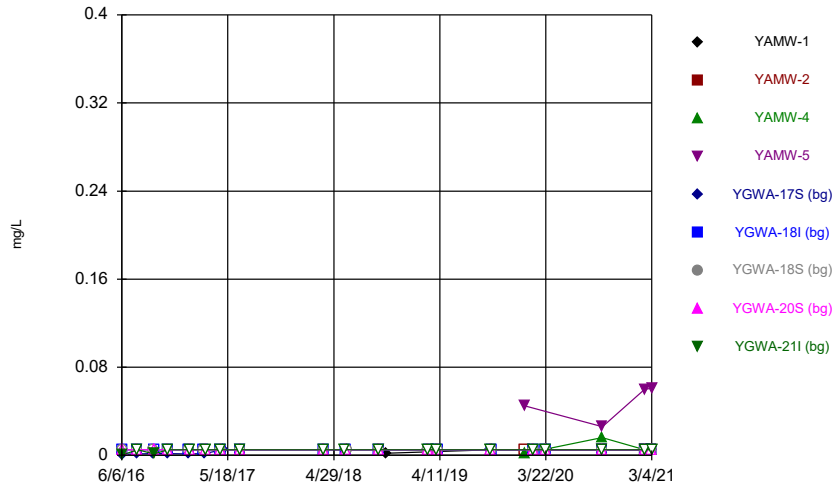
Constituent: pH Analysis Run 5/6/2021 8:34 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



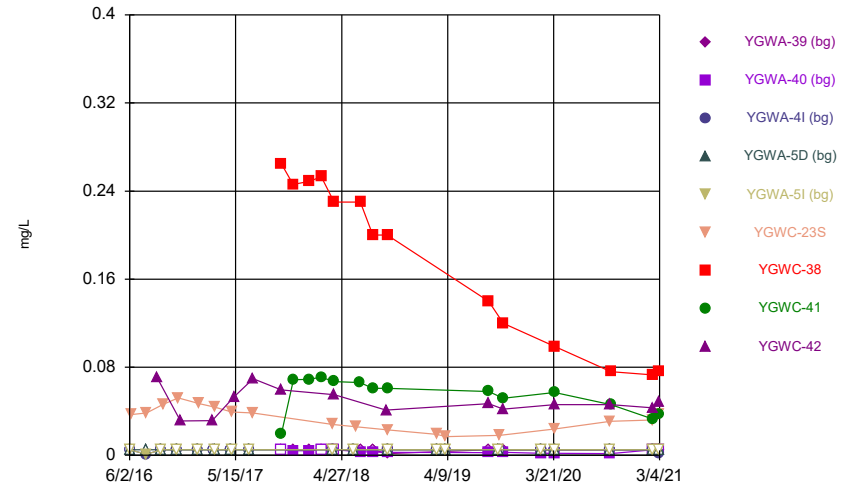
Constituent: pH Analysis Run 5/6/2021 8:34 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



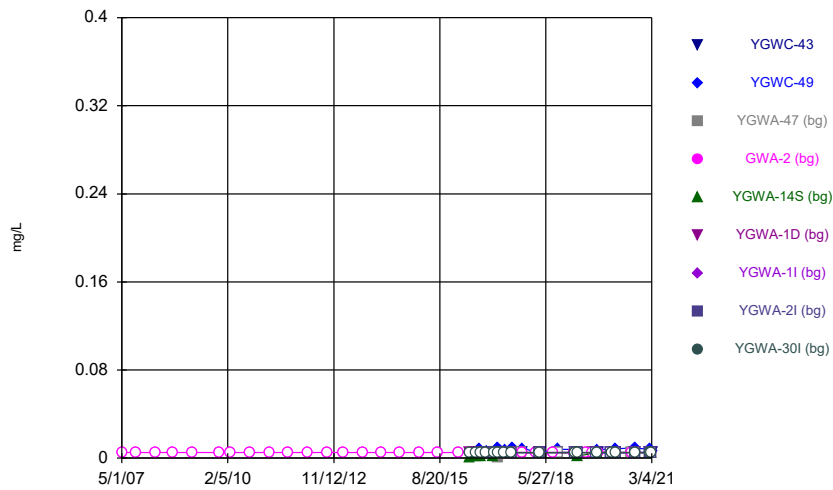
Constituent: Seleniun Analysis Run 5/6/2021 8:34 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



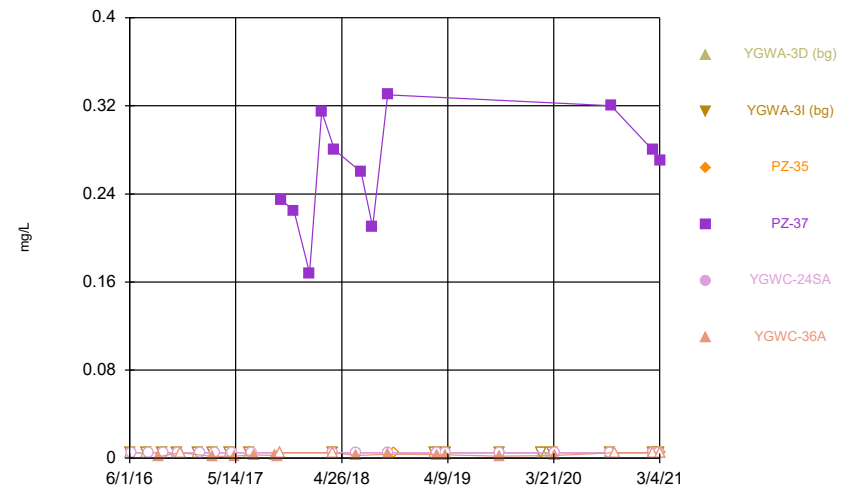
Constituent: Seleniun Analysis Run 5/6/2021 8:34 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



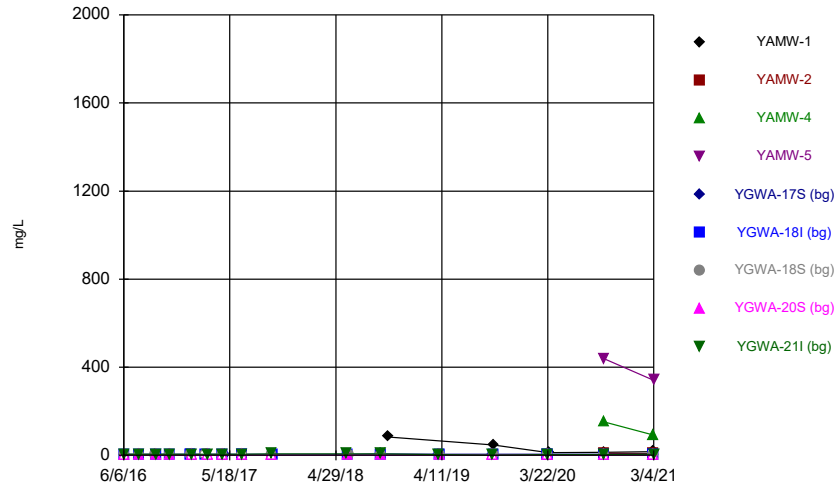
Constituent: Seleniun Analysis Run 5/6/2021 8:34 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



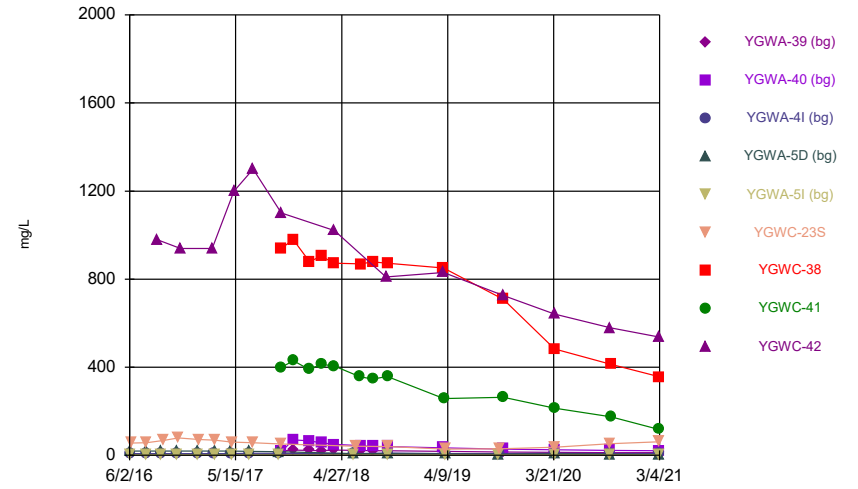
Constituent: Seleniun Analysis Run 5/6/2021 8:34 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



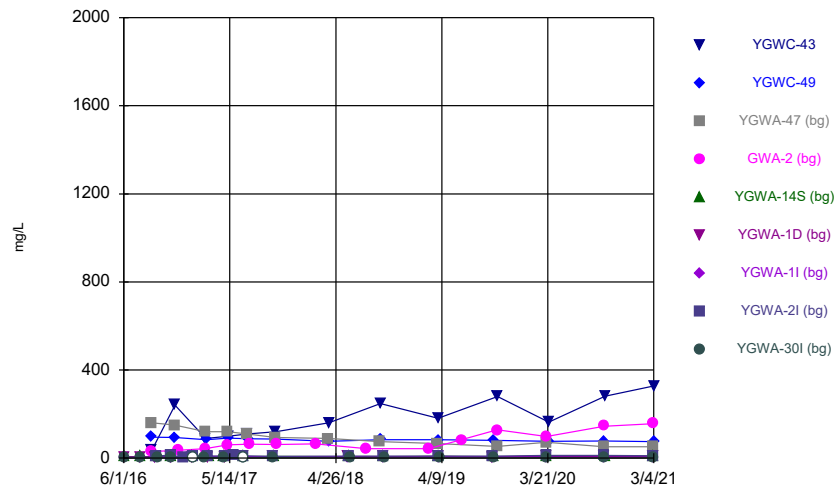
Constituent: Sulfate Analysis Run 5/6/2021 8:34 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



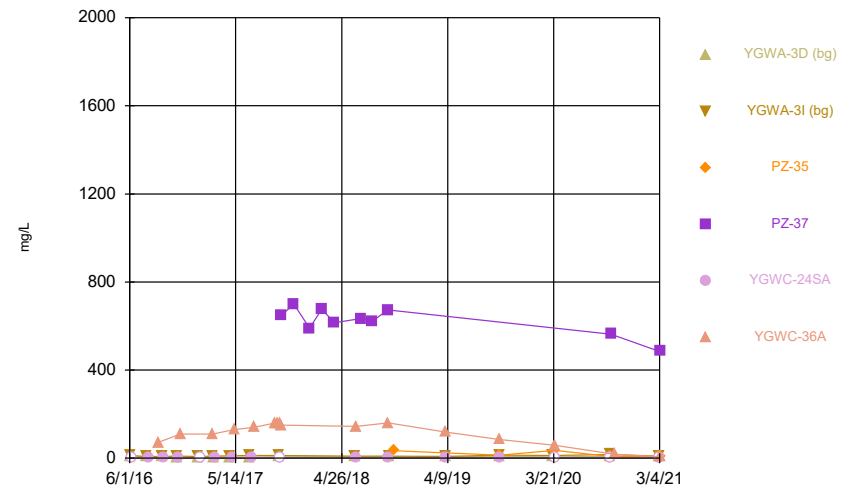
Constituent: Sulfate Analysis Run 5/6/2021 8:34 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



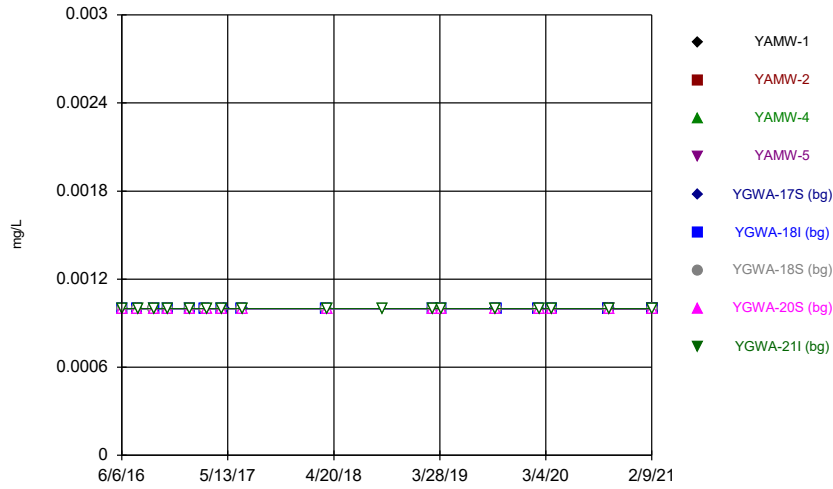
Constituent: Sulfate Analysis Run 5/6/2021 8:34 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



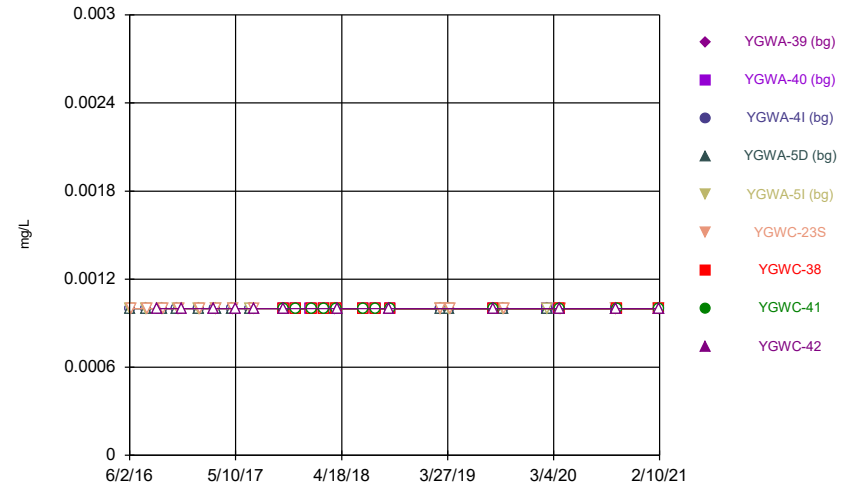
Constituent: Sulfate Analysis Run 5/6/2021 8:34 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



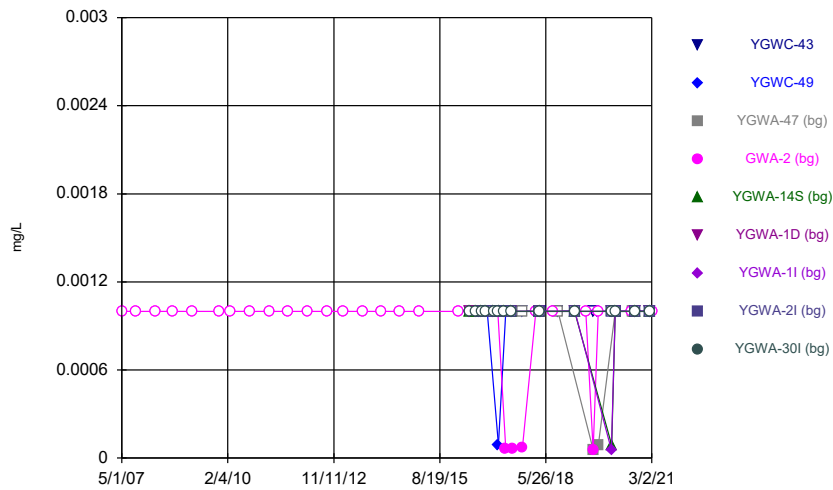
Constituent: Thallium Analysis Run 5/6/2021 8:34 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



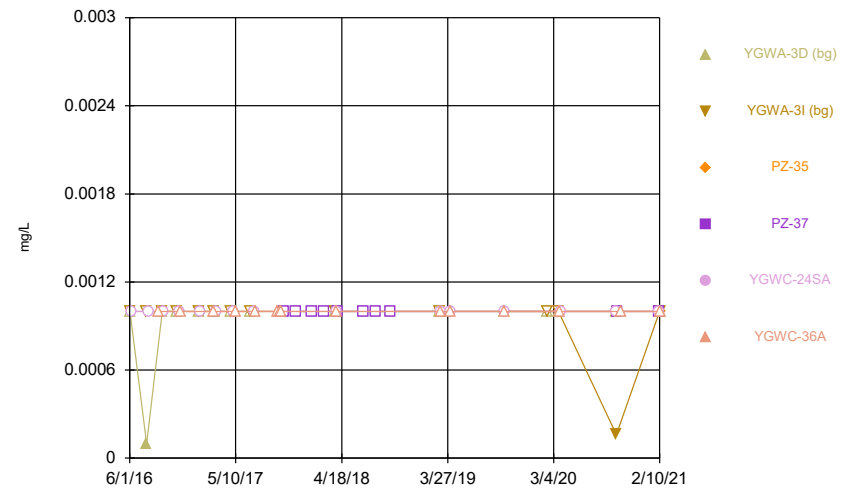
Constituent: Thallium Analysis Run 5/6/2021 8:34 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



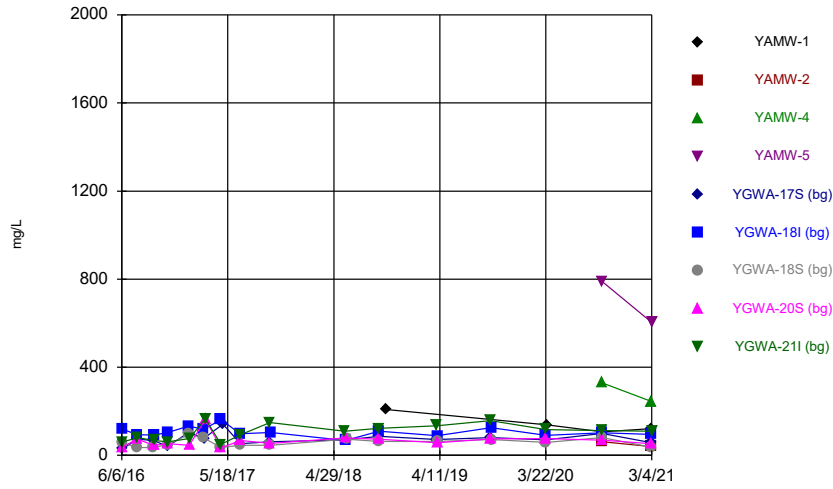
Constituent: Thallium Analysis Run 5/6/2021 8:34 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



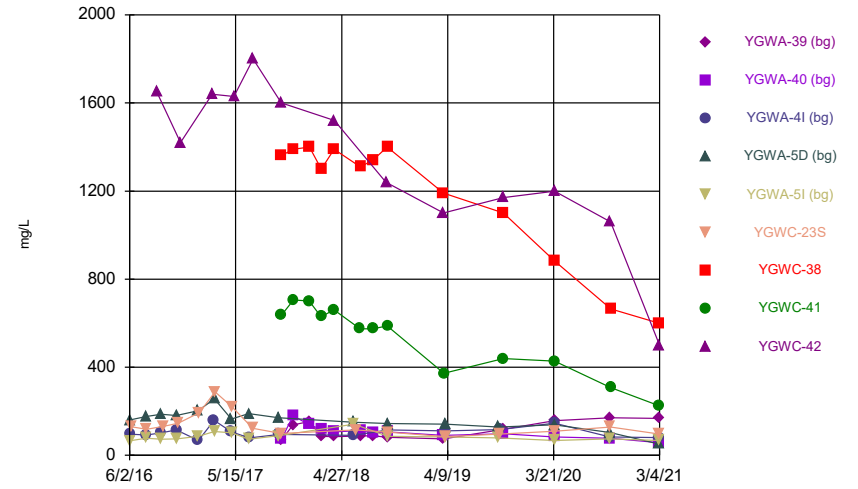
Constituent: Thallium Analysis Run 5/6/2021 8:34 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



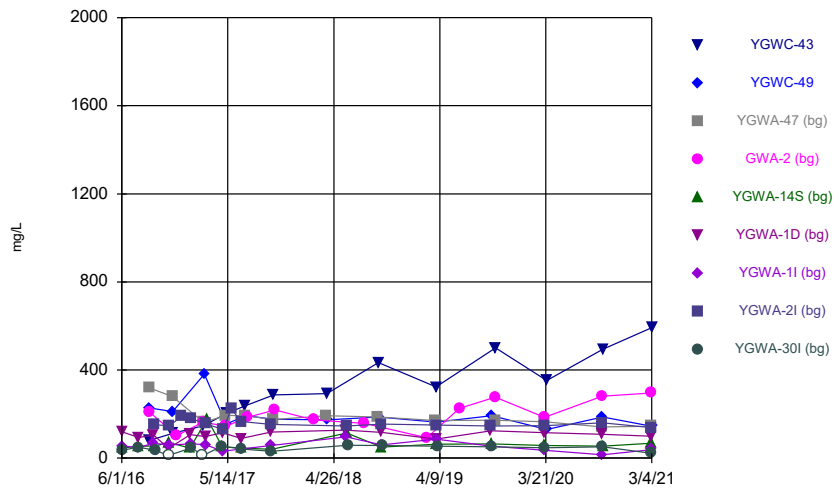
Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:34 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



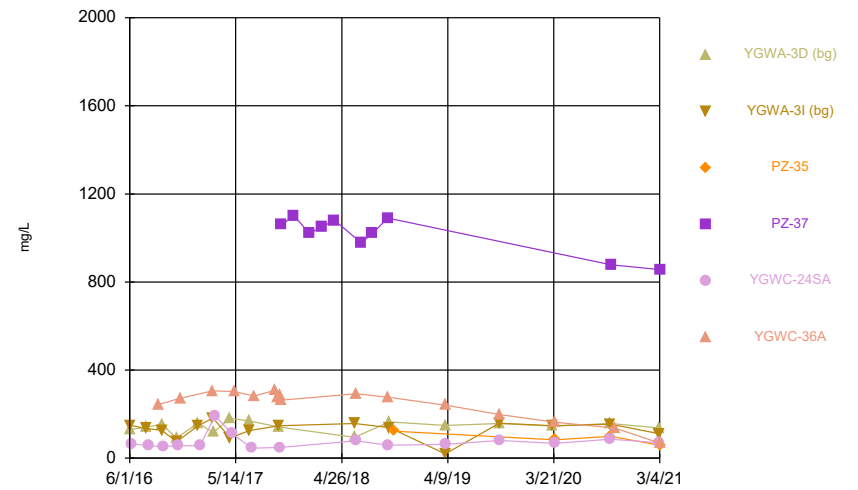
Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:34 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:34 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series



Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:34 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/6/2021 8:36 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)
6/6/2016						<0.003	<0.003		
6/7/2016					<0.003			<0.003	<0.003
7/27/2016					<0.003	0.0005 (J)	<0.003	<0.003	
7/28/2016									<0.003
9/16/2016					<0.003		<0.003		
9/19/2016						<0.003		<0.003	0.001 (J)
11/2/2016								<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								<0.003	<0.003
3/1/2017						<0.003	<0.003		
3/2/2017					<0.003				
3/6/2017								<0.003	0.0005 (J)
4/26/2017						<0.003	<0.003	<0.003	<0.003
5/2/2017					<0.003				
6/28/2017						<0.003	<0.003		
6/29/2017					<0.003			<0.003	<0.003
3/28/2018					<0.003	<0.003	<0.003		
3/29/2018								<0.003	<0.003
3/5/2019					<0.003		<0.003	<0.003	0.0011 (J)
3/6/2019						<0.003			
4/2/2019					<0.003				0.0011 (J)
4/3/2019						<0.003	<0.003	<0.003	
9/24/2019									0.0035
9/25/2019					<0.003			<0.003	
9/26/2019	<0.003					0.00056 (J)	<0.003		
2/11/2020					<0.003	<0.003	<0.003		
2/12/2020								<0.003	0.0015 (J)
3/24/2020					<0.003	<0.003	<0.003	<0.003	0.0017 (J)
3/25/2020	<0.003								
9/23/2020		<0.003	0.00065 (J)		<0.003	<0.003	<0.003		
9/24/2020	<0.003			0.00033 (J)				<0.003	0.0047
2/9/2021	0.00037 (J)	<0.003	0.0011 (J)	<0.003		<0.003	<0.003	0.00032 (J)	0.0013 (J)
3/3/2021	0.025	<0.003	0.00062 (J)		<0.003	<0.003	0.00067 (J)	<0.003	
3/4/2021				<0.003					0.0014 (J)

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/6/2021 8:36 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.003	<0.003	<0.003				
6/7/2016						<0.003			
7/26/2016			0.0003 (J)	<0.003	<0.003				
7/28/2016						<0.003			
8/30/2016									<0.003
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			
2/27/2017									<0.003
3/6/2017			<0.003						
3/7/2017				<0.003	<0.003				
3/9/2017						<0.003			
5/1/2017			<0.003	<0.003					
5/2/2017					<0.003	<0.003			
5/10/2017									<0.003
6/27/2017				<0.003	<0.003				
6/29/2017			<0.003						
7/10/2017						<0.003			
7/11/2017									<0.003
10/11/2017	0.0006 (J)								
10/12/2017		<0.003					<0.003	<0.003	<0.003
11/20/2017	<0.003	<0.003					<0.003		
11/21/2017								<0.003	
1/10/2018		<0.003							
1/11/2018	<0.003							<0.003	
1/12/2018							<0.003		
2/19/2018		<0.003						<0.003	
2/20/2018	<0.003						<0.003		
3/29/2018			<0.003	<0.003	<0.003				
3/30/2018						<0.003			
4/3/2018	<0.003	<0.003					<0.003	<0.003	
4/4/2018									<0.003
6/27/2018								<0.003	
6/28/2018	<0.003	<0.003					<0.003		
8/7/2018	<0.003	<0.003					0.0015 (J)	<0.003	
9/20/2018									<0.003
9/24/2018	<0.003	<0.003					<0.003	<0.003	
3/4/2019			<0.003	<0.003	<0.003				
3/6/2019						<0.003			
4/3/2019			<0.003	<0.003	<0.003				
4/4/2019						<0.003			
8/21/2019	<0.003	<0.003							
8/22/2019							<0.003	<0.003	<0.003
9/24/2019				<0.003	<0.003				
9/25/2019			<0.003						
9/27/2019						0.00029 (J)			

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/6/2021 8:36 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
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

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-11 (bg)	YGWA-21 (bg)	YGWA-30I (bg)
5/1/2007				<0.003					
9/11/2007				<0.003					
3/20/2008				<0.003					
8/27/2008				<0.003					
3/3/2009				<0.003					
11/18/2009				<0.003					
3/3/2010				<0.003					
9/8/2010				<0.003					
3/10/2011				<0.003					
9/8/2011				<0.003					
3/5/2012				<0.003					
9/10/2012				<0.003					
2/6/2013				<0.003					
8/12/2013				<0.003					
2/5/2014				<0.003					
8/5/2014				<0.003					
2/4/2015				<0.003					
8/3/2015				<0.003					
2/16/2016				<0.003					
6/1/2016						<0.003	<0.003		
6/2/2016					<0.003				<0.003
7/25/2016							<0.003		<0.003
7/26/2016					0.0005 (J)	0.001 (J)			
8/30/2016			0.0028 (J)						
8/31/2016	<0.003			<0.003					
9/1/2016		<0.003							
9/13/2016						0.001 (J)	<0.003		
9/14/2016								<0.003	
9/15/2016					<0.003				
9/19/2016									<0.003
11/1/2016						0.0015 (J)			<0.003
11/2/2016					<0.003				
11/4/2016							<0.003	<0.003	
11/14/2016			<0.003						
11/15/2016		<0.003							
11/16/2016	<0.003								
11/28/2016				0.0014 (J)					
12/15/2016								0.0012 (J)	
1/10/2017					<0.003				
1/11/2017						<0.003			
1/16/2017							<0.003	<0.003	<0.003
2/21/2017									<0.003
2/22/2017				<0.003					
2/24/2017	<0.003		<0.003						
2/27/2017		0.0011 (J)							
3/2/2017						0.0004 (J)	<0.003		
3/3/2017								<0.003	
3/8/2017					<0.003				
4/26/2017					<0.003				<0.003
4/27/2017						0.0004 (J)	0.0017 (J)		
4/28/2017								0.0015 (J)	
5/8/2017			0.0004 (J)	<0.003					

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-11 (bg)	YGWA-21 (bg)	YGWA-30I (bg)
5/9/2017		<0.003							
5/10/2017	<0.003								
5/26/2017								0.0005 (J)	
6/27/2017						<0.003	<0.003		
6/28/2017								<0.003	
6/30/2017					<0.003				<0.003
7/11/2017	<0.003		0.0006 (J)						
7/13/2017		<0.003							
7/17/2017				<0.003					
10/10/2017			<0.003						
10/11/2017		<0.003							
10/12/2017	<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	
3/29/2018						<0.003			
4/2/2018			<0.003						
4/4/2018	<0.003	<0.003							
8/6/2018				<0.003					
9/19/2018			<0.003						
9/20/2018	<0.003	<0.003							
2/25/2019				<0.003					
2/26/2019					<0.003				<0.003
2/27/2019						<0.003	<0.003	<0.003	
6/12/2019				<0.003					
8/19/2019				<0.003					
8/20/2019			<0.003						
8/21/2019	<0.003								
9/26/2019		<0.003							
10/8/2019				<0.003					
2/10/2020						0.00088 (J)	<0.003		
2/11/2020								0.00036 (J)	
2/12/2020					<0.003				<0.003
3/17/2020				<0.003					
3/18/2020					<0.003		0.0004 (J)		
3/19/2020						<0.003		0.0003 (J)	<0.003
3/25/2020	0.00031 (J)	0.00053 (J)							
8/26/2020				0.00042 (J)					
8/27/2020			0.00048 (J)						
9/22/2020			<0.003	0.00044 (J)					
9/23/2020						<0.003	<0.003	<0.003	
9/24/2020		<0.003							<0.003
9/25/2020	<0.003				<0.003				
2/9/2021	<0.003	<0.003							
2/10/2021					<0.003			0.0013 (J)	
2/11/2021									<0.003
2/12/2021						<0.003	<0.003		
3/1/2021			0.00048 (J)						<0.003
3/2/2021				<0.003	<0.003				
3/3/2021						<0.003	<0.003	<0.003	
3/4/2021	<0.003	<0.003							

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
6/1/2016		<0.003				
6/2/2016	<0.003					
6/8/2016					<0.003	
7/25/2016		<0.003				
7/26/2016	0.002 (J)					
8/1/2016					<0.003	
9/2/2016						<0.003
9/14/2016		<0.003				
9/15/2016	0.0027 (J)					
9/20/2016					0.0009 (J)	
11/1/2016	<0.003	<0.003				
11/8/2016					<0.003	
11/14/2016						0.0014 (J)
1/11/2017	<0.003	<0.003				
1/17/2017					<0.003	
2/28/2017						0.0004 (J)
3/1/2017		<0.003				
3/2/2017	0.0008 (J)					
3/8/2017					<0.003	
4/26/2017	<0.003	<0.003				
5/2/2017					<0.003	
5/9/2017						<0.003
6/28/2017	<0.003	<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		
3/28/2018	<0.003	<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		
2/27/2019	<0.003	<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
2/11/2020		<0.003				
2/12/2020	<0.003					
3/19/2020	0.00064 (J)	<0.003				
3/25/2020			<0.003			0.0011 (J)
3/26/2020					<0.003	
9/23/2020	<0.003	<0.003			<0.003	
9/24/2020			<0.003			
9/25/2020				0.0014 (J)		
10/7/2020						<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/6/2021 8:36 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
2/9/2021				0.00035 (J)	<0.003	
2/10/2021	<0.003	<0.003	<0.003			0.028
3/3/2021	<0.003	<0.003			<0.003	
3/4/2021			0.00039 (J)	<0.003		0.0015 (J)

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)
6/6/2016						<0.005	<0.005		
6/7/2016					<0.005			<0.005	<0.005
7/27/2016					<0.005	<0.005	<0.005	<0.005	
7/28/2016									<0.005
9/16/2016					<0.005		<0.005		
9/19/2016						<0.005		<0.005	<0.005
11/2/2016								<0.005	
11/3/2016					<0.005	<0.005	<0.005		<0.005
1/11/2017					<0.005	<0.005	<0.005		
1/13/2017								<0.005	<0.005
3/1/2017						<0.005	<0.005		
3/2/2017					<0.005				
3/6/2017								<0.005	0.0017 (J)
4/26/2017						<0.005	<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	<0.005
3/28/2018					<0.005	<0.005	0.00061 (J)		
3/29/2018								<0.005	0.0015 (J)
6/5/2018									0.0013 (J)
6/6/2018								<0.005	
6/7/2018						0.00066 (J)			
6/11/2018					<0.005		<0.005		
9/25/2018					<0.005	<0.005	<0.005	<0.005	0.0022 (J)
10/16/2018	<0.005								
3/5/2019					<0.005		<0.005	<0.005	0.0013 (J)
3/6/2019						<0.005			
4/2/2019					<0.005				0.00096 (J)
4/3/2019						<0.005	<0.005	<0.005	
9/24/2019									0.0026 (J)
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	0.0025 (J)
3/24/2020					<0.005	<0.005	<0.005	<0.005	0.0013 (J)
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	0.0014 (J)
2/9/2021	<0.005	<0.005	0.001 (J)	0.00095 (J)		<0.005	<0.005	<0.005	0.001 (J)
3/3/2021	<0.005	<0.005	0.00079 (J)		<0.005	<0.005	<0.005	<0.005	
3/4/2021				<0.005					0.00078 (J)

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (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)
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			
2/27/2017									0.002 (J)
3/6/2017			<0.005						
3/7/2017				0.0012 (J)	<0.005				
3/9/2017						<0.005			
5/1/2017			<0.005	<0.005					
5/2/2017					<0.005	<0.005			
5/10/2017									0.0022 (J)
6/27/2017				0.0019 (J)	<0.005				
6/29/2017			<0.005						
7/10/2017						<0.005			
7/11/2017									0.003 (J)
10/11/2017	0.0009 (J)								
10/12/2017		<0.005					0.0023 (J)	0.0011 (J)	0.0031 (J)
11/20/2017	<0.005	<0.005					0.0008 (J)		
11/21/2017								<0.005	
1/10/2018		<0.005							
1/11/2018	<0.005							<0.005	
1/12/2018							0.001 (J)		
2/19/2018		<0.005						<0.005	
2/20/2018	<0.005						0.00096 (J)		
3/29/2018			<0.005	0.0006 (J)	<0.005				
3/30/2018						<0.005			
4/3/2018	<0.005	<0.005					0.0015 (J)	0.00072 (J)	
4/4/2018									0.0023 (J)
6/6/2018				0.0013 (J)					
6/7/2018			0.00059 (J)		<0.005				
6/12/2018						<0.005			
6/27/2018								0.00062 (J)	
6/28/2018	<0.005	<0.005					0.0017 (J)		
8/7/2018	<0.005	<0.005					0.00072 (J)	<0.005	
9/20/2018									0.0018 (J)
9/24/2018	<0.005	<0.005					0.0017 (J)	0.001 (J)	
9/26/2018			<0.005	0.0014 (J)	<0.005				
9/27/2018						<0.005			
3/4/2019			<0.005	<0.005	<0.005				
3/6/2019						<0.005			
4/3/2019			<0.005	<0.005	<0.005				
4/4/2019						<0.005			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
8/21/2019	0.00058 (J)	<0.005							
8/22/2019							0.00055 (J)	0.00036 (J)	0.00089 (J)
9/24/2019				0.00043 (J)	<0.005				
9/25/2019			<0.005						
9/27/2019						<0.005			
10/9/2019	0.00063 (J)	<0.005					0.00057 (J)	0.00052 (J)	0.00078 (J)
2/12/2020	0.00058 (J)	0.0034 (J)	<0.005	0.0046 (J)	0.002 (J)				
3/24/2020		<0.005		0.00065 (J)	<0.005				
3/25/2020	0.0012 (J)		<0.005				0.00068 (J)	0.001 (J)	0.0013 (J)
3/26/2020						0.0012 (J)			
9/22/2020			<0.005	0.001 (J)	<0.005				
9/24/2020	<0.005	<0.005				<0.005			<0.005
9/25/2020							<0.005	<0.005	
2/8/2021				<0.005	<0.005				
2/9/2021			<0.005			<0.005	0.00098 (J)		
2/10/2021	<0.005	<0.005						<0.005	0.0016 (J)
3/2/2021				<0.005	<0.005				
3/3/2021			<0.005						
3/4/2021	<0.005	<0.005				<0.005	<0.005	<0.005	<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-11 (bg)	YGWA-2I (bg)	YGWA-30I (bg)
5/1/2007				<0.005					
9/11/2007				<0.005					
3/20/2008				<0.005					
8/27/2008				<0.005					
3/3/2009				<0.005					
11/18/2009				<0.005					
3/3/2010				<0.005					
9/8/2010				<0.005					
3/10/2011				<0.005					
9/8/2011				<0.005					
3/5/2012				<0.005					
9/10/2012				<0.005					
2/6/2013				<0.005					
8/12/2013				<0.005					
2/5/2014				<0.005					
8/5/2014				<0.005					
2/4/2015				<0.005					
8/3/2015				<0.005					
2/16/2016				<0.005					
6/1/2016						0.0021	<0.005		
6/2/2016					<0.005				<0.005
7/25/2016							<0.005		<0.005
7/26/2016					<0.005	0.0016 (J)			
8/30/2016			<0.005						
8/31/2016	<0.005			<0.005					
9/1/2016		<0.005							
9/13/2016						<0.005	<0.005		
9/14/2016								<0.005	
9/15/2016					<0.005				
9/19/2016									<0.005
11/1/2016						<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							
11/16/2016	<0.005								
11/28/2016				<0.005					
12/15/2016								0.0023 (J)	
1/10/2017					<0.005				
1/11/2017						0.0017 (J)			
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		<0.005						
2/27/2017		<0.005							
3/2/2017						0.0014 (J)	<0.005		
3/3/2017								0.0016 (J)	
3/8/2017					<0.005				
4/26/2017					<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					

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-11 (bg)	YGWA-21 (bg)	YGWA-30I (bg)
5/9/2017		<0.005							
5/10/2017	<0.005								
5/26/2017								0.0005 (J)	
6/27/2017						0.0018 (J)	<0.005		
6/28/2017								0.0016 (J)	
6/30/2017					<0.005				<0.005
7/11/2017	<0.005		<0.005						
7/13/2017		<0.005							
7/17/2017				<0.005					
10/10/2017			0.0007 (J)						
10/11/2017		0.0006 (J)							
10/12/2017	<0.005								
10/16/2017				<0.005					
2/19/2018				<0.005					
3/27/2018					<0.005		<0.005		<0.005
3/28/2018								0.0013 (J)	
3/29/2018						0.0017 (J)			
4/2/2018			<0.005						
4/4/2018	<0.005	<0.005							
6/5/2018						0.0013 (J)			
6/6/2018							<0.005		
6/7/2018								0.00082 (J)	
6/8/2018					<0.005				
6/11/2018									<0.005
8/6/2018				<0.005					
9/19/2018			0.00072 (J)						
9/20/2018	0.00099 (J)	0.001 (J)							
10/1/2018					<0.005	0.0016 (J)	<0.005	0.0011 (J)	
10/2/2018									<0.005
2/25/2019				<0.005					
2/26/2019					<0.005				<0.005
2/27/2019						0.0015 (J)	<0.005	0.001 (J)	
3/28/2019						0.00072 (J)	<0.005		
3/29/2019					<0.005			0.00063 (J)	
4/1/2019									<0.005
6/12/2019				0.00038 (J)					
8/19/2019				0.00095 (J)					
8/20/2019			<0.005						
8/21/2019	<0.005								
9/24/2019						0.0014 (J)	<0.005	<0.005	
9/25/2019					<0.005				<0.005
9/26/2019		<0.005							
10/8/2019			<0.005	<0.005					
10/9/2019	0.00051 (J)								
2/10/2020						0.0026 (J)	0.0005 (J)		
2/11/2020								0.0044 (J)	
2/12/2020					<0.005				0.0032 (J)
3/17/2020			<0.005	<0.005					
3/18/2020					<0.005		<0.005		
3/19/2020						0.00095 (J)		0.00066 (J)	<0.005
3/25/2020	0.0007 (J)	0.00086 (J)							
8/26/2020				<0.005					

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/6/2021 8:36 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-11 (bg)	YGWA-2I (bg)	YGWA-30I (bg)
8/27/2020			<0.005						
9/22/2020			<0.005	<0.005					
9/23/2020						0.0011 (J)	<0.005	0.001 (J)	
9/24/2020		<0.005							<0.005
9/25/2020	<0.005				<0.005				
2/9/2021	<0.005	<0.005							
2/10/2021					<0.005			<0.005	
2/11/2021									<0.005
2/12/2021						<0.005	<0.005		
3/1/2021			<0.005						<0.005
3/2/2021				<0.005	<0.005				
3/3/2021						<0.005	<0.005	0.00098 (J)	
3/4/2021	<0.005	<0.005							

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
6/1/2016		<0.005				
6/2/2016	<0.005					
6/8/2016					<0.005	
7/25/2016		<0.005				
7/26/2016	<0.005					
8/1/2016					<0.005	
9/2/2016						<0.005
9/14/2016		<0.005				
9/15/2016	<0.005					
9/20/2016					<0.005	
11/1/2016	<0.005	<0.005				
11/8/2016					<0.005	
11/14/2016						<0.005
1/11/2017	<0.005	<0.005				
1/17/2017					<0.005	
2/28/2017						0.0006 (J)
3/1/2017		0.0004 (J)				
3/2/2017	<0.005					
3/8/2017					<0.005	
4/26/2017	<0.005	<0.005				
5/2/2017					<0.005	
5/9/2017						0.0006 (J)
6/28/2017	0.0007 (J)	0.0011 (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		
3/28/2018	<0.005	<0.005				
3/30/2018					<0.005	<0.005
4/3/2018				0.0012 (J)		
6/7/2018	<0.005					
6/8/2018		<0.005				
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
10/1/2018	<0.005	<0.005				
10/16/2018			0.00069 (J)			
2/27/2019	<0.005	<0.005				
3/5/2019					<0.005	
3/6/2019						<0.005
4/1/2019	<0.005	<0.005				
4/4/2019					<0.005	<0.005
9/25/2019	<0.005	<0.005			<0.005	<0.005
9/26/2019			<0.005		<0.005	<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/6/2021 8:36 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
2/11/2020		0.0041 (J)				
2/12/2020	0.0038 (J)					
3/19/2020	<0.005	<0.005				
3/25/2020			<0.005			<0.005
3/26/2020					0.0015 (J)	
9/23/2020	<0.005	<0.005			<0.005	
9/24/2020			<0.005			
9/25/2020				<0.005		
10/7/2020						<0.005
2/9/2021				0.0015 (J)	<0.005	
2/10/2021	0.00094 (J)	0.00078 (J)	0.00096 (J)			0.00088 (J)
3/3/2021	<0.005	<0.005			<0.005	
3/4/2021			<0.005	<0.005		<0.005

Time Series

Constituent: Barium (mg/L) Analysis Run 5/6/2021 8:36 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)
6/6/2016						0.028	0.019		
6/7/2016					0.012			0.014	0.0058
7/27/2016					0.0126	0.0294	0.0167	0.0141	
7/28/2016									0.0068 (J)
9/16/2016					0.0127		0.0168		
9/19/2016						0.0247		0.0155	0.0071 (J)
11/2/2016								0.0157	
11/3/2016					0.0128	0.0248	0.0159		0.0092 (J)
1/11/2017					0.0142	0.0266	0.0162		
1/13/2017								0.0158	0.0105
3/1/2017						0.0275	0.0195		
3/2/2017					0.0155				
3/6/2017								0.0163	0.0105
4/26/2017						0.024	0.0182	0.0177	0.011
5/2/2017					0.0138				
6/28/2017						0.0237	0.018		
6/29/2017					0.0128			0.017	0.0109
3/28/2018					0.014	0.024	0.021		
3/29/2018								0.014	<0.01
6/5/2018									0.011
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	0.011
10/16/2018	0.048								
3/5/2019					0.015		0.02	0.016	0.011
3/6/2019						0.024			
4/2/2019					0.016				0.011
4/3/2019						0.025	0.017	0.018	
9/24/2019									0.011
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	0.011
3/24/2020					0.015	0.021	0.017	0.015	0.011
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	0.01
2/9/2021	0.039	0.0085 (J)	0.02	0.042		0.023	0.017	0.015	0.011
3/3/2021	0.035	0.0082	0.021		0.017	0.023	0.017	0.015	
3/4/2021				0.039					0.011

Time Series

Constituent: Barium (mg/L) Analysis Run 5/6/2021 8:36 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			0.013	0.0084	0.019				
6/7/2016						0.045			
7/26/2016			0.0158	0.01	0.0179				
7/28/2016						0.0511			
8/30/2016									0.0455
9/14/2016			0.0143	0.0085 (J)	0.0181				
9/20/2016						0.0561			
11/2/2016			0.0148	0.0091 (J)					
11/4/2016					0.0165				
11/8/2016						0.054			
11/16/2016									0.0541
1/12/2017				0.0089 (J)	0.0199				
1/13/2017			0.0146						
1/16/2017						0.0528			
2/27/2017									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			
4/3/2019			0.017	0.0087 (J)	0.023				
4/4/2019						0.019			

Time Series

Constituent: Barium (mg/L) Analysis Run 5/6/2021 8:36 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
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

Time Series

Constituent: Barium (mg/L) Analysis Run 5/6/2021 8:36 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-11 (bg)	YGWA-2I (bg)	YGWA-30I (bg)
5/1/2007				0.032					
9/11/2007				0.017					
3/20/2008				0.025					
8/27/2008				0.041					
3/3/2009				0.053					
11/18/2009				0.05					
3/3/2010				0.061					
9/8/2010				0.071					
3/10/2011				0.057					
9/8/2011				0.057					
3/5/2012				0.061					
9/10/2012				0.055					
2/6/2013				0.061					
8/12/2013				0.055					
2/5/2014				0.063					
8/5/2014				0.038					
2/4/2015				0.039					
8/3/2015				0.031					
2/16/2016				0.045					
6/1/2016						0.008	0.012		
6/2/2016					0.0081				0.0064
7/25/2016							0.0091 (J)		0.0071 (J)
7/26/2016					0.0082 (J)	0.006 (J)			
8/30/2016			0.0413						
8/31/2016	0.0065 (J)			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)				
9/19/2016									0.0069 (J)
11/1/2016						0.0062 (J)			0.007 (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							
11/16/2016	0.0092 (J)								
11/28/2016				0.0529					
12/15/2016								0.0056 (J)	
1/10/2017					0.0086 (J)				
1/11/2017						0.0069 (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	0.0144		0.0351						
2/27/2017		0.0888							
3/2/2017						0.0071 (J)	0.0112		
3/3/2017								0.0046 (J)	
3/8/2017					0.0088 (J)				
4/26/2017					0.0085 (J)				0.0074 (J)
4/27/2017						0.0064 (J)	0.0106		
4/28/2017								0.0039 (J)	
5/8/2017			0.0251	0.065					

Time Series

Constituent: Barium (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-11 (bg)	YGWA-21 (bg)	YGWA-30I (bg)
5/9/2017		0.0792							
5/10/2017	0.0173								
5/26/2017								0.0034 (J)	
6/27/2017						0.0054 (J)	0.0092 (J)		
6/28/2017								0.003 (J)	
6/30/2017					0.0081 (J)				0.0076 (J)
7/11/2017	0.0183		0.0233						
7/13/2017		0.0839							
7/17/2017				0.06					
10/10/2017			0.0207						
10/11/2017		0.078							
10/12/2017	0.0205								
10/16/2017				0.0542					
2/19/2018				0.0533					
3/27/2018					<0.01		<0.01		<0.01
3/28/2018								<0.01	
3/29/2018						<0.01			
4/2/2018			0.022						
4/4/2018	0.024	0.074							
6/5/2018						0.0069 (J)			
6/6/2018							0.0082 (J)		
6/7/2018								0.0037 (J)	
6/8/2018					0.007 (J)				
6/11/2018									0.007 (J)
8/6/2018				0.044					
9/19/2018			0.023						
9/20/2018	0.035	0.074							
10/1/2018					0.007 (J)	0.0062 (J)	0.0084 (J)	0.0038 (J)	
10/2/2018									0.0069 (J)
2/25/2019				0.045					
2/26/2019					0.0067 (J)				0.007 (J)
2/27/2019						0.0074 (J)	0.008 (J)	0.0035 (J)	
3/28/2019						0.0082 (J)	0.0082 (J)		
3/29/2019					0.0066 (J)			0.0039 (J)	
4/1/2019									0.0072 (J)
6/12/2019				0.063					
8/19/2019				0.065					
8/20/2019			0.024						
8/21/2019	0.03								
9/24/2019						0.0072 (J)	0.0086 (J)	0.0038 (J)	
9/25/2019					0.0071 (J)				0.0066 (J)
9/26/2019		0.065							
10/8/2019			0.025	0.058					
10/9/2019	0.04								
2/10/2020						0.0066 (J)	0.0091 (J)		
2/11/2020								0.0036 (J)	
2/12/2020					0.007 (J)				0.0073 (J)
3/17/2020			0.035	0.047					
3/18/2020					0.0076 (J)		0.0084 (J)		
3/19/2020						0.0076 (J)		0.0036 (J)	0.0074 (J)
3/25/2020	0.033	0.071							
8/26/2020				0.044					

Time Series

Constituent: Barium (mg/L) Analysis Run 5/6/2021 8:36 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-11 (bg)	YGWA-2I (bg)	YGWA-30I (bg)
8/27/2020			0.027						
9/22/2020			0.026	0.045					
9/23/2020						0.0068 (J)	0.0079 (J)	0.0039 (J)	
9/24/2020		0.066							0.0062 (J)
9/25/2020	0.046				0.0073 (J)				
2/9/2021	0.041	0.071							
2/10/2021					0.0078 (J)			0.0032 (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)	
3/4/2021	0.039	0.069							

Time Series

Constituent: Barium (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
6/1/2016		0.0038				
6/2/2016	0.01					
6/8/2016					0.02	
7/25/2016		0.0031 (J)				
7/26/2016	0.0088 (J)					
8/1/2016					0.02	
9/2/2016						0.0409
9/14/2016		0.0027 (J)				
9/15/2016	0.009 (J)					
9/20/2016					0.0203	
11/1/2016	0.0079 (J)	0.0027 (J)				
11/8/2016					0.0191	
11/14/2016						0.0182
1/11/2017	0.0075 (J)	0.0036 (J)				
1/17/2017					0.0192	
2/28/2017						0.023
3/1/2017		0.0036 (J)				
3/2/2017	0.009 (J)					
3/8/2017					0.0189	
4/26/2017	0.0078 (J)	0.0038 (J)				
5/2/2017					0.019	
5/9/2017						0.0349
6/28/2017	0.0071 (J)	0.004 (J)				
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		
3/28/2018	<0.01	<0.01				
3/30/2018					0.02	0.043
4/3/2018				0.051		
6/7/2018	0.0068 (J)					
6/8/2018		0.0034 (J)				
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
10/1/2018	0.0065 (J)	0.0034 (J)				
10/16/2018			0.063			
2/27/2019	0.0059 (J)	0.0034 (J)				
3/5/2019					0.019	
3/6/2019						0.041
4/1/2019	0.0064 (J)	0.003 (J)				
4/4/2019					0.02	0.042
9/25/2019	0.0059 (J)	0.005 (J)				
9/26/2019			0.039		0.017	0.025

Time Series

Constituent: Barium (mg/L) Analysis Run 5/6/2021 8:36 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
2/11/2020		0.0031 (J)				
2/12/2020	0.0062 (J)					
3/19/2020	0.0072 (J)	0.0029 (J)				
3/25/2020			0.039			0.025
3/26/2020					0.019	
9/23/2020	0.0051 (J)	0.0039 (J)			0.026	
9/24/2020			0.034			
9/25/2020				0.034		
10/7/2020						0.04
2/9/2021				0.036	0.031	
2/10/2021	0.0059 (J)	0.0029 (J)	0.032			0.035
3/3/2021	0.0064	0.0031 (J)			0.025	
3/4/2021			0.033	0.036		0.028

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)
6/6/2016						<0.0005	<0.0005		
6/7/2016					<0.0005			<0.0005	<0.0005
7/27/2016					<0.0005	<0.0005	<0.0005	<0.0005	
7/28/2016									<0.0005
9/16/2016				<0.0005			<0.0005		
9/19/2016						<0.0005		<0.0005	<0.0005
11/2/2016								<0.0005	
11/3/2016				<0.0005	<0.0005	<0.0005			<0.0005
1/11/2017				<0.0005	<0.0005	<0.0005			
1/13/2017								<0.0005	<0.0005
3/1/2017						<0.0005	<0.0005		
3/2/2017					8E-05 (J)				
3/6/2017								<0.0005	<0.0005
4/26/2017						<0.0005	<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	<0.0005
3/28/2018				<0.0005	<0.0005	<0.0005			
3/29/2018								<0.0005	<0.0005
6/5/2018									<0.0005
6/6/2018								8E-05 (J)	
6/7/2018						<0.0005			
6/11/2018					9E-05 (J)		5.7E-05 (J)		
9/25/2018					8.9E-05 (J)	<0.0005	8.2E-05 (J)	6.1E-05 (J)	<0.0005
10/16/2018	<0.0005								
3/5/2019					9.1E-05 (J)		7.9E-05 (J)	0.00011 (J)	<0.0005
3/6/2019						<0.0005			
4/2/2019					9E-05 (J)				<0.0005
4/3/2019						<0.0005	7.5E-05 (J)	6.4E-05 (J)	
9/24/2019									<0.0005
9/25/2019					8.1E-05 (J)			<0.0005	
9/26/2019	<0.0005					<0.0005	8.4E-05 (J)		
1/15/2020				0.00017 (J)					
2/11/2020					7.8E-05 (J)	<0.0005	7.6E-05 (J)		
2/12/2020								7.8E-05 (J)	<0.0005
3/24/2020					8E-05 (J)	<0.0005	8.9E-05 (J)	7.6E-05 (J)	<0.0005
3/25/2020	0.00037 (J)								
9/23/2020		<0.0005	<0.0005		8.1E-05 (J)	<0.0005	8.8E-05 (J)		
9/24/2020	5.8E-05 (J)			8.6E-05 (J)				8.3E-05 (J)	<0.0005
2/9/2021	<0.0005	5.1E-05 (J)	<0.0005	0.00015 (J)		<0.0005	9.8E-05 (J)	6.8E-05 (J)	<0.0005
3/3/2021	<0.0005	<0.0005	<0.0005		9.9E-05 (J)	<0.0005	0.00011 (J)	6.8E-05 (J)	
3/4/2021				0.00013 (J)					<0.0005

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.0005	<0.0005	<0.0005				
6/7/2016						<0.0005			
7/26/2016			<0.0005	<0.0005	<0.0005				
7/28/2016						<0.0005			
8/30/2016									9E-05 (J)
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)			
2/27/2017									<0.0005
3/6/2017			<0.0005						
3/7/2017				<0.0005	<0.0005				
3/9/2017						0.0001 (J)			
5/1/2017			<0.0005	<0.0005					
5/2/2017					<0.0005	9E-05 (J)			
5/10/2017									9E-05 (J)
6/27/2017				<0.0005	<0.0005				
6/29/2017			<0.0005						
7/10/2017						<0.0005			
7/11/2017									0.0001 (J)
10/11/2017	<0.0005								
10/12/2017		0.0002 (J)					0.0057	0.0036	<0.0005
11/20/2017	<0.0005	0.0003 (J)					0.0053		
11/21/2017								0.0036	
1/10/2018		0.0003 (J)							
1/11/2018	<0.0005							0.0037	
1/12/2018							0.0053		
2/19/2018		<0.0005						0.0039	
2/20/2018	<0.0005						0.0053		
3/29/2018			<0.0005	<0.0005	<0.0005				
3/30/2018						<0.0005			
4/3/2018	<0.0005	<0.0005					0.0056	0.0037	
4/4/2018									<0.0005
6/6/2018				<0.0005					
6/7/2018			<0.0005		<0.0005				
6/12/2018						8.1E-05 (J)			
6/27/2018								0.0038	
6/28/2018	<0.0005	0.00029 (J)					0.0059		
8/7/2018	<0.0005	0.00024 (J)					0.0058	0.0037	
9/20/2018									<0.0005
9/24/2018	<0.0005	0.00019 (J)					0.0051	0.0032	
9/26/2018			<0.0005	<0.0005	<0.0005				
9/27/2018						9E-05 (J)			
3/4/2019			<0.0005	<0.0005	<0.0005				
3/6/2019						6.6E-05 (J)			
4/3/2019			<0.0005	<0.0005	<0.0005				
4/4/2019						7.2E-05 (J)			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
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

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-11 (bg)	YGWA-2I (bg)	YGWA-30I (bg)
5/1/2007				<0.0005					
9/11/2007				<0.0005					
3/20/2008				<0.0005					
8/27/2008				<0.0005					
3/3/2009				<0.0005					
11/18/2009				<0.0005					
3/3/2010				<0.0005					
9/8/2010				<0.0005					
3/10/2011				<0.0005					
9/8/2011				<0.0005					
3/5/2012				<0.0005					
9/10/2012				<0.0005					
2/6/2013				<0.0005					
8/12/2013				<0.0005					
2/5/2014				<0.0005					
8/5/2014				<0.0005					
2/4/2015				<0.0005					
8/3/2015				<0.0005					
2/16/2016				<0.0005					
6/1/2016						<0.0005	<0.0005		
6/2/2016					<0.0005				<0.0005
7/25/2016							<0.0005		<0.0005
7/26/2016					0.0002 (J)	<0.0005			
8/30/2016			<0.0005						
8/31/2016	<0.0005			<0.0005					
9/1/2016		0.0001 (J)							
9/13/2016						<0.0005	<0.0005		
9/14/2016								<0.0005	
9/15/2016					0.0002 (J)				
9/19/2016									<0.0005
11/1/2016						<0.0005			<0.0005
11/2/2016					0.0002 (J)				
11/4/2016							<0.0005	<0.0005	
11/14/2016			<0.0005						
11/15/2016		0.0001 (J)							
11/16/2016	<0.0005								
11/28/2016				<0.0005					
12/15/2016								<0.0005	
1/10/2017					0.0002 (J)				
1/11/2017						<0.0005			
1/16/2017							<0.0005	<0.0005	<0.0005
2/21/2017									<0.0005
2/22/2017				<0.0005					
2/24/2017	<0.0005		<0.0005						
2/27/2017		0.0001 (J)							
3/2/2017						<0.0005	<0.0005		
3/3/2017								<0.0005	
3/8/2017					0.0002 (J)				
4/26/2017					0.0002 (J)				<0.0005
4/27/2017						<0.0005	<0.0005		
4/28/2017								<0.0005	
5/8/2017			7E-05 (J)	<0.0005					

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-11 (bg)	YGWA-21 (bg)	YGWA-30I (bg)
5/9/2017		0.0001 (J)							
5/10/2017	<0.0005								
5/26/2017								<0.0005	
6/27/2017						<0.0005	<0.0005		
6/28/2017								<0.0005	
6/30/2017					0.0002 (J)				<0.0005
7/11/2017	<0.0005		<0.0005						
7/13/2017		0.0001 (J)							
7/17/2017				<0.0005					
10/10/2017			<0.0005						
10/11/2017		0.0001 (J)							
10/12/2017	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	
3/29/2018						<0.0005			
4/2/2018			<0.0005						
4/4/2018	<0.0005	<0.0005							
8/6/2018				<0.0005					
9/19/2018			5.7E-05 (J)						
9/20/2018	0.00029 (J)	0.00011 (J)							
2/25/2019				<0.0005					
2/26/2019					0.00016 (J)				7.2E-05 (J)
2/27/2019						<0.0005	<0.0005	<0.0005	
3/28/2019						<0.0005	<0.0005		
3/29/2019					0.00017 (J)			<0.0005	
4/1/2019									<0.0005
6/12/2019				<0.0005					
8/19/2019				<0.0005					
8/20/2019			<0.0005						
8/21/2019	0.0003 (J)								
9/24/2019						<0.0005	<0.0005	<0.0005	
9/25/2019					0.00018 (J)				<0.0005
9/26/2019		0.00013 (J)							
10/8/2019				<0.0005					
10/9/2019	0.00034 (J)								
2/10/2020						<0.0005	<0.0005		
2/11/2020								<0.0005	
2/12/2020					0.00019 (J)				<0.0005
3/17/2020				<0.0005					
3/18/2020					0.00021 (J)		<0.0005		
3/19/2020						<0.0005		<0.0005	<0.0005
3/25/2020	0.00034 (J)	0.00013 (J)							
8/26/2020				<0.0005					
8/27/2020			4.7E-05 (J)						
9/22/2020			<0.0005	<0.0005					
9/23/2020						<0.0005	<0.0005	<0.0005	
9/24/2020		0.00013 (J)							<0.0005
9/25/2020	0.00054 (J)				0.00018 (J)				
2/9/2021	0.00053 (J)	0.00013 (J)							
2/10/2021					0.00019 (J)			<0.0005	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/6/2021 8:36 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-11 (bg)	YGWA-2I (bg)	YGWA-30I (bg)
2/11/2021									4.7E-05 (J)
2/12/2021						<0.0005	<0.0005		
3/1/2021			5.5E-05 (J)						<0.0005
3/2/2021				<0.0005	0.00018 (J)				
3/3/2021						<0.0005	<0.0005	<0.0005	
3/4/2021	0.00056	0.0001 (J)							

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
6/1/2016		<0.0005				
6/2/2016	<0.0005					
6/8/2016					<0.0005	
7/25/2016		<0.0005				
7/26/2016	<0.0005					
8/1/2016					0.0001 (J)	
9/2/2016						0.0003 (J)
9/14/2016		<0.0005				
9/15/2016	<0.0005					
9/20/2016					0.0001 (J)	
11/1/2016	<0.0005	<0.0005				
11/8/2016					<0.0005	
11/14/2016						9E-05 (J)
1/11/2017	<0.0005	<0.0005				
1/17/2017					0.0001 (J)	
2/28/2017						0.0001 (J)
3/1/2017		<0.0005				
3/2/2017	<0.0005					
3/8/2017					0.0001 (J)	
4/26/2017	<0.0005	<0.0005				
5/2/2017					0.0001 (J)	
5/9/2017						0.0002 (J)
6/28/2017	<0.0005	<0.0005				
7/7/2017					0.0001 (J)	
7/13/2017						0.0003 (J)
9/22/2017						0.0003 (J)
9/29/2017						0.0003 (J)
10/6/2017						0.0003 (J)
10/12/2017				0.0004 (J)		
11/21/2017				0.0004 (J)		
1/11/2018				0.0003 (J)		
2/20/2018				<0.0005		
3/28/2018	<0.0005	<0.0005				
3/30/2018					<0.0005	<0.0005
4/3/2018				<0.0005		
6/12/2018					0.00012 (J)	
6/13/2018						0.00035 (J)
6/29/2018				0.00033 (J)		
8/6/2018				0.0002 (J)		
8/30/2018			0.00052 (J)			
9/24/2018				0.00029 (J)		
9/26/2018					0.00014 (J)	0.00032 (J)
10/16/2018			0.00036 (J)			
2/27/2019	<0.0005	<0.0005				
3/5/2019					0.00016 (J)	
3/6/2019						0.00029 (J)
4/1/2019	<0.0005	<0.0005				
4/4/2019					0.00015 (J)	0.00033 (J)
9/25/2019	<0.0005	<0.0005				
9/26/2019			<0.0005		0.00014 (J)	0.00029 (J)
2/11/2020		<0.0005				
2/12/2020	<0.0005					

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/6/2021 8:36 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
3/19/2020	<0.0005	<0.0005				
3/25/2020			<0.0005			0.00022 (J)
3/26/2020					0.00016 (J)	
9/23/2020	<0.0005	5.9E-05 (J)			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	<0.0005	<0.0005	0.00025 (J)			9.9E-05 (J)
3/3/2021	<0.0005	<0.0005			9.9E-05 (J)	
3/4/2021			0.00025 (J)	0.00017 (J)		0.00016 (J)

Time Series

Constituent: Boron (mg/L) Analysis Run 5/6/2021 8:36 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)
6/6/2016						<0.04	<0.04		
6/7/2016					<0.04			<0.04	<0.04
7/27/2016					0.008 (J)	<0.04	0.0059 (J)	<0.04	
7/28/2016									<0.04
9/16/2016					0.0086 (J)		0.0079 (J)		
9/19/2016						<0.04		<0.04	<0.04
11/2/2016								<0.04	
11/3/2016					0.0077 (J)	<0.04	0.0082 (J)		<0.04
1/11/2017					0.0092 (J)	<0.04	0.0096 (J)		
1/13/2017								<0.04	<0.04
3/1/2017						<0.04	<0.04		
3/2/2017					0.0095 (J)				
3/6/2017								<0.04	<0.04
4/26/2017						<0.04	0.0091 (J)	<0.04	<0.04
5/2/2017					<0.04				
6/28/2017						<0.04	0.0079 (J)		
6/29/2017					0.0074 (J)			<0.04	<0.04
10/3/2017									<0.04
10/4/2017					0.0077 (J)		0.009 (J)	<0.04	
10/5/2017						<0.04			
6/5/2018									0.0092 (J)
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	0.0054 (J)
10/16/2018	0.2								
4/2/2019					0.0066 (J)				0.011 (J)
4/3/2019						<0.04	0.0053 (J)	<0.04	
9/24/2019									0.018 (J)
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			1.9						
2/11/2020				7.8					
3/24/2020					0.0092 (J)	0.0054 (J)	0.01 (J)	<0.04	0.016 (J)
3/25/2020	0.018 (J)								
9/23/2020		0.026 (J)	2.5		0.0066 (J)	0.021 (J)	0.006 (J)		
9/24/2020	0.076 (J)			8.7				0.0094 (J)	0.013 (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					0.0079 (J)

Time Series

Constituent: Boron (mg/L) Analysis Run 5/6/2021 8:36 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (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
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			
2/27/2017									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
3/28/2019								7.1	
4/3/2019			0.0055 (J)	0.0076 (J)	0.0044 (J)				

Time Series

Constituent: Boron (mg/L) Analysis Run 5/6/2021 8:36 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
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

Time Series

Constituent: Boron (mg/L) Analysis Run 5/6/2021 8:36 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-11 (bg)	YGWA-2I (bg)	YGWA-30I (bg)
6/1/2016						<0.04	<0.04		
6/2/2016					<0.04				<0.04
7/25/2016							<0.04		<0.04
7/26/2016					0.0177 (J)	0.0055 (J)			
8/30/2016			0.0166 (J)						
8/31/2016	0.169			0.0315 (J)					
9/1/2016		0.0113 (J)							
9/13/2016						<0.04	<0.04		
9/14/2016								<0.04	
9/15/2016					0.0214 (J)				
9/19/2016									<0.04
11/1/2016						0.0086 (J)			<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)							
11/16/2016	0.406								
11/28/2016				0.0095 (J)					
12/15/2016								0.0107 (J)	
1/10/2017					0.0198 (J)				
1/11/2017						0.0074 (J)			
1/16/2017							<0.04	<0.04	<0.04
2/21/2017									<0.04
2/22/2017				<0.04					
2/24/2017	0.725		0.0145 (J)						
2/27/2017		<0.04							
3/2/2017						0.008 (J)	<0.04		
3/3/2017								<0.04	
3/8/2017					0.0189 (J)				
4/26/2017					0.0161 (J)				<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							
5/10/2017	0.955								
5/26/2017								<0.04	
6/27/2017						0.0087 (J)	0.006 (J)		
6/28/2017								<0.04	
6/30/2017					0.0173 (J)				<0.04
7/11/2017	0.994		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
10/5/2017					0.0173 (J)				
10/10/2017			0.0124 (J)						
10/11/2017		<0.04							
10/12/2017	1.15								
10/16/2017				<0.04					
2/19/2018				<0.04					
4/2/2018			0.013 (J)						
4/4/2018	1.2	0.0041 (J)							

Time Series

Constituent: Boron (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-11 (bg)	YGWA-21 (bg)	YGWA-30I (bg)
6/5/2018						0.0052 (J)			
6/6/2018							<0.04		
6/7/2018								<0.04	
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	2.1	0.0042 (J)							
10/1/2018					0.015 (J)	0.021 (J)	0.0049 (J)	<0.04	
10/2/2018									<0.04
2/25/2019				<0.04					
3/27/2019			0.013 (J)						
3/28/2019	1.8	<0.04				0.005 (J)	<0.04		
3/29/2019					0.014 (J)			0.0065 (J)	
4/1/2019									<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
9/26/2019		<0.04							
10/8/2019			0.012 (J)	<0.04					
10/9/2019	2.7								
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)
3/25/2020	2.4	0.012 (J)							
9/22/2020			0.0076 (J)	0.0079 (J)					
9/23/2020						<0.04	<0.04	<0.04	
9/24/2020		0.062 (J)							0.0075 (J)
9/25/2020	3.9				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	
3/4/2021	3.6	<0.04							

Time Series

Constituent: Boron (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
6/1/2016		<0.04				
6/2/2016	<0.04					
6/8/2016					<0.04	
7/25/2016		<0.04				
7/26/2016	0.0097 (J)					
8/1/2016					<0.04	
9/2/2016						0.133
9/14/2016		<0.04				
9/15/2016	0.0102 (J)					
9/20/2016					<0.04	
11/1/2016	<0.04	<0.04				
11/8/2016					<0.04	
11/14/2016						0.287
1/11/2017	<0.04	<0.04				
1/17/2017					<0.04	
2/28/2017						0.215
3/1/2017		<0.04				
3/2/2017	0.0084 (J)					
3/8/2017					<0.04	
4/26/2017	<0.04	<0.04				
5/2/2017					0.0099 (J)	
5/9/2017						0.233
6/28/2017	<0.04	<0.04				
7/7/2017					0.0076 (J)	
7/13/2017						0.262
9/22/2017						0.238
9/29/2017						0.235
10/4/2017	<0.04	<0.04				
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		
6/7/2018	0.004 (J)					
6/8/2018		<0.04				
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
10/1/2018	<0.04	<0.04				
10/16/2018			0.031 (J)			
4/1/2019	<0.04	<0.04				
4/4/2019					<0.04	0.22
9/25/2019	0.0054 (J)	<0.04				
9/26/2019			<0.04		0.0068 (J)	0.13
3/19/2020	0.0073 (J)	0.0053 (J)				

Time Series

Constituent: Boron (mg/L) Analysis Run 5/6/2021 8:36 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
3/25/2020			0.071 (J)			0.11
3/26/2020					0.033 (J)	
9/23/2020	0.012 (J)	0.0073 (J)			<0.04	
9/24/2020			0.017 (J)			
9/25/2020				14.1		
10/7/2020						0.018 (J)
3/3/2021	<0.04	<0.04			<0.04	
3/4/2021			0.012 (J)	12.4		0.0088 (J)

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/6/2021 8:36 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)
6/6/2016						<0.0005	<0.0005		
6/7/2016					<0.0005			<0.0005	<0.0005
7/27/2016					<0.0005	<0.0005	<0.0005	<0.0005	
7/28/2016									<0.0005
9/16/2016				<0.0005			<0.0005		
9/19/2016						<0.0005		<0.0005	<0.0005
11/2/2016								<0.0005	
11/3/2016				<0.0005	<0.0005	<0.0005			<0.0005
1/11/2017				0.0001 (J)	<0.0005	0.0001 (J)			
1/13/2017							<0.0005		<0.0005
3/1/2017						<0.0005	<0.0005		
3/2/2017				<0.0005					
3/6/2017								<0.0005	<0.0005
4/26/2017						<0.0005	<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	<0.0005
3/28/2018				<0.0005	<0.0005	<0.0005			
3/29/2018								<0.0005	<0.0005
6/5/2018									<0.0005
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		9.6E-05 (J)
10/16/2018	0.00014 (J)								
3/5/2019				<0.0005			<0.0005	<0.0005	<0.0005
3/6/2019						<0.0005			
4/2/2019				<0.0005					<0.0005
4/3/2019						<0.0005	<0.0005	<0.0005	
9/24/2019									<0.0005
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	<0.0005
3/24/2020				<0.0005	<0.0005	<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	<0.0005
2/9/2021	0.00013 (J)	<0.0005	<0.0005	0.00025 (J)		<0.0005	<0.0005	<0.0005	0.00041 (J)
3/3/2021	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	
3/4/2021				0.00018 (J)					<0.0005

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/6/2021 8:36 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (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
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			
2/27/2017									<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			
4/3/2019			<0.0005	<0.0005	<0.0005				
4/4/2019						<0.0005			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
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

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/6/2021 8:36 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-11 (bg)	YGWA-21 (bg)	YGWA-30I (bg)
5/1/2007				<0.0005					
9/11/2007				<0.0005					
3/20/2008				<0.0005					
8/27/2008				<0.0005					
3/3/2009				<0.0005					
11/18/2009				<0.0005					
3/3/2010				<0.0005					
9/8/2010				<0.0005					
3/10/2011				<0.0005					
9/8/2011				<0.0005					
3/5/2012				<0.0005					
9/10/2012				<0.0005					
2/6/2013				<0.0005					
8/12/2013				<0.0005					
2/5/2014				<0.0005					
8/5/2014				<0.0005					
2/4/2015				<0.0005					
8/3/2015				<0.0005					
2/16/2016				<0.0005					
6/1/2016						<0.0005	<0.0005		
6/2/2016					<0.0005				<0.0005
7/25/2016							<0.0005		<0.0005
7/26/2016					<0.0005	<0.0005			
8/30/2016			0.0001 (J)						
8/31/2016	<0.0005			<0.0005					
9/1/2016		<0.0005							
9/13/2016						<0.0005	<0.0005		
9/14/2016								<0.0005	
9/15/2016					<0.0005				
9/19/2016									<0.0005
11/1/2016						<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							
11/16/2016	<0.0005								
11/28/2016				<0.0005					
12/15/2016								<0.0005	
1/10/2017					<0.0005				
1/11/2017						0.0002 (J)			
1/16/2017							<0.0005	<0.0005	<0.0005
2/21/2017									<0.0005
2/22/2017				<0.0005					
2/24/2017	<0.0005		9E-05 (J)						
2/27/2017		7E-05 (J)							
3/2/2017						<0.0005	<0.0005		
3/3/2017								<0.0005	
3/8/2017					7E-05 (J)				
4/26/2017					<0.0005				<0.0005
4/27/2017						<0.0005	<0.0005		
4/28/2017								<0.0005	
5/8/2017			0.0001 (J)	<0.0005					

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-11 (bg)	YGWA-21 (bg)	YGWA-30I (bg)
5/9/2017		<0.0005							
5/10/2017	<0.0005								
5/26/2017								<0.0005	
6/27/2017						<0.0005	<0.0005		
6/28/2017								<0.0005	
6/30/2017					<0.0005				<0.0005
7/11/2017	<0.0005		<0.0005						
7/13/2017		<0.0005							
7/17/2017				<0.0005					
10/10/2017			<0.0005						
10/11/2017		<0.0005							
10/12/2017	<0.0005								
10/16/2017				<0.0005					
2/19/2018				<0.0005					
3/27/2018					<0.0005		<0.0005		<0.0005
3/28/2018								<0.0005	
3/29/2018						<0.0005			
4/2/2018			<0.0005						
4/4/2018	<0.0005	<0.0005							
8/6/2018				<0.0005					
9/19/2018			<0.0005						
9/20/2018	<0.0005	<0.0005							
2/25/2019				<0.0005					
2/26/2019					<0.0005				<0.0005
2/27/2019						<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
6/12/2019				<0.0005					
8/19/2019				<0.0005					
8/20/2019			<0.0005						
8/21/2019	<0.0005								
9/24/2019						<0.0005	<0.0005	<0.0005	
9/25/2019					<0.0005				<0.0005
9/26/2019		<0.0005							
10/8/2019			<0.0005	<0.0005					
10/9/2019	<0.0005								
2/10/2020						<0.0005	<0.0005		
2/11/2020								<0.0005	
2/12/2020					<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
3/25/2020	<0.0005	<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	
9/24/2020		<0.0005							<0.0005
9/25/2020	<0.0005				<0.0005				
2/9/2021	<0.0005	<0.0005							
2/10/2021					<0.0005			<0.0005	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/6/2021 8:36 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
2/11/2021									<0.0005
2/12/2021						<0.0005	<0.0005		
3/1/2021									<0.0005
3/2/2021				<0.0005	<0.0005				
3/3/2021						<0.0005	<0.0005	<0.0005	
3/4/2021	<0.0005	<0.0005							

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
6/1/2016		<0.0005				
6/2/2016	<0.0005					
6/8/2016					<0.0005	
7/25/2016		<0.0005				
7/26/2016	<0.0005					
8/1/2016					<0.0005	
9/2/2016						<0.0005
9/14/2016		<0.0005				
9/15/2016	<0.0005					
9/20/2016					<0.0005	
11/1/2016	<0.0005	<0.0005				
11/8/2016					<0.0005	
11/14/2016						9E-05 (J)
1/11/2017	0.0001 (J)	8E-05 (J)				
1/17/2017					<0.0005	
2/28/2017						0.0001 (J)
3/1/2017		<0.0005				
3/2/2017	<0.0005					
3/8/2017					<0.0005	
4/26/2017	<0.0005	<0.0005				
5/2/2017					<0.0005	
5/9/2017						0.0002 (J)
6/28/2017	<0.0005	<0.0005				
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		
3/28/2018	<0.0005	<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			
2/27/2019	<0.0005	<0.0005				
3/5/2019					<0.0005	
3/6/2019						0.00015 (J)
4/1/2019	<0.0005	<0.0005				
4/4/2019					<0.0005	0.00019 (J)
9/25/2019	<0.0005	<0.0005				
9/26/2019			<0.0005		<0.0005	0.00017 (J)
2/11/2020		<0.0005				
2/12/2020	<0.0005					
3/19/2020	<0.0005	<0.0005				

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/6/2021 8:36 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
3/25/2020			0.00016 (J)			0.00019 (J)
3/26/2020					<0.0005	
9/23/2020	<0.0005	<0.0005			<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	<0.0005			<0.0005
3/3/2021	<0.0005	<0.0005			<0.0005	
3/4/2021			<0.0005	0.00028 (J)		<0.0005

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)
6/6/2016						6.2	1.4		
6/7/2016					2.2			2.3	3.7
7/27/2016					2	4.73	1.19	2.08	
7/28/2016									3.15
9/16/2016				1.97			1.5		
9/19/2016						4.76		1.97	3.17
11/2/2016								2.13	
11/3/2016				1.99		5.25	1.31		3.4
1/11/2017				2.28		4.74	1.25		
1/13/2017								2.45	4.98
3/1/2017						5.37	1.26		
3/2/2017				2.15					
3/6/2017								2.48	6.28
4/26/2017						4.28	1.05	2.3	6.65
5/2/2017				1.95					
6/28/2017						4.95	1.06		
6/29/2017				2.02				2.54	6.04
10/3/2017									8.28
10/4/2017				2.03			1.1	2.25	
10/5/2017						5.28			
6/5/2018									9.1
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	10.4 (J)
10/16/2018	14.5 (J)								
4/2/2019				2.5					8.8
4/3/2019						5.3	1.2	2.9	
9/24/2019									7.7
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	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	7.8
3/3/2021	6.9	1.5	20.6		2.5	5.2	0.96 (J)	2.4	
3/4/2021				53.8					8.7

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (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
9/14/2016			8.49	31	2.18				
9/20/2016						9.28			
11/2/2016			7.83	30.9					
11/4/2016					2.17 (J)				
11/8/2016						8.6			
11/16/2016									125
1/12/2017				35.7	2.37				
1/13/2017			8.08						
1/16/2017						8.85			
2/27/2017									139
3/6/2017			8.64						
3/7/2017				32.7	2.34				
3/9/2017						8.4			
5/1/2017			13.4	37					
5/2/2017					2.17	12.9			
5/10/2017									130
6/27/2017				36.5	2.13				
6/29/2017			8.81						
7/10/2017						8.09			
7/11/2017									172
10/3/2017				30.9	2.15				
10/5/2017			9.29						
10/11/2017	2.74					6.36			
10/12/2017		2.9					190	44.5	144
11/20/2017	1.81	10.4					184		
11/21/2017								44.4	
1/10/2018		10.2							
1/11/2018	1.54							43.9	
1/12/2018							178		
2/19/2018		<25						45.3	
2/20/2018	1.71						184		
4/3/2018	1.4	6.3					174	42.7	
4/4/2018									137
6/6/2018				26.2					
6/7/2018			8.2		2.3				
6/12/2018						4.7			
6/27/2018								42.2	
6/28/2018	1.4	6.7					190		
8/7/2018	1.2	6.3					176	40.7	
9/20/2018									108
9/24/2018	1.1	5.7					172	38.5	
9/26/2018			9.5 (J)	25.8	2.3				
9/27/2018						4.1			
3/26/2019		5.6							
3/27/2019	1.5						155		109
3/28/2019								26	
4/3/2019			8.4	24.7 (J)	2.8				

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/6/2021 8:36 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
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

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-11 (bg)	YGWA-2I (bg)	YGWA-30I (bg)
6/1/2016						12	2.5		
6/2/2016					1.3				1.3
7/25/2016							2.16		1.17
7/26/2016					1.24	11			
8/30/2016			20.9						
8/31/2016	3.4			9.31					
9/1/2016		13.9							
9/13/2016						11.8	2.21		
9/14/2016								23.5	
9/15/2016					1.17				
9/19/2016									1.05
11/1/2016						11			1.14
11/2/2016					1.23				
11/4/2016							2.67	23.7	
11/14/2016			18.6						
11/15/2016		13.5							
11/16/2016	3.79								
11/28/2016				9.47 (B)					
12/15/2016								23.1	
1/10/2017					1.24				
1/11/2017						11.2			
1/16/2017							2.45	23.3	1.23
2/21/2017									1.25
2/22/2017				10.4					
2/24/2017	6.42		16.1						
2/27/2017		12.5							
3/2/2017						11	2.57		
3/3/2017								25.1	
3/8/2017					1.21				
4/26/2017					1.14				1.03
4/27/2017						11.1	2.38		
4/28/2017								30.7	
5/8/2017			14.6	14.2					
5/9/2017		14.4							
5/10/2017	7.9								
5/26/2017								26.2	
6/27/2017						13.8	2.36		
6/28/2017								26.1	
6/30/2017					1.24				1.13
7/11/2017	6.71		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
10/5/2017					1.11				
10/10/2017			12.1						
10/11/2017		12.4							
10/12/2017	7.05								
10/16/2017				13.6					
2/19/2018				<25					
4/2/2018			<25						
4/4/2018	8.6	<25							

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-11 (bg)	YGWA-2I (bg)	YGWA-30I (bg)
6/5/2018						15.2 (J)			
6/6/2018							2.3		
6/7/2018								25	
6/8/2018					1.1				
6/11/2018									1.1
8/6/2018				11.4 (J)					
9/19/2018			11.1 (J)						
9/20/2018	15.9 (J)	12 (J)							
10/1/2018					0.99	15.1	1.8	25	
10/2/2018									1.1
2/25/2019				12.7 (J)					
3/27/2019			10.8 (J)						
3/28/2019	8.9	11.3 (J)				13.3 (J)	2.2		
3/29/2019					1.1			23.5 (J)	
4/1/2019									1.3
6/12/2019				18.9					
9/24/2019						15.8	2.3	26.4	
9/25/2019					1.1				1.1
9/26/2019		12.1							
10/8/2019			9.7	28.3					
10/9/2019	18.2								
3/17/2020			14.8	24.3					
3/18/2020					1.1		2.1		
3/19/2020						15		27.4	1.2
3/25/2020	12.1	13.2							
9/22/2020			10.1	31					
9/23/2020						14.1	1.8	26.3	
9/24/2020		12							1.1
9/25/2020	19.8				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	
3/4/2021	32.2	13							

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
6/1/2016		21				
6/2/2016	28					
6/8/2016					1.9	
7/25/2016		20.3				
7/26/2016	24.5					
8/1/2016					1.83	
9/2/2016						11.2
9/14/2016		19.7				
9/15/2016	27					
9/20/2016					1.78	
11/1/2016	25.6	18.4				
11/8/2016					1.77	
11/14/2016						7.79
1/11/2017	27.5	20.3				
1/17/2017					1.7	
2/28/2017						8.37
3/1/2017		18.6				
3/2/2017	27.5					
3/8/2017					1.77	
4/26/2017	30.4	25.6				
5/2/2017					1.57	
5/9/2017						13.9
6/28/2017	29.8	23.9				
7/7/2017					1.8	
7/13/2017						16.6
9/22/2017						18.4
9/29/2017						16.1
10/4/2017	29.7	22.1				
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		
6/7/2018	29.1					
6/8/2018		21.9 (J)				
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)
10/1/2018	26.9	19.7				
10/16/2018			6.5			
4/1/2019	30.1	20.4 (J)				
4/4/2019					1.9	16.9 (J)
9/25/2019	29.5	22.4				
9/26/2019			4.7		1.7	11.7
3/19/2020	31.5	21.9				
3/25/2020			7.9			10.6

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/6/2021 8:36 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
3/26/2020					1.7	
9/23/2020	28.6	23.6			2.4	
9/24/2020			3.6			
9/25/2020				108		
10/7/2020						9.9
3/3/2021	29.8	20.6			2.4	
3/4/2021			4.4	118		5.6

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)
6/6/2016						6.8	6.4		
6/7/2016				4.5				1.9	2.8
7/27/2016				4.5		6.7	6.2	1.9	
7/28/2016									2.6
9/16/2016				4.5			6.1		
9/19/2016						7		1.9	2.4
11/2/2016								2.6	
11/3/2016				5.4		7.5	7.4		2.9
1/11/2017				4.7		6.5	6.1		
1/13/2017								2.3	2.5
3/1/2017						6.9	6		
3/2/2017				4.8					
3/6/2017								1.9	2.1
4/26/2017						7	6.5	2	2.1
5/2/2017				4.6					
6/28/2017						7	6.4		
6/29/2017				4.5				2.6	2.8
10/3/2017									2.2
10/4/2017				4.7			6.8	2.6	
10/5/2017						7			
6/5/2018									1.7
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	2.2
10/16/2018	12.1								
4/2/2019				4.8					2.5
4/3/2019						6.9	6.3	3.1	
9/24/2019									3.1
9/25/2019				5.7				2.8	
9/26/2019	6.4					7	7.1		
3/24/2020				5		7	6.8	2.7	2.8
3/25/2020	7.7								
9/23/2020		2.7	1.8		6.6	7.2	7.2		
9/24/2020	6.6			3.7				2.7	2
3/3/2021	6.1	2.5	22.9		7.1	7	7.2	2.7	
3/4/2021				3.7					1.8

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (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
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			
2/27/2017									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
3/28/2019								3.2	
4/3/2019			4.3	4	4.2				

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/6/2021 8:36 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
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

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-11 (bg)	YGWA-2I (bg)	YGWA-30I (bg)
6/1/2016						1.3	1.6		
6/2/2016					4.1				1.9
7/25/2016							1.4		1.7
7/26/2016					4	1.2			
8/30/2016			5.2						
8/31/2016	1.5			4					
9/1/2016		5.3							
9/13/2016						1.1	1.3		
9/14/2016								1.1	
9/15/2016					4.2				
9/19/2016									1.6
11/1/2016						1.3			1.8
11/2/2016					4.9				
11/4/2016							1.6	1.4	
11/14/2016			6.4						
11/15/2016		5.8							
11/16/2016	1.7								
11/28/2016				4.2					
12/15/2016								2.9	
1/10/2017					4.1				
1/11/2017						1.1			
1/16/2017							1.4	0.98	1.7
2/21/2017									1.7
2/22/2017				3.7					
2/24/2017	1.5		5.5						
2/27/2017		4.6							
3/2/2017						1	1.3		
3/3/2017								1.1	
3/8/2017					4.2				
4/26/2017					4.1				1.7
4/27/2017						1	1.3		
4/28/2017								0.91	
5/8/2017			5.8	4.2					
5/9/2017		5.3							
5/10/2017	1.2								
5/26/2017								0.93	
6/27/2017						1.1	1.4		
6/28/2017								1	
6/30/2017					3.7				1.8
7/11/2017	1.5		5.8						
7/13/2017		4.7							
7/17/2017				3.8					
10/3/2017						1.1	1.7	1.2	
10/4/2017									1.8
10/5/2017					3.8				
10/10/2017			5.9						
10/11/2017		5.8							
10/12/2017	1.6								
10/16/2017				4.2					
2/19/2018				4.3					
4/2/2018			4.8						
4/4/2018	1.8	4.3							

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-11 (bg)	YGWA-2I (bg)	YGWA-30I (bg)
6/5/2018						1.1			
6/6/2018							1.4		
6/7/2018								1	
6/8/2018					3.4				
6/11/2018									2
8/6/2018				3.8					
9/19/2018			4						
9/20/2018	1.9	4.8							
10/1/2018					3.8	1.1	1.4	1.1	
10/2/2018									1.8
2/25/2019				4.1					
3/27/2019			4.3						
3/28/2019	1.8	4.4				1.4	1.5		
3/29/2019					4.2			1.2	
4/1/2019									1.7
6/12/2019				4.7					
9/24/2019						1.1	1.3	0.95 (J)	
9/25/2019					4.8				1.6
9/26/2019		5							
10/8/2019			4.4	5.1					
10/9/2019	2.3								
3/17/2020			4.1	4.8					
3/18/2020					5.2		1.4		
3/19/2020						1.1		0.97 (J)	1.8
3/25/2020	1.8	4.1							
9/22/2020			4.2	4.2					
9/23/2020						0.99 (J)	1.2	0.88 (J)	
9/24/2020		4.6							1.5
9/25/2020	2.3				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)	
3/4/2021	2.1	4.1							

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
6/1/2016		1.3				
6/2/2016	1.4					
6/8/2016					5.9	
7/25/2016		1.3				
7/26/2016	1.6					
8/1/2016					5.3	
9/2/2016						6.3
9/14/2016		1.3				
9/15/2016	1.5					
9/20/2016					5.5	
11/1/2016	1.7	1.4				
11/8/2016					6.4	
11/14/2016						6.7
1/11/2017	1.2	1.1				
1/17/2017					5.5	
2/28/2017						5.4
3/1/2017		1.1				
3/2/2017	1.2					
3/8/2017					5.4	
4/26/2017	1.2	1.1				
5/2/2017					5.7	
5/9/2017						5.7
6/28/2017	1.3	1.2				
7/7/2017					5.7	
7/13/2017						5.4
9/22/2017						6.9
9/29/2017						5.5
10/4/2017	1.5	1.2				
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		
6/7/2018	1.2					
6/8/2018		1.2				
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
10/1/2018	1.5	1.2				
10/16/2018			8.5			
4/1/2019	1.2	1.1				
4/4/2019					5.9	5.4
9/25/2019	1.1	1.1				
9/26/2019			7.5		6.5	7.1
3/19/2020	1.2	1.1				
3/25/2020			6.8			6.3

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/6/2021 8:36 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
3/26/2020					5.4	
9/23/2020	1.1	1			9.3	
9/24/2020			7.5			
9/25/2020				4.3		
10/7/2020						8.7
3/3/2021	1.1	0.99 (J)			8.6	
3/4/2021			6.7	3.9		6.6

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/6/2021 8:36 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)
6/6/2016						0.0012 (J)	<0.005		
6/7/2016					<0.005			<0.005	<0.005
7/27/2016					0.0008 (J)	0.0007 (J)	0.0006 (J)	0.0005 (J)	
7/28/2016									<0.005
9/16/2016					<0.005		<0.005		
9/19/2016						<0.005		<0.005	<0.005
11/2/2016								<0.005	
11/3/2016					<0.005	<0.005	<0.005		<0.005
1/11/2017					<0.005	<0.005	<0.005		
1/13/2017								<0.005	<0.005
3/1/2017						0.0012 (J)	<0.005		
3/2/2017					0.001 (J)				
3/6/2017								<0.005	<0.005
4/26/2017						0.0005 (J)	0.0003 (J)	0.0007 (J)	<0.005
5/2/2017					0.0007 (J)				
6/28/2017						0.0006 (J)	<0.005		
6/29/2017					0.0006 (J)			0.0005 (J)	<0.005
3/28/2018					<0.005	<0.005	<0.005		
3/29/2018								<0.005	<0.005
3/5/2019					<0.005		<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)	<0.005
3/24/2020					0.00087 (J)	0.00095 (J)	0.0011 (J)	0.00077 (J)	<0.005
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)	<0.005
2/9/2021	0.001 (J)	0.0011 (J)	0.00057 (J)	<0.005		0.00083 (J)	0.0013 (J)	0.00056 (J)	<0.005
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					<0.005

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/6/2021 8:36 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.005	<0.005	<0.005				
6/7/2016						<0.005			
7/26/2016			<0.005	<0.005	<0.005				
7/28/2016						0.0008 (J)			
8/30/2016									<0.005
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			
2/27/2017									<0.005
3/6/2017			<0.005						
3/7/2017				<0.005	<0.005				
3/9/2017						<0.005			
5/1/2017			<0.005	0.0004 (J)					
5/2/2017					<0.005	0.0007 (J)			
5/10/2017									0.0006 (J)
6/27/2017				<0.005	<0.005				
6/29/2017			<0.005						
7/10/2017						<0.005			
7/11/2017									<0.005
10/11/2017	<0.005								
10/12/2017		<0.005					0.0005 (J)	<0.005	<0.005
11/20/2017	<0.005	<0.005					<0.005		
11/21/2017								<0.005	
1/10/2018		<0.005							
1/11/2018	<0.005							<0.005	
1/12/2018							<0.005		
2/19/2018		<0.005						<0.005	
2/20/2018	<0.005						<0.005		
3/29/2018			<0.005	<0.005	<0.005				
3/30/2018						<0.005			
4/3/2018	<0.005	<0.005					<0.005	<0.005	
4/4/2018									<0.005
6/27/2018								<0.005	
6/28/2018	<0.005	<0.005					<0.005		
8/7/2018	<0.005	<0.005					<0.005	<0.005	
9/20/2018									<0.005
9/24/2018	<0.005	<0.005					<0.005	<0.005	
3/4/2019			<0.005	<0.005	<0.005				
3/6/2019						<0.005			
8/21/2019	<0.005	0.00053 (J)							
8/22/2019							<0.005	<0.005	<0.005
10/9/2019	<0.005	0.0012 (J)					<0.005	<0.005	0.00043 (J)
2/12/2020	<0.005	0.00065 (J)	<0.005	<0.005	0.00043 (J)				
3/24/2020		0.00055 (J)		<0.005	0.0014 (J)				
3/25/2020	<0.005		0.00058 (J)				0.00065 (J)	0.00039 (J)	0.0013 (J)
3/26/2020						0.0019 (J)			

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/6/2021 8:36 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
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

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/6/2021 8:36 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-11 (bg)	YGWA-21 (bg)	YGWA-30I (bg)
5/1/2007				0.0029					
9/11/2007				0.0084					
3/20/2008				0.0027					
8/27/2008				0.0026					
3/3/2009				0.0022					
11/18/2009				0.0036					
3/3/2010				<0.005					
9/8/2010				<0.005					
3/10/2011				<0.005					
9/8/2011				<0.005					
3/5/2012				<0.005					
9/10/2012				<0.005					
2/6/2013				<0.005					
8/12/2013				<0.005					
2/5/2014				0.0059					
8/5/2014				<0.005					
2/4/2015				<0.005					
8/3/2015				0.0011 (J)					
2/16/2016				<0.005					
6/1/2016						0.0035	<0.005		
6/2/2016					<0.005				<0.005
7/25/2016							<0.005		<0.005
7/26/2016					<0.005	<0.005			
8/30/2016			<0.005						
8/31/2016	<0.005			<0.005					
9/1/2016		0.0013 (J)							
9/13/2016						<0.005	<0.005		
9/14/2016								<0.005	
9/15/2016					<0.005				
9/19/2016									<0.005
11/1/2016						<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)							
11/16/2016	<0.005								
11/28/2016				<0.005					
12/15/2016								<0.005	
1/10/2017					<0.005				
1/11/2017						<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		<0.005						
2/27/2017		0.0016 (J)							
3/2/2017						0.0009 (J)	0.0004 (J)		
3/3/2017								0.0005 (J)	
3/8/2017					<0.005				
4/26/2017					<0.005				0.0016 (J)
4/27/2017						<0.005	<0.005		
4/28/2017								0.0004 (J)	
5/8/2017			<0.005	<0.005					

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/6/2021 8:36 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-11 (bg)	YGWA-2I (bg)	YGWA-30I (bg)
2/12/2021						<0.005	<0.005		
3/1/2021			<0.005						<0.005
3/2/2021				<0.005	<0.005				
3/3/2021						<0.005	<0.005	<0.005	
3/4/2021	<0.005	0.0017 (J)							

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
6/1/2016		<0.005				
6/2/2016	0.0013 (J)					
6/8/2016					<0.005	
7/25/2016		<0.005				
7/26/2016	<0.005					
8/1/2016					<0.005	
9/2/2016						<0.005
9/14/2016		<0.005				
9/15/2016	<0.005					
9/20/2016					<0.005	
11/1/2016	<0.005	<0.005				
11/8/2016					<0.005	
11/14/2016						0.0035
1/11/2017	<0.005	<0.005				
1/17/2017					<0.005	
2/28/2017						<0.005
3/1/2017		0.0004 (J)				
3/2/2017	0.0006 (J)					
3/8/2017					<0.005	
4/26/2017	<0.005	<0.005				
5/2/2017					0.0011 (J)	
5/9/2017						<0.005
6/28/2017	<0.005	<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		
3/28/2018	<0.005	<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		
2/27/2019	<0.005	<0.005				
3/5/2019					<0.005	
3/6/2019						<0.005
4/1/2019	<0.005	<0.005				
9/25/2019	0.0014 (J)	0.0019 (J)				
2/11/2020		<0.005				
2/12/2020	<0.005					
3/19/2020	<0.005	<0.005				
3/25/2020			0.0012 (J)			0.00074 (J)
3/26/2020					0.00094 (J)	
9/23/2020	<0.005	<0.005			<0.005	
9/24/2020			0.00061 (J)			
9/25/2020				<0.005		
10/7/2020						0.0013 (J)

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/6/2021 8:36 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
2/9/2021				<0.005	0.0011 (J)	
2/10/2021	<0.005	<0.005	0.0006 (J)			0.00094 (J)
3/3/2021	<0.005	<0.005			<0.005	
3/4/2021			0.0007 (J)	<0.005		<0.005

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/6/2021 8:36 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)
6/6/2016						<0.005	0.00061 (J)		
6/7/2016					<0.005			<0.005	0.0056
7/27/2016					<0.005	<0.005	0.0004 (J)	<0.005	
7/28/2016									0.0032 (J)
9/16/2016					<0.005		0.0008 (J)		
9/19/2016						<0.005		<0.005	0.0047 (J)
11/2/2016								<0.005	
11/3/2016					<0.005	<0.005	<0.005		0.013
1/11/2017					<0.005	<0.005	<0.005		
1/13/2017								<0.005	0.011
3/1/2017						<0.005	<0.005		
3/2/2017					<0.005				
3/6/2017								<0.005	0.011
4/26/2017						<0.005	<0.005	<0.005	0.009 (J)
5/2/2017					<0.005				
6/28/2017						<0.005	<0.005		
6/29/2017					<0.005			<0.005	0.0093 (J)
3/28/2018					<0.005	<0.005	<0.005		
3/29/2018								<0.005	<0.005
6/5/2018									0.0041 (J)
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	0.0044 (J)
10/16/2018	0.032								
3/5/2019					<0.005		<0.005	<0.005	0.0039 (J)
3/6/2019						<0.005			
4/2/2019					<0.005				0.0039 (J)
4/3/2019						<0.005	<0.005	<0.005	
9/24/2019									0.0032 (J)
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	0.0081
3/24/2020					<0.005	<0.005	<0.005	<0.005	0.0061
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	0.0079
2/9/2021	0.03	0.001 (J)	0.00063 (J)	<0.005		<0.005	<0.005	<0.005	0.009
3/3/2021	0.018	0.00082 (J)	0.001 (J)		<0.005	<0.005	<0.005	<0.005	
3/4/2021				<0.005					0.0065

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/6/2021 8:36 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			0.00082 (J)	<0.005	<0.005				
6/7/2016						<0.005			
7/26/2016			0.0012 (J)	<0.005	<0.005				
7/28/2016						<0.005			
8/30/2016									0.0025 (J)
9/14/2016			0.0006 (J)	<0.005	<0.005				
9/20/2016						<0.005			
11/2/2016			<0.005	<0.005					
11/4/2016					<0.005				
11/8/2016						<0.005			
11/16/2016									0.002 (J)
1/12/2017				<0.005	<0.005				
1/13/2017			0.0029 (J)						
1/16/2017						<0.005			
2/27/2017									0.0021 (J)
3/6/2017			0.0006 (J)						
3/7/2017				<0.005	<0.005				
3/9/2017						<0.005			
5/1/2017			<0.005	<0.005					
5/2/2017					<0.005	<0.005			
5/10/2017									0.0021 (J)
6/27/2017				<0.005	<0.005				
6/29/2017			0.0005 (J)						
7/10/2017						<0.005			
7/11/2017									0.0014 (J)
10/11/2017	<0.005								
10/12/2017		<0.005					<0.005	0.0011 (J)	0.0017 (J)
11/20/2017	<0.005	<0.005					<0.005		
11/21/2017								0.0003 (J)	
1/10/2018		<0.005							
1/11/2018	<0.005							0.0003 (J)	
1/12/2018							<0.005		
2/19/2018		<0.005						<0.005	
2/20/2018	<0.005						<0.005		
3/29/2018			<0.005	<0.005	<0.005				
3/30/2018						<0.005			
4/3/2018	<0.005	<0.005					<0.005	<0.005	
4/4/2018									<0.005
6/6/2018				<0.005					
6/7/2018			0.00058 (J)		<0.005				
6/12/2018						<0.005			
6/27/2018								0.00069 (J)	
6/28/2018	<0.005	<0.005					<0.005		
8/7/2018	<0.005	<0.005					<0.005	<0.005	
9/20/2018									0.003 (J)
9/24/2018	<0.005	<0.005					<0.005	<0.005	
9/26/2018			<0.005	<0.005	<0.005				
9/27/2018						<0.005			
3/4/2019			<0.005	<0.005	<0.005				
3/6/2019						<0.005			
4/3/2019			0.00083 (J)	<0.005	<0.005				
4/4/2019						<0.005			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
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)

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/6/2021 8:36 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-11 (bg)	YGWA-2I (bg)	YGWA-30I (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
7/25/2016							0.0008 (J)		0.0312
7/26/2016					<0.005	<0.005			
8/30/2016			0.0073 (J)						
8/31/2016	<0.005			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				
9/19/2016									0.0275
11/1/2016						<0.005			0.0255
11/2/2016					<0.005				
11/4/2016							0.0025 (J)	<0.005	
11/14/2016			0.0115						
11/15/2016		0.0006 (J)							
11/16/2016	<0.005								
11/28/2016				0.0036 (J)					
12/15/2016								<0.005	
1/10/2017					<0.005				
1/11/2017						<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	<0.005		0.0106						
2/27/2017		0.0008 (J)							
3/2/2017						<0.005	0.0022 (J)		
3/3/2017								<0.005	
3/8/2017					<0.005				
4/26/2017					<0.005				0.0244
4/27/2017						<0.005	0.0018 (J)		
4/28/2017								<0.005	
5/8/2017			0.0099 (J)	0.0059 (J)					

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-11 (bg)	YGWA-21 (bg)	YGWA-30I (bg)
5/9/2017		<0.005							
5/10/2017	<0.005								
5/26/2017								<0.005	
6/27/2017						<0.005	0.0023 (J)		
6/28/2017								<0.005	
6/30/2017					<0.005				0.0233
7/11/2017	<0.005		0.0096 (J)						
7/13/2017		0.0005 (J)							
7/17/2017				0.0046 (J)					
10/10/2017			0.0036 (J)						
10/11/2017		0.0006 (J)							
10/12/2017	0.0006 (J)								
10/16/2017				0.0034 (J)					
2/19/2018				<0.005					
3/27/2018					<0.005		<0.005		0.023
3/28/2018								<0.005	
3/29/2018						<0.005			
4/2/2018			<0.005						
4/4/2018	<0.005	<0.005							
6/5/2018						<0.005			
6/6/2018							<0.005		
6/7/2018								<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	0.0034 (J)	<0.005							
10/1/2018					<0.005	<0.005	0.00059 (J)	<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	
3/28/2019						<0.005	0.00091 (J)		
3/29/2019					<0.005			<0.005	
4/1/2019									0.022
6/12/2019				0.003 (J)					
8/19/2019				0.0035 (J)					
8/20/2019			0.00092 (J)						
8/21/2019	0.0026 (J)								
9/24/2019						<0.005	0.0013 (J)	<0.005	
9/25/2019					<0.005				0.016
9/26/2019		<0.005							
10/8/2019			0.0014 (J)	0.0039 (J)					
10/9/2019	0.0023 (J)								
2/10/2020						<0.005	0.0016 (J)		
2/11/2020								<0.005	
2/12/2020					<0.005				0.014
3/17/2020			0.0017 (J)	0.003 (J)					
3/18/2020					<0.005		0.00087 (J)		
3/19/2020						<0.005		<0.005	0.014
3/25/2020	0.0016 (J)	<0.005							
8/26/2020				0.2 (O)					

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/6/2021 8:36 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-11 (bg)	YGWA-2I (bg)	YGWA-30I (bg)
8/27/2020			0.0011 (J)						
9/22/2020			0.00097 (J)	0.16 (O)					
9/23/2020						<0.005	0.0013 (J)	<0.005	
9/24/2020		<0.005							0.0064
9/25/2020	0.0018 (J)				<0.005				
2/9/2021	0.0017 (J)	<0.005							
2/10/2021					<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	
3/4/2021	0.0015 (J)	<0.005							

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
6/1/2016		<0.005				
6/2/2016	<0.005					
6/8/2016					<0.005	
7/25/2016		<0.005				
7/26/2016	<0.005					
8/1/2016					<0.005	
9/2/2016						0.0006 (J)
9/14/2016		<0.005				
9/15/2016	<0.005					
9/20/2016					<0.005	
11/1/2016	<0.005	<0.005				
11/8/2016					<0.005	
11/14/2016						<0.005
1/11/2017	<0.005	<0.005				
1/17/2017					<0.005	
2/28/2017						<0.005
3/1/2017		<0.005				
3/2/2017	<0.005					
3/8/2017					<0.005	
4/26/2017	<0.005	<0.005				
5/2/2017					<0.005	
5/9/2017						<0.005
6/28/2017	<0.005	<0.005				
7/7/2017					<0.005	
7/13/2017						<0.005
9/22/2017						<0.005
9/29/2017						<0.005
10/6/2017						<0.005
10/12/2017				0.0078 (J)		
11/21/2017				0.0097 (J)		
1/11/2018				0.0131		
2/20/2018				0.0162		
3/28/2018	<0.005	<0.005				
3/30/2018					<0.005	<0.005
4/3/2018				0.015		
6/7/2018	<0.005					
6/8/2018		<0.005				
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
10/1/2018	<0.005	<0.005				
10/16/2018			<0.005			
2/27/2019	<0.005	<0.005				
3/5/2019					<0.005	
3/6/2019						<0.005
4/1/2019	<0.005	<0.005				
4/4/2019					<0.005	<0.005
9/25/2019	<0.005	<0.005				
9/26/2019			<0.005		<0.005	0.00048 (J)

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/6/2021 8:36 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
2/11/2020		<0.005				
2/12/2020	<0.005					
3/19/2020	<0.005	<0.005				
3/25/2020			0.0059			0.00038 (J)
3/26/2020					<0.005	
9/23/2020	<0.005	<0.005			<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	<0.005	<0.005			0.00038 (J)
3/3/2021	<0.005	<0.005			<0.005	
3/4/2021			<0.005	0.003 (J)		<0.005

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/6/2021 8:36 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)
6/6/2016						0.0804 (U)	0.301 (U)		
6/7/2016					0.158 (U)			0.0191 (U)	0.347
7/27/2016					0.0354 (U)	0.206 (U)	0.196 (U)	0.541 (U)	
7/28/2016									0.815 (U)
9/16/2016				1.04			0.915 (U)		
9/19/2016						1.58		0.826 (U)	0.862 (U)
11/2/2016								0.791 (U)	
11/3/2016					0.314 (U)	0.342 (U)	0.928 (U)		0.797 (U)
1/11/2017					0.34 (U)	0.365 (U)	0.502 (U)		
1/13/2017								0.296 (U)	0.72 (U)
3/1/2017						0.395 (U)	0.202 (U)		
3/2/2017				0.746 (U)					
3/6/2017								0.518 (U)	0.518 (U)
4/26/2017						0.507 (U)	0.264 (U)	0.282 (U)	1.13 (U)
5/2/2017				0.111 (U)					
6/28/2017						0.892	0.636 (U)		
6/29/2017				0.576 (U)				1.12	0.841 (U)
3/28/2018				0.438 (U)		0.92 (U)	0.56 (U)		
3/29/2018								1.73	1.91
6/5/2018									1.39
6/6/2018								0.694 (U)	
6/7/2018						0.668 (U)			
6/11/2018				0.901 (U)			0.649 (U)		
9/25/2018				0.68 (U)		0.141 (U)	0.574 (U)	0.772 (U)	1.62
10/16/2018	0.384 (U)								
3/5/2019				0.272 (U)			0.474 (U)	0.84 (U)	0.985 (U)
3/6/2019						0.714 (U)			
4/2/2019				0.847 (U)					1.42
4/3/2019						0.385 (U)	0.429 (U)	1.01	
9/24/2019									1.35
9/25/2019				0.412 (U)				1.18 (U)	
9/26/2019						0.386 (U)	0.222 (U)		
2/11/2020				0.461 (U)		1.48	0.597 (U)		
2/12/2020								1.11 (U)	1.61
3/24/2020				0.534 (U)		0.632 (U)	0.262 (U)	1.88	1.24 (U)
3/25/2020	0.525 (U)								
9/23/2020		0.0813 (U)	1.2 (U)		0.466 (U)	0.887 (U)	0.43 (U)		
9/24/2020	0.547 (U)			0.668 (U)				0.611 (U)	1.8
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)	1.24
3/3/2021	0.377 (U)	0.563 (U)	1.07		0.59 (U)	0.565 (U)	0.352 (U)	0.133 (U)	1.2
3/4/2021				1.46					

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/6/2021 8:36 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			0.721	5.11	0.614				
6/7/2016						0.303 (U)			
7/26/2016			1.26	6.92	1.47				
7/28/2016						0.386 (U)			
8/30/2016									2.99
9/14/2016			0.901 (U)	3.96	1.27				
9/20/2016						1.47			
11/2/2016			1.09 (U)	4.53					
11/4/2016					0.434 (U)				
11/8/2016						0.22 (U)			
11/16/2016									4.01
1/12/2017				4.43	0.202 (U)				
1/13/2017			1.19						
1/16/2017						0.147 (U)			
2/27/2017									2.5
3/6/2017			0.669 (U)						
3/7/2017				4.8	0.0674 (U)				
3/9/2017						0.0892 (U)			
5/1/2017			0.803 (U)	4.16					
5/2/2017					0.444 (U)	0.149 (U)			
5/10/2017									2.55
6/27/2017				2.8	0.77 (U)				
6/29/2017			1.35						
7/10/2017						0.815 (U)			
7/11/2017									3.94
10/11/2017	0.586 (U)								
10/12/2017		1.49					1.24	0.641 (U)	3.57
11/20/2017	0.816 (U)	0.918 (U)					0.342 (U)		
11/21/2017								2.01	
1/10/2018		1.05							
1/11/2018	0.841 (U)							0.919 (U)	
1/12/2018							1.04		
2/19/2018		2.05						1.82	
2/20/2018	1.58						1.6 (U)		
3/29/2018			0.703 (U)	3.42	0.648 (U)				
3/30/2018						0.659 (U)			
4/3/2018	0.385 (U)	0.68 (U)					0.726 (U)	0.911 (U)	
4/4/2018									1.9
6/6/2018				3.99					
6/7/2018			0.628 (U)		0.745 (U)				
6/12/2018						1.03 (U)			
6/27/2018								0.429 (U)	
6/28/2018	0.283 (U)	1.28					1.06 (U)		
8/7/2018	0.332 (U)	1.16					1.21	0.579 (U)	
9/20/2018									1.94
9/24/2018	0.767 (U)	0.965 (U)					1.52	1.39	
9/26/2018			0.756 (U)	2.73	0.377 (U)				
9/27/2018						1.06 (U)			
3/4/2019			1.21 (U)	4.43	1 (U)				
3/6/2019						0.736 (U)			
4/3/2019			1.07 (U)	4.79	0.43 (U)				
4/4/2019						0.474 (U)			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/6/2021 8:36 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
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

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/6/2021 8:36 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-11 (bg)	YGWA-2I (bg)	YGWA-30I (bg)
6/1/2016						0.321 (U)	0.42		
6/2/2016					0.329 (U)				0.0652 (U)
7/25/2016							1.83		3.01
7/26/2016					1.51	0.707 (U)			
8/30/2016			1.09						
8/31/2016	0.926 (U)			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)				
9/19/2016									0.871 (U)
11/1/2016						0.805 (U)			0.307 (U)
11/2/2016					0.496 (U)				
11/4/2016							0.166 (U)	0.277 (U)	
11/15/2016		0.645 (U)							
11/16/2016	0.773 (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)			
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	0.661 (U)		0.504 (U)						
2/27/2017		0.244 (U)							
3/2/2017						0.251 (U)	0.504 (U)		
3/3/2017								0.448 (U)	
3/8/2017					0.0745 (U)				
4/26/2017					0.282 (U)				0.204 (U)
4/27/2017						1.08	0.593 (U)		
4/28/2017								0.548 (U)	
5/8/2017			0.455 (U)	0.187 (U)					
5/9/2017		0.519 (U)							
5/10/2017	1.27								
5/26/2017								0 (U)	
6/27/2017						1.02 (U)	0.657 (U)		
6/28/2017								0.608 (U)	
6/30/2017					0.994				0.738 (U)
7/11/2017	1.02		0.471 (U)						
7/13/2017		0.5 (U)							
7/17/2017				1.42					
10/10/2017			0.649 (U)						
10/11/2017		1.41							
10/12/2017	1.58								
10/16/2017				1.17					
2/19/2018				1.58 (D)					
3/27/2018					0.189 (U)		0.39 (U)		0.31 (U)
3/28/2018								0.412 (U)	
3/29/2018						0.503 (U)			
4/2/2018			0.512 (U)						
4/4/2018	1.71	0.442 (U)							
6/5/2018						0.771 (U)			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/6/2021 8:36 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-11 (bg)	YGWA-2I (bg)	YGWA-30I (bg)
6/6/2018							2.8		
6/7/2018								0.73 (U)	
6/8/2018					0.218 (U)				
6/11/2018									0.608 (U)
8/6/2018				0.196 (U)					
9/19/2018			0.789 (U)						
9/20/2018	2.8	1.14 (U)							
10/1/2018					1.24	0.783 (U)	1.06 (U)	0.756 (U)	
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)	
3/28/2019						1.13 (U)	0.125 (U)		
3/29/2019					0 (U)			0.224 (U)	
4/1/2019									1.02 (U)
8/19/2019				1.39					
8/20/2019			2.44						
8/21/2019	3.16								
9/24/2019						1.22 (U)	0.949 (U)	0.429 (U)	
9/25/2019					0.707 (U)				1.02 (U)
9/26/2019		1.16 (U)							
10/8/2019	3.65		1.72	1.32 (U)					
2/10/2020						1.41	1.25 (U)		
2/11/2020								0.817 (U)	
2/12/2020					1.07 (U)				0.301 (U)
3/17/2020			1.22 (U)	1 (U)					
3/18/2020					0.207 (U)		0.458 (U)		
3/19/2020						1.1		0.715 (U)	1
3/25/2020	3.04	1.2 (U)							
8/26/2020				1.75					
8/27/2020			1.26 (U)						
9/22/2020			1.06 (U)	0.688 (U)					
9/23/2020						1.35 (U)	0.00884 (U)	0.565 (U)	
9/24/2020		1.57 (U)							0.684 (U)
9/25/2020	4.75				0.603 (U)				
2/9/2021	6.38	0.137 (U)							
2/10/2021					0.353 (U)			1.04 (U)	
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)	
3/4/2021	6.02	0.579 (U)							

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/6/2021 8:36 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
6/1/2016		0.896				
6/2/2016	2.51					
6/8/2016					1.06	
7/25/2016		2.28				
7/26/2016	3.82					
8/1/2016					0.467 (U)	
9/2/2016						0.873 (U)
9/14/2016		0.821 (U)				
9/15/2016	4.24					
9/20/2016					0.853 (U)	
9/22/2016						0.667 (U)
9/29/2016						1.63
10/6/2016						0.641 (U)
11/1/2016	3.92	0.585 (U)				
11/8/2016					0.433 (U)	
11/14/2016						0.0451 (U)
1/11/2017	2.52	1.22				
1/17/2017					0.0759 (U)	
2/28/2017						1.34 (U)
3/1/2017		0.877 (U)				
3/2/2017	3.13					
3/8/2017					0.479 (U)	
4/26/2017	2.35	0.672 (U)				
5/2/2017					0.506 (U)	
5/9/2017						0.309 (U)
6/28/2017	2.6	1.07 (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		
3/28/2018	3	0.65 (U)				
3/30/2018					0.409 (U)	0.721 (U)
4/3/2018				1.47		
6/7/2018	2.79					
6/8/2018		1.89				
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)
10/1/2018	3.14	1.58				
10/16/2018			0.363 (U)			
2/27/2019	3.79	3.67				
3/5/2019					0.837 (U)	
3/6/2019						0.919 (U)
4/1/2019	4.33	2.28				
4/4/2019						1.05 (U)
4/9/2019					0.502 (U)	
9/25/2019	4.2	1.6				

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/6/2021 8:36 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
9/26/2019					0.964 (U)	0.979 (U)
2/11/2020	3.87	1.85				
3/19/2020	3.96	2.2				
3/25/2020			0.197 (U)			1.22 (U)
3/26/2020					0.511 (U)	
9/23/2020	4.14	1.14 (U)			0.786 (U)	
9/24/2020			1.07 (U)			
9/25/2020				1.68 (U)		
10/7/2020						1.58
2/9/2021				1.52	0.678 (U)	
2/10/2021	3.65	2.46	0.546 (U)			0.466 (U)
3/3/2021	3.58	2.03			0.415 (U)	
3/4/2021			0.397 (U)	1.49		0.0671 (U)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)
6/6/2016						<0.1	<0.1		
6/7/2016					<0.1			<0.1	<0.1
7/27/2016					<0.1	<0.1	<0.1	<0.1	
7/28/2016									0.02 (J)
9/16/2016				<0.1			<0.1		
9/19/2016						<0.1		<0.1	0.02 (J)
11/2/2016								<0.1	
11/3/2016				<0.1	<0.1	<0.1	<0.1		<0.1
1/11/2017				<0.1	<0.1	<0.1			
1/13/2017								<0.1	<0.1
3/1/2017						<0.1	<0.1		
3/2/2017				<0.1					
3/6/2017								<0.1	<0.1
4/26/2017						<0.1	<0.1	<0.1	0.04 (J)
5/2/2017				<0.1					
6/28/2017						<0.1	<0.1		
6/29/2017				<0.1				<0.1	<0.1
10/3/2017									<0.1
10/4/2017				<0.1			<0.1	<0.1	
10/5/2017						<0.1			
3/28/2018				<0.1	<0.1	<0.1			
3/29/2018								<0.1	<0.1
6/5/2018									0.13 (J)
6/6/2018								<0.1	
6/7/2018						<0.1			
6/11/2018				<0.1			<0.1		
9/25/2018				<0.1	<0.1	<0.1	<0.1	<0.1	0 (J)
10/16/2018	<0.1								
3/5/2019				<0.1			<0.1	<0.1	0.32
3/6/2019						<0.1			
4/2/2019				<0.1					0.12 (J)
4/3/2019						<0.1	<0.1	<0.1	
9/24/2019									0.15 (J)
9/25/2019				<0.1				<0.1	
9/26/2019	<0.1					<0.1	<0.1		
2/11/2020				<0.1	<0.1	<0.1			
2/12/2020								<0.1	0.1 (J)
3/24/2020				<0.1	<0.1	<0.1	<0.1	<0.1	0.081 (J)
3/25/2020	<0.1								
9/23/2020		<0.1	<0.1		<0.1	<0.1	<0.1		
9/24/2020	<0.1			<0.1				<0.1	0.079 (J)
2/9/2021	<0.1	<0.1	0.14	<0.1		<0.1	<0.1	<0.1	0.092 (J)
3/3/2021	<0.1	<0.1	0.14		<0.1	<0.1	<0.1	<0.1	
3/4/2021				<0.1					0.091 (J)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (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)
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			
2/27/2017									0.06 (J)
3/6/2017			<0.1						
3/7/2017				<0.1	<0.1				
3/9/2017						<0.1			
5/1/2017			<0.1	<0.1					
5/2/2017					<0.1	<0.1			
5/10/2017									<0.1
6/27/2017				<0.1	<0.1				
6/29/2017			<0.1						
7/10/2017						<0.1			
7/11/2017									<0.1
10/3/2017				<0.1	<0.1				
10/5/2017			<0.1						
10/11/2017	<0.1					<0.1			
10/12/2017		<0.1					<0.1	<0.1	<0.1
11/20/2017	<0.1	<0.1					0.2 (J)		
11/21/2017								<0.1	
1/10/2018		<0.1							
1/11/2018	<0.1							<0.1	
1/12/2018							0.21 (J)		
2/19/2018		<0.1						<0.1	
2/20/2018	0.23						<0.1		
3/29/2018			<0.1	<0.1	<0.1				
3/30/2018						<0.1			
4/3/2018	<0.1	<0.1					0.41	<0.1	
4/4/2018									<0.1
6/6/2018				0.15 (J)					
6/7/2018			<0.1		<0.1				
6/12/2018						<0.1			
6/27/2018								<0.1	
6/28/2018	<0.1	<0.1					0.43		
8/7/2018	0.048 (J)	<0.1					<0.1	0.11 (J)	
9/20/2018									0.041 (J)
9/24/2018	<0.1	<0.1					0.034 (J)	<0.1	
9/26/2018			<0.1	<0.1	<0.1				
9/27/2018						<0.1			
3/4/2019			<0.1	0.19 (J)	<0.1				
3/6/2019						<0.1			

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/26/2019		<0.1							
3/27/2019	<0.1						0.24 (J)		<0.1
3/28/2019								0.1 (J)	
4/3/2019			<0.1	0.047 (J)	<0.1				
4/4/2019						0.049 (J)			
8/21/2019	<0.1	<0.1							
8/22/2019							<0.1	<0.1	<0.1
9/24/2019				0.05 (J)	<0.1				
9/25/2019			<0.1						
9/27/2019						0.12 (J)			
10/9/2019	<0.1	<0.1					<0.1	<0.1	<0.1
2/12/2020	<0.1	<0.1	<0.1	<0.1	<0.1				
3/24/2020		<0.1		<0.1	<0.1				
3/25/2020	<0.1		<0.1				<0.1	<0.1	<0.1
3/26/2020						<0.1			
9/22/2020			<0.1	0.056 (J)	<0.1				
9/24/2020	<0.1	<0.1				<0.1			<0.1
9/25/2020							<0.1	<0.1	
2/8/2021				0.055 (J)	<0.1				
2/9/2021			<0.1			<0.1	<0.1		
2/10/2021	<0.1	<0.1						<0.1	<0.1
3/2/2021				<0.1	<0.1				
3/3/2021			<0.1						
3/4/2021	<0.1	<0.1				<0.1	<0.1	<0.1	<0.1

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-11 (bg)	YGWA-21 (bg)	YGWA-30I (bg)
3/29/2018						<0.1			
4/2/2018			<0.1						
4/4/2018	<0.1	<0.1							
6/5/2018						0.055 (J)			
6/6/2018							<0.1		
6/7/2018								0.11 (J)	
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	<0.1							
10/1/2018					<0.1	<0.1	<0.1	<0.1	
10/2/2018									<0.1
2/25/2019				0.14 (J)					
2/26/2019					<0.1				<0.1
2/27/2019						0.052 (J)	<0.1	0.12 (J)	
3/27/2019			0.081 (J)						
3/28/2019	0.078 (J)	<0.1				0.036 (J)	<0.1		
3/29/2019					<0.1			0.13 (J)	
4/1/2019									<0.1
6/12/2019				0.12 (J)					
8/19/2019				<0.1					
8/20/2019			<0.1						
8/21/2019	0.062 (J)								
9/24/2019						0.063 (J)	<0.1	0.081 (J)	
9/25/2019					<0.1				<0.1
9/26/2019		0.09 (J)							
10/8/2019			0.034 (J)	0.052 (J)					
10/9/2019	<0.1								
2/10/2020						0.061 (J)	<0.1		
2/11/2020								0.075 (J)	
2/12/2020					<0.1				<0.1
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
3/25/2020	0.073 (J)	<0.1							
8/26/2020				0.068 (J)					
8/27/2020			<0.1						
9/22/2020			<0.1	0.058 (J)					
9/23/2020						0.058 (J)	<0.1	0.08 (J)	
9/24/2020		<0.1							<0.1
9/25/2020	<0.1				<0.1				
2/9/2021	0.058 (J)	<0.1							
2/10/2021					<0.1			0.094 (J)	
2/11/2021									<0.1
2/12/2021						0.068 (J)	<0.1		
3/1/2021			<0.1						<0.1
3/2/2021				0.073 (J)	<0.1				
3/3/2021						0.078 (J)	<0.1	0.085 (J)	
3/4/2021	0.063 (J)	<0.1							

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
6/1/2016		0.15 (J)				
6/2/2016	0.62					
6/8/2016					<0.1	
7/25/2016		0.14 (J)				
7/26/2016	0.49					
8/1/2016					<0.1	
9/2/2016						0.05 (J)
9/14/2016		0.18 (J)				
9/15/2016	0.54					
9/20/2016					<0.1	
11/1/2016	0.68	<0.1				
11/8/2016					<0.1	
11/14/2016						0.18 (J)
1/11/2017	0.49	0.09 (J)				
1/17/2017					<0.1	
2/28/2017						0.09 (J)
3/1/2017		<0.1				
3/2/2017	0.48					
3/8/2017					<0.1	
4/26/2017	0.48	0.08 (J)				
5/2/2017					<0.1	
5/9/2017						0.009 (J)
6/28/2017	0.47	0.12 (J)				
7/7/2017					<0.1	
7/13/2017						<0.1
9/22/2017						0.09 (J)
9/29/2017						<0.1
10/4/2017	<0.1	<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		
3/28/2018	0.56	<0.1				
3/30/2018					<0.1	<0.1
4/3/2018				0.31		
6/7/2018	0.48					
6/8/2018		0.2 (J)				
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
10/1/2018	0.44	<0.1				
10/16/2018			<0.1			
2/27/2019	0.53	0.13 (J)				
3/5/2019					<0.1	
3/6/2019						<0.1
4/1/2019	0.45	0.1 (J)				

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/6/2021 8:36 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
4/4/2019					0.033 (J)	0.043 (J)
9/25/2019	0.46	0.1 (J)				
9/26/2019			<0.1		0.098 (J)	0.094 (J)
2/11/2020		0.094 (J)				
2/12/2020	0.4					
3/19/2020	0.51	0.11 (J)				
3/25/2020			<0.1			<0.1
3/26/2020					<0.1	
9/23/2020	0.47	0.098 (J)			<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	0.43	<0.1	<0.1			<0.1
3/3/2021	0.44	0.1			<0.1	
3/4/2021			<0.1	<0.1		<0.1

Time Series

Constituent: Lead (mg/L) Analysis Run 5/6/2021 8:36 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)
6/6/2016						<0.001	<0.001		
6/7/2016					<0.001			<0.001	<0.001
7/27/2016					<0.001	<0.001	<0.001	<0.001	
7/28/2016									<0.001
9/16/2016					<0.001		<0.001		
9/19/2016						<0.001		<0.001	<0.001
11/2/2016								0.0013 (J)	
11/3/2016					<0.001	<0.001	<0.001		<0.001
1/11/2017					<0.001	<0.001	<0.001		
1/13/2017								<0.001	<0.001
3/1/2017						<0.001	<0.001		
3/2/2017					8E-05 (J)				
3/6/2017								<0.001	<0.001
4/26/2017						<0.001	<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	<0.001
3/28/2018					<0.001	<0.001	<0.001		
3/29/2018								<0.001	<0.001
3/5/2019					<0.001		<0.001	<0.001	<0.001
3/6/2019						<0.001			
4/2/2019					<0.001				<0.001
4/3/2019						<0.001	<0.001	<0.001	
9/24/2019									<0.001
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	<0.001
3/24/2020					6.4E-05 (J)	7.1E-05 (J)	5.4E-05 (J)	0.00011 (J)	<0.001
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)	4.6E-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)	<0.001
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)					<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 5/6/2021 8:36 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.001	<0.001	<0.001				
6/7/2016						0.00044 (J)			
7/26/2016			<0.001	<0.001	<0.001				
7/28/2016						<0.001			
8/30/2016									<0.001
9/14/2016			<0.001	<0.001	<0.001				
9/20/2016						<0.001			
11/2/2016			<0.001	<0.001					
11/4/2016					<0.001				
11/8/2016						<0.001			
11/16/2016									0.0002 (J)
1/12/2017				<0.001	<0.001				
1/13/2017			<0.001						
1/16/2017						<0.001			
2/27/2017									<0.001
3/6/2017			<0.001						
3/7/2017				0.0001 (J)	7E-05 (J)				
3/9/2017						<0.001			
5/1/2017			<0.001	<0.001					
5/2/2017					<0.001	<0.001			
5/10/2017									9E-05 (J)
6/27/2017				<0.001	<0.001				
6/29/2017			<0.001						
7/10/2017						<0.001			
7/11/2017									<0.001
10/11/2017	0.0001 (J)								
10/12/2017		9E-05 (J)					0.0001 (J)	<0.001	<0.001
11/20/2017	<0.001	<0.001					0.0001 (J)		
11/21/2017								<0.001	
1/10/2018		<0.001							
1/11/2018	0.0002 (J)							7E-05 (J)	
1/12/2018							0.0001 (J)		
2/19/2018		<0.001						<0.001	
2/20/2018	<0.001						<0.001		
3/29/2018			<0.001	<0.001	<0.001				
3/30/2018						<0.001			
4/3/2018	<0.001	<0.001					<0.001	<0.001	
4/4/2018									<0.001
6/27/2018								0.0011 (J)	
6/28/2018	<0.001	<0.001					<0.001		
8/7/2018	<0.001	<0.001					<0.001	<0.001	
9/20/2018									<0.001
9/24/2018	<0.001	<0.001					<0.001	<0.001	
3/4/2019			<0.001	<0.001	<0.001				
3/6/2019						<0.001			
4/3/2019			<0.001	<0.001	<0.001				
4/4/2019						<0.001			
8/21/2019	<0.001	<0.001							
8/22/2019							<0.001	6.7E-05 (J)	<0.001
9/24/2019				<0.001	9E-05 (J)				
9/25/2019			<0.001						
9/27/2019						0.00013 (J)			

Time Series

Constituent: Lead (mg/L) Analysis Run 5/6/2021 8:36 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
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

Time Series

Constituent: Lead (mg/L) Analysis Run 5/6/2021 8:36 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-11 (bg)	YGWA-21 (bg)	YGWA-30I (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
7/25/2016							<0.001		<0.001
7/26/2016					<0.001	<0.001			
8/30/2016			<0.001						
8/31/2016	<0.001			<0.001					
9/1/2016		<0.001							
9/13/2016						0.0001 (J)	<0.001		
9/14/2016								<0.001	
9/15/2016					<0.001				
9/19/2016									<0.001
11/1/2016						<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							
11/16/2016	<0.001								
11/28/2016				<0.001					
12/15/2016								<0.001	
1/10/2017					<0.001				
1/11/2017						<0.001			
1/16/2017							<0.001	<0.001	<0.001
2/21/2017									<0.001
2/22/2017				<0.001					
2/24/2017	<0.001		<0.001						
2/27/2017		<0.001							
3/2/2017						0.0001 (J)	<0.001		
3/3/2017								<0.001	
3/8/2017					0.0001 (J)				
4/26/2017					<0.001				<0.001
4/27/2017						<0.001	<0.001		
4/28/2017								<0.001	
5/8/2017			<0.001	<0.001					

Time Series

Constituent: Lead (mg/L) Analysis Run 5/6/2021 8:36 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-11 (bg)	YGWA-21 (bg)	YGWA-30I (bg)
5/9/2017		<0.001							
5/10/2017	8E-05 (J)								
5/26/2017								<0.001	
6/27/2017						<0.001	<0.001		
6/28/2017								<0.001	
6/30/2017					<0.001				<0.001
7/11/2017	<0.001		<0.001						
7/13/2017		<0.001							
7/17/2017				<0.001					
10/10/2017			<0.001						
10/11/2017		<0.001							
10/12/2017	<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	
3/29/2018						<0.001			
4/2/2018			<0.001						
4/4/2018	<0.001	<0.001							
8/6/2018				<0.001					
9/19/2018			<0.001						
9/20/2018	<0.001	<0.001							
2/25/2019				<0.001					
2/26/2019					<0.001				<0.001
2/27/2019						<0.001	<0.001	<0.001	
6/12/2019				<0.001					
8/19/2019				<0.001					
8/20/2019			<0.001						
8/21/2019	<0.001								
9/26/2019		<0.001							
10/8/2019				<0.001					
10/9/2019	<0.001								
2/10/2020						4.9E-05 (J)	<0.001		
2/11/2020								<0.001	
2/12/2020					<0.001				<0.001
3/17/2020				<0.001					
3/18/2020					<0.001		<0.001		
3/19/2020						0.00012 (J)		<0.001	<0.001
3/25/2020	7.5E-05 (J)	5.9E-05 (J)							
8/26/2020				<0.001					
8/27/2020			<0.001						
9/22/2020			<0.001	0.0001 (J)					
9/23/2020						<0.001	0.00021 (J)	0.0011 (J)	
9/24/2020		<0.001							<0.001
9/25/2020	<0.001				<0.001				
2/9/2021	<0.001	<0.001							
2/10/2021					4.8E-05 (J)			0.00015 (J)	
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	

Time Series

Constituent: Lead (mg/L) Analysis Run 5/6/2021 8:36 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-11 (bg)	YGWA-2I (bg)	YGWA-30I (bg)
3/4/2021	<0.001	<0.001							

Time Series

Constituent: Lead (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
6/1/2016		<0.001				
6/2/2016	0.00056 (J)					
6/8/2016					<0.001	
7/25/2016		<0.001				
7/26/2016	0.0001 (J)					
8/1/2016					<0.001	
9/2/2016						0.0017 (J)
9/14/2016		<0.001				
9/15/2016	0.0002 (J)					
9/20/2016					<0.001	
11/1/2016	<0.001	<0.001				
11/8/2016					<0.001	
11/14/2016						0.0002 (J)
1/11/2017	<0.001	<0.001				
1/17/2017					<0.001	
2/28/2017						0.0003 (J)
3/1/2017		<0.001				
3/2/2017	0.0002 (J)					
3/8/2017					<0.001	
4/26/2017	<0.001	<0.001				
5/2/2017					<0.001	
5/9/2017						0.0004 (J)
6/28/2017	<0.001	<0.001				
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		
3/28/2018	<0.001	<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		
2/27/2019	<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		<0.001	0.00023 (J)
2/11/2020		<0.001				
2/12/2020	<0.001					
3/19/2020	0.00017 (J)	<0.001				
3/25/2020			<0.001			0.0001 (J)
3/26/2020					5.3E-05 (J)	
9/23/2020	<0.001	0.00015 (J)			<0.001	
9/24/2020			<0.001			
9/25/2020				8.5E-05 (J)		
10/7/2020						0.00077 (J)

Time Series

Constituent: Lead (mg/L) Analysis Run 5/6/2021 8:36 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
2/9/2021				8.8E-05 (J)	0.00036 (J)	
2/10/2021	<0.001	<0.001	8.7E-05 (J)			0.00051 (J)
3/3/2021	<0.001	<0.001			<0.001	
3/4/2021			0.00015 (J)	<0.001		0.00025 (J)

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/6/2021 8:36 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)
6/6/2016						0.0088	0.015		
6/7/2016					<0.03			<0.03	0.0055
7/27/2016					<0.03	0.0087 (J)	0.0049 (J)	<0.03	
7/28/2016									0.0045 (J)
9/16/2016					<0.03		0.0031 (J)		
9/19/2016						0.0043 (J)		<0.03	0.0054 (J)
11/2/2016								<0.03	
11/3/2016					<0.03	<0.03	0.0021 (J)		<0.03
1/11/2017					0.0035 (J)	0.0052 (J)	0.0025 (J)		
1/13/2017								<0.03	0.0062 (J)
3/1/2017						0.0053 (J)	0.0029 (J)		
3/2/2017					<0.03				
3/6/2017								<0.03	0.0059 (J)
4/26/2017						0.0041 (J)	0.0019 (J)	<0.03	0.0054 (J)
5/2/2017					<0.03				
6/28/2017						0.0039 (J)	0.0016 (J)		
6/29/2017					<0.03			<0.03	0.0047 (J)
3/28/2018					<0.03	0.0041 (J)	0.0024 (J)		
3/29/2018								<0.03	0.0062 (J)
6/5/2018									0.0061 (J)
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	0.0062 (J)
10/16/2018	0.0052 (J)								
3/5/2019					<0.03		0.0031 (J)	<0.03	0.0053 (J)
3/6/2019						0.0033 (J)			
4/2/2019					<0.03				0.0051 (J)
4/3/2019						0.0035 (J)	0.0028 (J)	<0.03	
9/24/2019									0.0068 (J)
9/25/2019					<0.03			<0.03	
9/26/2019	<0.03					0.0032 (J)	0.0029 (J)		
2/11/2020					<0.03	0.0033 (J)	0.005 (J)		
2/12/2020								<0.03	0.0065 (J)
3/24/2020					0.0034 (J)	0.0033 (J)	0.0035 (J)	<0.03	0.0064 (J)
3/25/2020	0.0011 (J)								
9/23/2020		<0.03	0.03 (J)		<0.03	0.003 (J)	0.0022 (J)		
9/24/2020	0.011 (J)			0.013 (J)				<0.03	0.0069 (J)
2/9/2021	0.021 (J)	<0.03	0.018 (J)	0.016 (J)		0.0031 (J)	0.0019 (J)	<0.03	0.006 (J)
3/3/2021	0.022 (J)	<0.03	0.02 (J)		<0.03	0.0034 (J)	0.0021 (J)	<0.03	
3/4/2021				0.016 (J)					0.0062 (J)

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/6/2021 8:36 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			0.013	0.0049 (J)	<0.03				
6/7/2016						<0.03			
7/26/2016			0.0123 (J)	0.0063 (J)	0.0027 (J)				
7/28/2016						0.0019 (J)			
8/30/2016									0.0257 (J)
9/14/2016			0.0137 (J)	0.0058 (J)	0.0029 (J)				
9/20/2016						0.0021 (J)			
11/2/2016			0.0136 (J)	0.0053 (J)					
11/4/2016					<0.03				
11/8/2016						0.0024 (J)			
11/16/2016									0.0221 (J)
1/12/2017				0.0054 (J)	0.0032 (J)				
1/13/2017			0.0121 (J)						
1/16/2017						0.0022 (J)			
2/27/2017									0.0208 (J)
3/6/2017			0.0143 (J)						
3/7/2017				0.0056 (J)	0.0035 (J)				
3/9/2017						0.0025 (J)			
5/1/2017			0.0132 (J)	0.0031 (J)					
5/2/2017					0.0031 (J)	0.0019 (J)			
5/10/2017									0.0316 (J)
6/27/2017				0.0018 (J)	0.0029 (J)				
6/29/2017			0.0145 (J)						
7/10/2017						0.0018 (J)			
7/11/2017									0.0281 (J)
10/11/2017	0.0018 (J)								
10/12/2017		<0.03					0.0095 (J)	0.004 (J)	0.0331 (J)
11/20/2017	0.0018 (J)	<0.03					0.0083 (J)		
11/21/2017								0.0043 (J)	
1/10/2018		<0.03							
1/11/2018	0.0019 (J)							0.0044 (J)	
1/12/2018							0.0089 (J)		
2/19/2018		<0.03						<0.03	
2/20/2018	<0.03						0.0082 (J)		
3/29/2018			0.014 (J)	0.0058 (J)	0.0034 (J)				
3/30/2018						0.0039 (J)			
4/3/2018	0.0022 (J)	<0.03					0.0097 (J)	0.0047 (J)	
4/4/2018									0.037 (J)
6/6/2018				0.0068 (J)					
6/7/2018			0.013 (J)		0.0032 (J)				
6/12/2018						0.0017 (J)			
6/27/2018								0.0042 (J)	
6/28/2018	0.0026 (J)	<0.03					0.0093 (J)		
8/7/2018	0.0024 (J)	<0.03					0.0092 (J)	0.0038 (J)	
9/20/2018									0.049 (J)
9/24/2018	0.0022 (J)	<0.03					0.0083 (J)	0.0037 (J)	
9/26/2018			0.014 (J)	0.0065 (J)	0.0032 (J)				
9/27/2018						0.0017 (J)			
3/4/2019			0.015 (J)	0.0065 (J)	0.0032 (J)				
3/6/2019						0.0025 (J)			
4/3/2019			0.014 (J)	0.007 (J)	0.0035 (J)				
4/4/2019						0.0018 (J)			

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
8/21/2019	0.0035 (J)	<0.03							
8/22/2019							0.0082 (J)	0.0035 (J)	0.047
9/24/2019				0.0065 (J)	0.0031 (J)				
9/25/2019			0.014 (J)						
9/27/2019						0.0017 (J)			
10/9/2019	0.0036 (J)	<0.03					0.0081 (J)	0.0032 (J)	0.037
2/12/2020	0.0041 (J)	<0.03	0.011 (J)	0.0066 (J)	0.0032 (J)				
3/24/2020		<0.03		0.0064 (J)	0.0033 (J)				
3/25/2020	0.0049 (J)		0.014 (J)				0.0081 (J)	0.0029 (J)	0.045
3/26/2020						0.0021 (J)			
9/22/2020			0.013 (J)	0.0066 (J)	0.0034 (J)				
9/24/2020	0.0054 (J)	<0.03				0.0035 (J)			0.05
9/25/2020							0.0069 (J)	0.0025 (J)	
2/8/2021				0.0063 (J)	0.0032 (J)				
2/9/2021			0.011 (J)			0.0026 (J)	0.0067 (J)		
2/10/2021	0.0071 (J)	<0.03						0.0021 (J)	0.058
3/2/2021				0.0018 (J)	0.0031 (J)				
3/3/2021			0.012 (J)						
3/4/2021	0.0084 (J)	<0.03				0.0026 (J)	0.0067 (J)	0.0021 (J)	0.059

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/6/2021 8:36 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-11 (bg)	YGWA-2I (bg)	YGWA-30I (bg)
6/1/2016						0.015	<0.03		
6/2/2016					<0.03				<0.03
7/25/2016							0.002 (J)		<0.03
7/26/2016					<0.03	0.0135 (J)			
8/30/2016			0.0061 (J)						
8/31/2016	0.006 (J)			<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				
9/19/2016									<0.03
11/1/2016						0.0163 (J)			<0.03
11/2/2016					<0.03				
11/4/2016							<0.03	<0.03	
11/14/2016			0.0064 (J)						
11/15/2016		0.0044 (J)							
11/16/2016	0.0095 (J)								
11/28/2016				<0.03					
12/15/2016								0.0026 (J)	
1/10/2017					<0.03				
1/11/2017						0.0166 (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	0.0104 (J)		0.0049 (J)						
2/27/2017		0.0036 (J)							
3/2/2017						0.0159 (J)	0.0025 (J)		
3/3/2017								0.0013 (J)	
3/8/2017					<0.03				
4/26/2017					<0.03				<0.03
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)							
5/10/2017	0.0123 (J)								
5/26/2017								0.0038 (J)	
6/27/2017						0.0094 (J)	0.0024 (J)		
6/28/2017								0.0026 (J)	
6/30/2017					<0.03				<0.03
7/11/2017	0.0131 (J)		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)							
10/12/2017	0.013 (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)	
3/29/2018						0.0078 (J)			
4/2/2018			0.0045 (J)						
4/4/2018	0.016 (J)	0.0039 (J)							

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-11 (bg)	YGWA-2I (bg)	YGWA-30I (bg)
6/5/2018						0.0079 (J)			
6/6/2018							0.0024 (J)		
6/7/2018								0.0017 (J)	
6/8/2018					<0.03				
6/11/2018									0.0012 (J)
8/6/2018				<0.03					
9/19/2018			0.0043 (J)						
9/20/2018	0.019 (J)	0.0036 (J)							
10/1/2018					<0.03	0.0053 (J)	0.0023 (J)	<0.03	
10/2/2018									<0.03
2/26/2019					<0.03				0.0011 (J)
2/27/2019						0.0093 (J)	0.0023 (J)	0.0011 (J)	
3/28/2019						0.013 (J)	0.0022 (J)		
3/29/2019					<0.03			0.0016 (J)	
4/1/2019									0.001 (J)
8/19/2019				0.0019 (J)					
8/20/2019			0.0036 (J)						
8/21/2019	0.015 (J)								
9/24/2019						0.0046 (J)	0.0023 (J)	0.0011 (J)	
9/25/2019					<0.03				0.0011 (J)
9/26/2019		0.0036 (J)							
10/8/2019			0.0036 (J)	0.0015 (J)					
10/9/2019	0.018 (J)								
2/10/2020						0.011 (J)	0.0023 (J)		
2/11/2020								0.0012 (J)	
2/12/2020					<0.03				0.0013 (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)
3/25/2020	0.016 (J)	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)	
9/24/2020		0.0037 (J)							0.0011 (J)
9/25/2020	0.018 (J)				<0.03				
2/9/2021	0.024 (J)	0.0038 (J)							
2/10/2021					<0.03			0.0039 (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)	
3/4/2021	0.025 (J)	0.0035 (J)							

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
6/1/2016		0.01				
6/2/2016	0.018					
6/8/2016					<0.03	
7/25/2016		0.0132 (J)				
7/26/2016	0.0221 (J)					
8/1/2016					<0.03	
9/2/2016						0.0029 (J)
9/14/2016		0.012 (J)				
9/15/2016	0.0197 (J)					
9/20/2016					<0.03	
11/1/2016	0.0194 (J)	0.0115 (J)				
11/8/2016					<0.03	
11/14/2016						0.0044 (J)
1/11/2017	0.0177 (J)	0.0085 (J)				
1/17/2017					<0.03	
2/28/2017						0.0038 (J)
3/1/2017		0.0114 (J)				
3/2/2017	0.0185 (J)					
3/8/2017					<0.03	
4/26/2017	0.0183 (J)	0.0092 (J)				
5/2/2017					<0.03	
5/9/2017						0.0057 (J)
6/28/2017	0.0173 (J)	0.0085 (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		
3/28/2018	0.02 (J)	0.013 (J)				
3/30/2018					<0.03	0.0061 (J)
4/3/2018				0.027 (J)		
6/7/2018	0.02 (J)					
6/8/2018		0.012 (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)
10/1/2018	0.02 (J)	0.011 (J)				
10/16/2018			0.0011 (J)			
2/27/2019	0.021 (J)	0.014 (J)				
3/5/2019					<0.03	
3/6/2019						0.0057 (J)
4/1/2019	0.021 (J)	0.013 (J)				
4/4/2019					<0.03	0.0058 (J)
9/25/2019	0.02 (J)	0.01 (J)				
9/26/2019			<0.03		<0.03	0.0041 (J)

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/6/2021 8:36 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
2/11/2020		0.013 (J)				
2/12/2020	0.019 (J)					
3/19/2020	0.023 (J)	0.014 (J)				
3/25/2020			0.011 (J)			0.0032 (J)
3/26/2020					<0.03	
9/23/2020	0.023 (J)	0.013 (J)			<0.03	
9/24/2020			0.001 (J)			
9/25/2020				0.028 (J)		
10/7/2020						0.0014 (J)
2/9/2021				0.024 (J)	<0.03	
2/10/2021	0.023 (J)	0.015 (J)	0.0012 (J)			0.0011 (J)
3/3/2021	0.024 (J)	0.017 (J)			<0.03	
3/4/2021			0.0015 (J)	0.028 (J)		<0.03

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)
6/6/2016						<0.0002	<0.0002		
6/7/2016					9.5E-05 (J)			9.6E-05 (J)	9.6E-05 (J)
7/27/2016					<0.0002	<0.0002	<0.0002	<0.0002	
7/28/2016									<0.0002
9/16/2016					<0.0002		<0.0002		
9/19/2016						<0.0002		<0.0002	<0.0002
11/2/2016								<0.0002	
11/3/2016					<0.0002	<0.0002	<0.0002		<0.0002
1/11/2017					<0.0002	<0.0002	<0.0002		
1/13/2017								<0.0002	<0.0002
3/1/2017						<0.0002	<0.0002		
3/2/2017					<0.0002				
3/6/2017								<0.0002	<0.0002
4/26/2017						<0.0002	<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	<0.0002
3/28/2018					<0.0002	<0.0002	<0.0002		
3/29/2018								<0.0002	<0.0002
9/25/2018					<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
3/5/2019					<0.0002		<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	<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	<0.0002
3/3/2021	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
3/4/2021				<0.0002					<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (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
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			
2/27/2017									<0.0002
3/6/2017			<0.0002						
3/7/2017				<0.0002	<0.0002				
3/9/2017						<0.0002			
5/1/2017			<0.0002	<0.0002					
5/2/2017					<0.0002	<0.0002			
5/10/2017									<0.0002
6/27/2017				<0.0002	<0.0002				
6/29/2017			<0.0002						
7/10/2017						<0.0002			
7/11/2017									<0.0002
10/11/2017	<0.0002								
10/12/2017		<0.0002					<0.0002	<0.0002	<0.0002
11/20/2017	7E-05 (J)	8E-05 (J)					8E-05 (J)		
11/21/2017								6E-05 (J)	
1/10/2018		<0.0002							
1/11/2018	<0.0002							<0.0002	
1/12/2018							<0.0002		
2/19/2018		<0.0002						<0.0002	
2/20/2018	<0.0002						<0.0002		
3/29/2018			<0.0002	<0.0002	<0.0002				
3/30/2018						<0.0002			
4/3/2018	<0.0002	<0.0002					<0.0002	<0.0002	
4/4/2018									<0.0002
6/27/2018								<0.0002	
6/28/2018	<0.0002	3.6E-05 (J)					3.7E-05 (J)		
8/7/2018	<0.0002	<0.0002					<0.0002	<0.0002	
9/20/2018									4.8E-05 (J)
9/24/2018	<0.0002	<0.0002					<0.0002	<0.0002	
9/26/2018			<0.0002	<0.0002	<0.0002				
9/27/2018						<0.0002			
3/4/2019			<0.0002	<0.0002	<0.0002				
3/6/2019						<0.0002			
8/21/2019	<0.0002	<0.0002							
8/22/2019							<0.0002	<0.0002	<0.0002
2/12/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002				
2/8/2021				<0.0002	<0.0002				
2/9/2021			<0.0002			0.00015 (J)	<0.0002		

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/6/2021 8:36 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
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

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-11 (bg)	YGWA-2I (bg)	YGWA-30I (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
7/25/2016							<0.0002		<0.0002
7/26/2016					<0.0002	<0.0002			
8/30/2016			<0.0002						
8/31/2016	<0.0002			<0.0002					
9/1/2016		<0.0002							
9/13/2016						<0.0002	<0.0002		
9/14/2016								<0.0002	
9/15/2016					<0.0002				
9/19/2016									<0.0002
11/1/2016						<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							
11/16/2016	<0.0002								
11/28/2016				<0.0002					
12/15/2016								<0.0002	
1/10/2017					<0.0002				
1/11/2017						<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		<0.0002						
2/27/2017		<0.0002							
3/2/2017						<0.0002	<0.0002		
3/3/2017								<0.0002	
3/8/2017					<0.0002				
4/26/2017					<0.0002				<0.0002
4/27/2017						<0.0002	<0.0002		
4/28/2017								<0.0002	
5/8/2017			<0.0002	<0.0002					

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-11 (bg)	YGWA-21 (bg)	YGWA-30I (bg)
5/9/2017		<0.0002							
5/10/2017	<0.0002								
5/26/2017								<0.0002	
6/27/2017						<0.0002	<0.0002		
6/28/2017								<0.0002	
6/30/2017					<0.0002				<0.0002
7/11/2017	<0.0002		<0.0002						
7/13/2017		<0.0002							
7/17/2017				<0.0002					
10/10/2017			<0.0002						
10/11/2017		<0.0002							
10/12/2017	<0.0002								
10/16/2017				<0.0002					
2/19/2018				<0.0002					
3/27/2018					<0.0002		<0.0002		<0.0002
3/28/2018								<0.0002	
3/29/2018						<0.0002			
4/2/2018			<0.0002						
4/4/2018	<0.0002	<0.0002							
8/6/2018				<0.0002					
9/19/2018			5.3E-05 (J)						
9/20/2018	5.2E-05 (J)	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	
3/28/2019						4E-05 (J)	<0.0002		
3/29/2019					<0.0002			<0.0002	
4/1/2019									8.2E-05 (J)
6/12/2019				<0.0002					
8/19/2019				<0.0002					
8/20/2019			<0.0002						
8/21/2019	<0.0002								
9/24/2019						<0.0002	<0.0002	<0.0002	
9/25/2019					<0.0002				<0.0002
10/8/2019				<0.0002					
2/10/2020						<0.0002	<0.0002		
2/11/2020								<0.0002	
2/12/2020					<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	<0.0002	0.00014 (J)							
2/10/2021					<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	<0.0002							

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
6/1/2016		<0.0002				
6/2/2016	<0.0002					
6/8/2016					<0.0002	
7/25/2016		<0.0002				
7/26/2016	<0.0002					
8/1/2016					<0.0002	
9/2/2016						<0.0002
9/14/2016		<0.0002				
9/15/2016	<0.0002					
9/20/2016					<0.0002	
11/1/2016	<0.0002	<0.0002				
11/8/2016					<0.0002	
11/14/2016						<0.0002
1/11/2017	<0.0002	<0.0002				
1/17/2017					<0.0002	
2/28/2017						<0.0002
3/1/2017		<0.0002				
3/2/2017	<0.0002					
3/8/2017					<0.0002	
4/26/2017	<0.0002	<0.0002				
5/2/2017					<0.0002	
5/9/2017						<0.0002
6/28/2017	<0.0002	<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		
3/28/2018	<0.0002	<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
2/27/2019	6.2E-05 (J)	6.1E-05 (J)				
3/5/2019					<0.0002	
3/6/2019						<0.0002
4/1/2019	9.6E-05 (J)	8.4E-05 (J)				
9/25/2019	<0.0002	<0.0002				
2/11/2020		<0.0002				
2/12/2020	<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	<0.0002			<0.0002
3/3/2021					<0.0002	
3/4/2021			<0.0002	<0.0002		<0.0002

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)
6/6/2016						<0.01	<0.01		
6/7/2016					<0.01			<0.01	<0.01
7/27/2016					<0.01	<0.01	<0.01	<0.01	
7/28/2016									<0.01
9/16/2016				<0.01			<0.01		
9/19/2016						<0.01		<0.01	<0.01
11/2/2016								<0.01	
11/3/2016				<0.01	<0.01	<0.01	<0.01		<0.01
1/11/2017				<0.01	<0.01	<0.01	<0.01		
1/13/2017								<0.01	<0.01
3/1/2017						<0.01	<0.01		
3/2/2017				<0.01					
3/6/2017								<0.01	0.0007 (J)
4/26/2017						<0.01	<0.01	<0.01	0.0008 (J)
5/2/2017				<0.01					
6/28/2017						<0.01	<0.01		
6/29/2017				<0.01				<0.01	<0.01
3/28/2018				<0.01	<0.01	<0.01	<0.01		
3/29/2018								<0.01	<0.01
3/5/2019				<0.01			<0.01	<0.01	<0.01
3/6/2019						<0.01			
2/11/2020				<0.01	<0.01	<0.01	<0.01		
2/12/2020								<0.01	<0.01
3/24/2020				<0.01	<0.01	<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	<0.01
2/9/2021	0.0038 (J)	<0.01	0.0068 (J)	<0.01		<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					<0.01

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.01	0.0035 (J)	<0.01				
6/7/2016						<0.01			
7/26/2016			<0.01	0.0042 (J)	<0.01				
7/28/2016						<0.01			
8/30/2016									0.0019 (J)
9/14/2016			<0.01	0.0041 (J)	<0.01				
9/20/2016						<0.01			
11/2/2016			<0.01	0.0039 (J)					
11/4/2016					<0.01				
11/8/2016						<0.01			
11/16/2016									0.0027 (J)
1/12/2017				0.0041 (J)	<0.01				
1/13/2017			<0.01						
1/16/2017						<0.01			
2/27/2017									0.0031 (J)
3/6/2017			<0.01						
3/7/2017				0.0047 (J)	<0.01				
3/9/2017						<0.01			
5/1/2017			<0.01	0.0045 (J)					
5/2/2017					<0.01	<0.01			
5/10/2017									0.0017 (J)
6/27/2017				0.004 (J)	<0.01				
6/29/2017			<0.01						
7/10/2017						<0.01			
7/11/2017									0.0014 (J)
10/11/2017	0.0094 (J)								
10/12/2017		<0.01					<0.01	<0.01	<0.01
11/20/2017	0.0081 (J)	<0.01					<0.01		
11/21/2017								<0.01	
1/10/2018		<0.01							
1/11/2018	0.0074 (J)							<0.01	
1/12/2018							<0.01		
2/19/2018		<0.01						<0.01	
2/20/2018	<0.01						<0.01		
3/29/2018			<0.01	<0.01	<0.01				
3/30/2018						<0.01			
4/3/2018	0.006 (J)	<0.01					<0.01	<0.01	
4/4/2018									<0.01
6/27/2018								<0.01	
6/28/2018	0.005 (J)	<0.01					<0.01		
8/7/2018	0.0045 (J)	<0.01					<0.01	<0.01	
9/20/2018									<0.01
9/24/2018	0.0035 (J)	<0.01					<0.01	<0.01	
3/4/2019			<0.01	<0.01	<0.01				
3/6/2019						<0.01			
8/21/2019	0.0021 (J)	<0.01							
8/22/2019							<0.01	<0.01	<0.01
10/9/2019	0.0018 (J)	<0.01					<0.01	<0.01	<0.01
2/12/2020	0.0025 (J)	<0.01	<0.01	0.0011 (J)	<0.01				
3/24/2020		<0.01		0.0011 (J)	<0.01				
3/25/2020	0.002 (J)		<0.01				<0.01	<0.01	<0.01
3/26/2020						<0.01			

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/6/2021 8:36 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
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)

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-11 (bg)	YGWA-2I (bg)	YGWA-30I (bg)
6/1/2016						0.014 (J)	0.012 (J)		
6/2/2016					<0.01				<0.01
7/25/2016							0.0098 (J)		<0.01
7/26/2016					<0.01	0.0132			
8/30/2016			<0.01						
8/31/2016	0.0022 (J)			<0.01					
9/1/2016		<0.01							
9/13/2016						0.0127	0.01 (J)		
9/14/2016								0.0039 (J)	
9/15/2016					<0.01				
9/19/2016									<0.01
11/1/2016						0.0092 (J)			<0.01
11/2/2016					<0.01				
11/4/2016							0.01	0.0077 (J)	
11/14/2016			<0.01						
11/15/2016		<0.01							
11/16/2016	<0.01								
11/28/2016				<0.01					
12/15/2016								0.0066 (J)	
1/10/2017					<0.01				
1/11/2017						0.0093 (J)			
1/16/2017							0.0086 (J)	0.0056 (J)	<0.01
2/21/2017									<0.01
2/22/2017				<0.01					
2/24/2017	<0.01		<0.01						
2/27/2017		0.0007 (J)							
3/2/2017						0.0099 (J)	0.01		
3/3/2017								0.0049 (J)	
3/8/2017					<0.01				
4/26/2017					<0.01				<0.01
4/27/2017						0.0103	0.0101		
4/28/2017								0.004 (J)	
5/8/2017			<0.01	<0.01					
5/9/2017		<0.01							
5/10/2017	<0.01								
5/26/2017								0.0029 (J)	
6/27/2017						0.0097 (J)	0.0093 (J)		
6/28/2017								0.0036 (J)	
6/30/2017					<0.01				<0.01
7/11/2017	<0.01		<0.01						
7/13/2017		<0.01							
7/17/2017				<0.01					
10/10/2017			<0.01						
10/11/2017		<0.01							
10/12/2017	<0.01								
10/16/2017				<0.01					
2/19/2018				<0.01					
3/27/2018					<0.01		0.0074 (J)		<0.01
3/28/2018								0.0038 (J)	
3/29/2018						0.0076 (J)			
4/2/2018			<0.01						
4/4/2018	<0.01	<0.01							

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-11 (bg)	YGWA-21 (bg)	YGWA-30I (bg)
6/5/2018						0.0092 (J)			
6/6/2018							0.0073 (J)		
6/7/2018								0.004 (J)	
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	<0.01							
10/1/2018					<0.01	0.0085 (J)	0.0076 (J)	0.0042 (J)	
10/2/2018									<0.01
2/26/2019					<0.01				<0.01
2/27/2019						0.0087 (J)	0.0078 (J)	0.0041 (J)	
3/28/2019						0.0092 (J)	0.0082 (J)		
3/29/2019					<0.01			0.0041 (J)	
4/1/2019									<0.01
8/19/2019				<0.01					
8/20/2019			<0.01						
8/21/2019	0.0012 (J)								
9/24/2019						0.0072 (J)	0.0074 (J)	0.0054 (J)	
9/25/2019					<0.01				<0.01
10/8/2019			<0.01						
10/9/2019	0.0012 (J)								
2/10/2020						0.0087 (J)	0.0062 (J)		
2/11/2020								0.0057 (J)	
2/12/2020					<0.01				<0.01
3/17/2020			<0.01						
3/18/2020					<0.01		0.0056 (J)		
3/19/2020						0.0088 (J)		0.0046 (J)	<0.01
3/25/2020	0.0015 (J)	<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)	
9/24/2020		<0.01							<0.01
9/25/2020	0.0011 (J)				<0.01				
2/9/2021	0.0012 (J)	<0.01							
2/10/2021					<0.01			0.0041 (J)	
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)	
3/4/2021	0.0011 (J)	<0.01							

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
6/1/2016		0.0055 (J)				
6/2/2016	0.0093 (J)					
6/8/2016					<0.01	
7/25/2016		0.0037 (J)				
7/26/2016	0.0113					
8/1/2016					<0.01	
9/2/2016						0.0027 (J)
9/14/2016		0.0034 (J)				
9/15/2016	0.0112					
9/20/2016					<0.01	
11/1/2016	0.0099 (J)	0.0025 (J)				
11/8/2016					<0.01	
11/14/2016						0.0071 (J)
1/11/2017	0.0093 (J)	0.0033 (J)				
1/17/2017					<0.01	
2/28/2017						0.0038 (J)
3/1/2017		0.0044 (J)				
3/2/2017	0.0103					
3/8/2017					<0.01	
4/26/2017	0.01	0.0075 (J)				
5/2/2017					<0.01	
5/9/2017						0.0025 (J)
6/28/2017	0.0102	0.008 (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		
3/28/2018	0.011	0.0025 (J)				
3/30/2018					<0.01	<0.01
4/3/2018				<0.01		
6/7/2018	0.011					
6/8/2018		0.0041 (J)				
6/29/2018				0.0021 (J)		
8/6/2018				<0.01		
9/24/2018				<0.01		
10/1/2018	0.012	0.0037 (J)				
2/27/2019	0.011	0.0027 (J)				
3/5/2019					<0.01	
3/6/2019						<0.01
4/1/2019	0.012	0.0021 (J)				
9/25/2019	0.012	0.0087 (J)				
2/11/2020		0.003 (J)				
2/12/2020	0.013					
3/19/2020	0.013	0.0043 (J)				
3/25/2020			0.0019 (J)			<0.01
3/26/2020					<0.01	
9/23/2020	0.012	0.01			<0.01	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/6/2021 8:36 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
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	0.014	0.0038 (J)	<0.01			<0.01
3/3/2021	0.013	0.0036 (J)			<0.01	
3/4/2021			<0.01	0.0024 (J)		<0.01

Time Series

Constituent: pH (S.U.) Analysis Run 5/6/2021 8:36 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)
6/6/2016						6.17	5.71		
6/7/2016					5.62			5.77	6.1
7/27/2016					5.59	6.14	5.46	5.79	
7/28/2016									6.12
9/16/2016				5.58					
9/19/2016						6.04	5.59	5.73	6.12
11/2/2016								5.67	
11/3/2016				5.59	5.97	5.39			6.07
1/11/2017				5.59	6.05	5.48			
1/13/2017								5.79	6.41
3/1/2017						5.94	5.41		
3/2/2017				5.54					
3/6/2017								5.63	6.34
4/26/2017						5.99	5.4	5.66	6.32
5/2/2017				5.47					
6/28/2017						6	5.36		
6/29/2017				5.56				5.85	6.47
10/3/2017									6.56
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	6.75
6/5/2018									6.09
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		6.67
3/5/2019				5.48		5.26	6.07		7.22
3/6/2019					5.99				
4/2/2019				5.74					6.94
4/3/2019					6.29	5.47	5.71		
9/24/2019									6.87
9/25/2019				5.49				5.86	
9/26/2019					6.04	5.2			
1/3/2020	5.78								
1/15/2020		6.25		5.64					
1/16/2020			6.47						
2/11/2020				5.37	5.58	6.07	5.3		
2/12/2020								6	7.13
3/24/2020				5.57	5.98	5.33	5.86		6.35
3/25/2020	6.13								
9/23/2020		5.66	5.89		5.58 (D)	6.01 (D)	5.29 (D)		
9/24/2020	6			5.38				5.8 (D)	6.7 (D)
2/9/2021	6.42	5.81	6.96	5.34		6.12	5.43	5.86	6.95
3/3/2021	6.54	5.67	6.8		5.52	5.89	5.31	5.89	
3/4/2021				5.32					6.8

Time Series

Constituent: pH (S.U.) Analysis Run 5/6/2021 8:36 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			6.36	7.67	5.75				
6/7/2016						5.57			
7/26/2016			6.22	7.66	5.72				
7/28/2016						5.6			
8/30/2016									5.64
9/14/2016			6.23	7.6	5.74				
9/20/2016						5.53			
11/2/2016			6.08	7.35					
11/4/2016					5.61				
11/8/2016						5.53			
11/16/2016									6.21
1/12/2017				7.49	5.71				
1/13/2017			6.19						
1/16/2017						5.59			
2/27/2017									6.09
3/6/2017			6.2						
3/7/2017				7.43	5.66				
3/9/2017						5.56			
5/1/2017			6.21	7.22					
5/2/2017					5.65	5.61			
5/10/2017									5.79
6/27/2017				7.32	5.7				
6/29/2017			6.21						
7/10/2017						5.68			
7/11/2017									5.45
10/3/2017				7.48	5.79				
10/5/2017			6.16						
10/11/2017	6.4					5.46			
10/12/2017		5.43					4.85	4.94	5.48
11/20/2017	6.33	5.1					4.87		
11/21/2017								4.69	
1/10/2018		4.97							
1/11/2018	6.29							4.73	
1/12/2018							4.78		
2/19/2018		5.6						4.96	
2/20/2018	7.22						5.1		
3/29/2018			6.09	7.02	5.63				
3/30/2018						5.73			
4/3/2018	6.87	5.84					4.76	5.31	
4/4/2018									5.93
6/6/2018				7.43					
6/7/2018			6.12		5.63				
6/12/2018						5.63			
6/27/2018								4.78	
6/28/2018	6.18	5.24					4.75		
8/7/2018	6.08	5.18					4.72	4.77	
9/20/2018									5.63
9/24/2018	5.81	5.14					4.67	4.78	
9/26/2018			5.84	7.13	5.63				
9/27/2018						5.47			
3/4/2019			6.18	7.46	5.75				
3/6/2019						5.84			

Time Series

Constituent: pH (S.U.) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
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

Time Series

Constituent: pH (S.U.) Analysis Run 5/6/2021 8:36 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-11 (bg)	YGWA-2I (bg)	YGWA-30I (bg)
8/27/2008				6.53					
3/3/2009				6.35					
11/18/2009				6.47					
3/3/2010				6.53					
3/10/2011				5.83					
9/8/2011				5.69					
3/5/2012				6.27					
9/10/2012				6.23					
2/6/2013				7.56					
8/12/2013				6.68					
2/5/2014				6.32					
8/3/2015				6.13 (D)					
2/16/2016				5.64					
6/1/2016						7.46	6.33		
6/2/2016					5.46				5.75
7/25/2016							6.21		5.82
7/26/2016					5.45	7.43			
8/30/2016			5.75						
8/31/2016	7.27								
9/1/2016		5.78							
9/13/2016						7.44	6.16	7.41	
9/15/2016					5.45				
9/19/2016									5.78 (D)
11/1/2016						7.24			5.62
11/2/2016					5.41				
11/4/2016							6.29	7.12	
11/14/2016			5.59						
11/15/2016		5.81							
11/16/2016	6.79								
11/28/2016				6.23					
12/15/2016							7.24		
1/10/2017					5.37				
1/11/2017						7.3			
1/16/2017							6.29	7.24	5.72
2/21/2017									5.67
2/22/2017				6.21					
2/24/2017	6.39		5.49						
2/27/2017		5.68							
3/2/2017						7.23	6.28		
3/3/2017								7.22	
3/8/2017					5.41				
4/26/2017					5.02				5.56
4/27/2017						6.99	6.09		
4/28/2017								7.21	
5/8/2017			5.58	6.12					
5/9/2017		6.18							
5/10/2017	6.5								
5/26/2017								7.13	
6/27/2017						6.87	6.21		
6/28/2017								7.06	
6/30/2017					5.39				5.72
7/11/2017	6.32		5.58						

Time Series

Constituent: pH (S.U.) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-11 (bg)	YGWA-2I (bg)	YGWA-30I (bg)
7/13/2017		5.6							
7/17/2017				6.03					
10/3/2017						6.81	5.98	6.99	
10/4/2017									5.87
10/5/2017					5.49				
10/10/2017			5.49						
10/11/2017		5.61							
10/12/2017	5.97								
10/16/2017				6.12					
2/19/2018				6.13					
3/27/2018					5.47		6.25		5.83
3/28/2018								7.3	
3/29/2018						7.38			
4/2/2018			6.3 (O)						
4/4/2018	6.41	5.98							
6/5/2018						7.16			
6/6/2018							6.17		
6/7/2018								7.29	
6/8/2018					5.45				
6/11/2018									5.69
8/6/2018				6.01					
9/19/2018			5.48						
9/20/2018	5.69	5.67							
10/1/2018					5.39	6.8	5.9	7.07	
10/2/2018									5.39
2/25/2019				6.51					
2/26/2019					5.46				5.77
2/27/2019						6.84	5.8	7.27	
3/27/2019			5.83						
3/28/2019	5.96	5.86				6.99	6.15		
3/29/2019					5.34			7.06	
4/1/2019									5.62
6/12/2019				6.3					
8/19/2019				6.23					
8/20/2019			5.58						
8/21/2019	5.84								
9/24/2019						7.07	6.23	7.01	
9/25/2019					5.19				5.69
9/26/2019		5.6							
10/8/2019			5.59	6.28					
10/9/2019	5.78								
2/10/2020						7.2	6.1		
2/11/2020								7.38	
2/12/2020					5.48				5.8
3/17/2020			5.57	6.14					
3/18/2020					5.38		6.19		
3/19/2020						7.03		7.22	6
3/25/2020	5.79	5.69							
5/6/2020				6.24					
8/26/2020				5.67					
8/27/2020			4.88						
9/22/2020			5.46	5.78					

Time Series

Constituent: pH (S.U.) Analysis Run 5/6/2021 8:36 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-11 (bg)	YGWA-21 (bg)	YGWA-30I (bg)
9/23/2020						7.15	6.01	7.22	
9/24/2020		5.62							5.67
9/25/2020	5.75				5.44				
2/9/2021	5.86	5.79							
2/10/2021					5.35			7.29	
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	
3/4/2021	5.88	5.88							

Time Series

Constituent: pH (S.U.) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
6/1/2016		7.72				
6/2/2016	7.84					
6/8/2016					5.65	
7/25/2016		7.74				
7/26/2016	7.88					
8/1/2016					5.47	
9/2/2016						5.84
9/14/2016		7.65				
9/15/2016	7.74					
9/20/2016					5.61	
11/1/2016	7.75	7.7				
11/8/2016					5.55	
11/14/2016						6.28
1/11/2017	7.66	7.53				
1/17/2017					5.53	
2/28/2017						5.99
3/1/2017		7.42				
3/2/2017	7.68					
3/8/2017					5.62	
4/26/2017	7.45	7.4				
5/2/2017					5.46	
5/9/2017						6.3
6/28/2017	7.65	7.5				
7/7/2017					5.81	
7/13/2017						5.57
9/22/2017						5.5
9/29/2017						5.58
10/4/2017	7.49	7.45				
10/5/2017					5.45	
10/6/2017						5.51
10/11/2017						5.47
10/12/2017				5.57		
11/21/2017				5.49		
1/11/2018				5.87		
2/20/2018				5.9		
3/28/2018	7.91	7.74				
3/30/2018					5.64	5.51
4/3/2018				5.66		
6/7/2018	7.69					
6/8/2018		7.64				
6/12/2018					5.64	
6/13/2018						5.5
6/29/2018				5.49		
8/6/2018				5.52		
9/24/2018				5.37		
9/26/2018					5.61	5.53
10/1/2018	7.39	7.47				
2/27/2019	7.55	7.54				
3/5/2019					5.72	
3/6/2019						5.21
4/1/2019	7.87	7.74				
4/4/2019					5.66	5.74

Time Series

Constituent: pH (S.U.) Analysis Run 5/6/2021 8:36 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
9/25/2019	7.64	7.47				
9/26/2019					5.52	5.51
2/11/2020		7.09				
2/12/2020	7.83					
3/19/2020	7.65	7.31				
3/25/2020			5.65			5.49
3/26/2020					5.51	
9/23/2020	7.57	7.37			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	7.81	7.58	5.53			6.31
3/3/2021	8.39	8.23			5.7	
3/4/2021			5.64	5.51		5.67

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)
6/6/2016						<0.005	<0.005		
6/7/2016					0.001 (J)			<0.005	0.00048 (J)
7/27/2016					0.0012 (J)	<0.005	<0.005	<0.005	
7/28/2016									<0.005
9/16/2016					0.0015 (J)		<0.005		
9/19/2016						<0.005		<0.005	0.0014 (J)
11/2/2016								<0.005	
11/3/2016					0.0015 (J)	<0.005	<0.005		<0.005
1/11/2017					0.0014 (J)	<0.005	<0.005		
1/13/2017								<0.005	<0.005
3/1/2017						<0.005	<0.005		
3/2/2017					0.0017 (J)				
3/6/2017								<0.005	<0.005
4/26/2017						<0.005	<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	<0.005
3/28/2018					<0.005	<0.005	<0.005		
3/29/2018								<0.005	<0.005
6/5/2018									<0.005
6/6/2018								<0.005	
6/7/2018						<0.005			
6/11/2018					<0.005		<0.005		
9/25/2018					<0.005	<0.005	<0.005	<0.005	<0.005
10/16/2018	0.0019 (J)								
3/5/2019					<0.005		<0.005	<0.005	<0.005
3/6/2019						<0.005			
4/2/2019					<0.005				<0.005
4/3/2019						<0.005	<0.005	<0.005	
9/24/2019									<0.005
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			0.0018 (J)						
2/11/2020					<0.005	<0.005	<0.005		
2/12/2020								<0.005	<0.005
3/24/2020					<0.005	<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	<0.005
2/9/2021	<0.005	<0.005	<0.005	0.06		<0.005	<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					<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/6/2021 8:36 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.005	<0.005	<0.005				
6/7/2016						0.037			
7/26/2016			0.0009 (J)	<0.005	0.0009 (J)				
7/28/2016						0.0385			
8/30/2016									0.0711
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			
2/27/2017									0.0316
3/6/2017			<0.005						
3/7/2017				<0.005	<0.005				
3/9/2017						0.0437			
5/1/2017			<0.005	<0.005					
5/2/2017					<0.005	0.0395			
5/10/2017									0.053
6/27/2017				<0.005	<0.005				
6/29/2017			<0.005						
7/10/2017						0.0386			
7/11/2017									0.0697
10/11/2017	<0.005								
10/12/2017		<0.005					0.265	0.0191	0.0594
11/20/2017	<0.005	0.0042 (J)					0.246		
11/21/2017								0.0687	
1/10/2018		0.0043 (J)							
1/11/2018	<0.005							0.069	
1/12/2018							0.249		
2/19/2018		<0.005						0.071	
2/20/2018	<0.005						0.253		
3/29/2018			<0.005	<0.005	<0.005				
3/30/2018						0.028			
4/3/2018	<0.005	<0.005					0.23	0.067	
4/4/2018									0.055
6/6/2018				<0.005					
6/7/2018			<0.005		<0.005				
6/12/2018						0.026			
6/27/2018								0.066	
6/28/2018	<0.005	0.0032 (J)					0.23		
8/7/2018	<0.005	0.0031 (J)					0.2	0.061	
9/20/2018									0.041
9/24/2018	0.0015 (J)	0.0026 (J)					0.2	0.061	
9/26/2018			<0.005	<0.005	<0.005				
9/27/2018						0.023			
3/4/2019			<0.005	<0.005	<0.005				
3/6/2019						0.019			
4/3/2019			<0.005	<0.005	<0.005				
4/4/2019						0.017			

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
8/21/2019	<0.005	0.0024 (J)							
8/22/2019							0.14	0.058	0.047
9/24/2019				<0.005	<0.005				
9/25/2019			<0.005						
9/27/2019						0.018			
10/9/2019	<0.005	0.0026 (J)					0.12	0.052	0.042
2/12/2020	<0.005	0.002 (J)	<0.005	<0.005	<0.005				
3/24/2020		0.002 (J)		<0.005	<0.005				
3/25/2020	<0.005		<0.005				0.099	0.057	0.046
3/26/2020						0.024			
9/22/2020			<0.005	<0.005	<0.005				
9/24/2020	<0.005	0.0016 (J)				0.031			0.046
9/25/2020							0.076	0.046	
2/8/2021				<0.005	<0.005				
2/9/2021			<0.005			0.032	0.073		
2/10/2021	<0.005	<0.005						0.033	0.043
3/2/2021				<0.005	<0.005				
3/3/2021			0.0019 (J)						
3/4/2021	<0.005	<0.005				0.037	0.076	0.037	0.048

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/6/2021 8:36 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-11 (bg)	YGWA-21 (bg)	YGWA-30I (bg)
5/1/2007				<0.005					
9/11/2007				<0.005					
3/20/2008				<0.005					
8/27/2008				<0.005					
3/3/2009				<0.005					
11/18/2009				<0.005					
3/3/2010				<0.005					
9/8/2010				<0.005					
3/10/2011				<0.005					
9/8/2011				<0.005					
3/5/2012				<0.005					
9/10/2012				<0.005					
2/6/2013				<0.005					
8/12/2013				<0.005					
2/5/2014				<0.005					
8/5/2014				<0.005					
2/4/2015				<0.005					
8/3/2015				<0.005					
2/16/2016				<0.005					
6/1/2016						<0.005	<0.005		
6/2/2016					0.0011 (J)				<0.005
7/25/2016							<0.005		<0.005
7/26/2016					0.0016 (J)	<0.005			
8/30/2016			0.0017 (J)						
8/31/2016	<0.005			<0.005					
9/1/2016		0.0086 (J)							
9/13/2016						<0.005	<0.005		
9/14/2016								<0.005	
9/15/2016					0.0014 (J)				
9/19/2016									<0.005
11/1/2016						<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)							
11/16/2016	<0.005								
11/28/2016				<0.005					
12/15/2016								<0.005	
1/10/2017					0.0012 (J)				
1/11/2017						<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		0.0011 (J)						
2/27/2017		0.0098 (J)							
3/2/2017						<0.005	<0.005		
3/3/2017								<0.005	
3/8/2017					<0.005				
4/26/2017					<0.005				<0.005
4/27/2017						<0.005	<0.005		
4/28/2017								<0.005	
5/8/2017			<0.005	<0.005					

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-11 (bg)	YGWA-21 (bg)	YGWA-30I (bg)
5/9/2017		0.0076 (J)							
5/10/2017	<0.005								
5/26/2017								<0.005	
6/27/2017						<0.005	<0.005		
6/28/2017								<0.005	
6/30/2017					<0.005				<0.005
7/11/2017	<0.005		<0.005						
7/13/2017		0.0093 (J)							
7/17/2017				<0.005					
10/10/2017			<0.005						
10/11/2017		0.0089 (J)							
10/12/2017	<0.005								
10/16/2017				<0.005					
2/19/2018				<0.005					
3/27/2018					<0.005		<0.005		<0.005
3/28/2018								<0.005	
3/29/2018						<0.005			
4/2/2018			<0.005						
4/4/2018	<0.005	<0.005							
8/6/2018				<0.005					
9/19/2018			<0.005						
9/20/2018	<0.005	0.0081 (J)							
2/25/2019				<0.005					
2/26/2019					<0.005				<0.005
2/27/2019						<0.005	<0.005	<0.005	
3/28/2019						<0.005	<0.005		
3/29/2019					0.0019 (J)			<0.005	
4/1/2019									<0.005
6/12/2019				<0.005					
8/19/2019				<0.005					
8/20/2019			<0.005						
8/21/2019	<0.005								
9/24/2019						<0.005	<0.005	<0.005	
9/25/2019					<0.005				<0.005
9/26/2019		0.0077 (J)							
10/8/2019				<0.005					
10/9/2019	<0.005								
2/10/2020						<0.005	<0.005		
2/11/2020								<0.005	
2/12/2020					<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
3/25/2020	<0.005	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	
9/24/2020		0.0091 (J)							<0.005
9/25/2020	<0.005				<0.005				
2/9/2021	<0.005	0.0079 (J)							
2/10/2021					<0.005			<0.005	

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/6/2021 8:36 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
2/11/2021									<0.005
2/12/2021						<0.005	<0.005		
3/1/2021									<0.005
3/2/2021				<0.005	<0.005				
3/3/2021						<0.005	<0.005	<0.005	
3/4/2021	<0.005	0.0058							

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
6/1/2016		<0.005				
6/2/2016	<0.005					
6/8/2016					<0.005	
7/25/2016		<0.005				
7/26/2016	<0.005					
8/1/2016					<0.005	
9/2/2016						0.0012 (J)
9/14/2016		<0.005				
9/15/2016	<0.005					
9/20/2016					<0.005	
11/1/2016	<0.005	<0.005				
11/8/2016					<0.005	
11/14/2016						<0.005
1/11/2017	<0.005	<0.005				
1/17/2017					<0.005	
2/28/2017						0.0017 (J)
3/1/2017		<0.005				
3/2/2017	<0.005					
3/8/2017					<0.005	
4/26/2017	<0.005	<0.005				
5/2/2017					<0.005	
5/9/2017						0.0018 (J)
6/28/2017	<0.005	<0.005				
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		
3/28/2018	<0.005	<0.005				
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			
2/27/2019	<0.005	<0.005				
3/5/2019					<0.005	
3/6/2019						0.0033 (J)
4/1/2019	<0.005	<0.005				
4/4/2019					<0.005	0.0029 (J)
9/25/2019	<0.005	<0.005				
9/26/2019			<0.005		<0.005	0.0019 (J)
2/11/2020		<0.005				
2/12/2020	<0.005					
3/19/2020	<0.005	<0.005				

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/6/2021 8:36 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
3/25/2020			<0.005			0.0024 (J)
3/26/2020					<0.005	
9/23/2020	<0.005	<0.005			<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	<0.005			<0.005
3/3/2021	<0.005	<0.005			<0.005	
3/4/2021			<0.005	0.27		<0.005

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/6/2021 8:36 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)
6/6/2016						1.2	1.8		
6/7/2016				4.4				<1	5.2
7/27/2016				4.7		1.7	1.9	0.08 (J)	
7/28/2016									5.1
9/16/2016				4.8			1.7		
9/19/2016						1.8		0.08 (J)	4.8
11/2/2016								0.1 (J)	
11/3/2016				5.3		0.69 (J)	1.9		5
1/11/2017				5.2		<1	1.7		
1/13/2017								<1	4.3
3/1/2017						1.8	<1		
3/2/2017				5					
3/6/2017								<1	4.5
4/26/2017						1.6	1.9	<1	4.9
5/2/2017				5					
6/28/2017						<1	<1		
6/29/2017				5.2				<1	5.5
10/3/2017									5.8
10/4/2017				5.3			1.7	<1	
10/5/2017						1.6			
6/5/2018									6.1
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)	7
10/16/2018	83.7								
4/2/2019				5.1					3.8
4/3/2019						0.82 (J)	1.3	0.12 (J)	
9/24/2019									1
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
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	3.6
3/3/2021	16.9	7.9	91.7		5.2	<1	1	<1	
3/4/2021				340					4.5

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/6/2021 8:36 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (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
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			
2/27/2017									940
3/6/2017			8						
3/7/2017				20	2.1				
3/9/2017						69			
5/1/2017			8.4	20					
5/2/2017					2	60			
5/10/2017									1200
6/27/2017				18	2.1				
6/29/2017			9.2						
7/10/2017						57			
7/11/2017									1300
10/3/2017				16	2.3				
10/5/2017			9.6						
10/11/2017	20					52			
10/12/2017		17					940	400	1100
11/20/2017	24	71					980		
11/21/2017								430	
1/10/2018		66							
1/11/2018	23							390	
1/12/2018							880		
2/19/2018		57.2						414	
2/20/2018	20.6						905		
4/3/2018	24.5	49.4					872	406	
4/4/2018									1020
6/6/2018				8.3					
6/7/2018			8.5		2				
6/12/2018						41.4			
6/27/2018								357	
6/28/2018	22	43.8					869		
8/7/2018	20.7	40.5					879	346	
9/20/2018									810
9/24/2018	21.2	39.7					872	358	
9/26/2018			10.2	7.9	2.3				
9/27/2018						39.6			
3/26/2019		34.3							
3/27/2019	17.7						851		831
3/28/2019								258	
4/3/2019			8.5	7	2.1				

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/6/2021 8:36 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
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

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-11 (bg)	YGWA-2I (bg)	YGWA-30I (bg)
6/1/2016						5	4.2		
6/2/2016					6.6				1.3
7/25/2016							3.7		1.2
7/26/2016					6.1	5.4			
8/30/2016			160						
8/31/2016	34			29					
9/1/2016		95							
9/13/2016						2.9	5.2		
9/14/2016								9.4	
9/15/2016					6.1				
9/19/2016									1.2
11/1/2016						3.9			1.3
11/2/2016					6.3				
11/4/2016							5	13	
11/14/2016			150						
11/15/2016		94							
11/16/2016	240								
11/28/2016				36					
12/15/2016								1.8	
1/10/2017					5.9				
1/11/2017						3.7			
1/16/2017							7.9	11	<1
2/21/2017									1.4
2/22/2017				43					
2/24/2017	89		120						
2/27/2017		84							
3/2/2017						4.6	7.4		
3/3/2017								8.8	
3/8/2017					7				
4/26/2017					7				1.4
4/27/2017						5.2	7.4		
4/28/2017								10	
5/8/2017			120	60					
5/9/2017		91							
5/10/2017	100								
5/26/2017								12	
6/27/2017						5.9	6.4		
6/28/2017								11	
6/30/2017					6.5				<1
7/11/2017	110		110						
7/13/2017		88							
7/17/2017				63					
10/3/2017						6.6	5.9	7.9	
10/4/2017									1.4
10/5/2017					7.9				
10/10/2017			93						
10/11/2017		86							
10/12/2017	120								
10/16/2017				62					
2/19/2018				64.6					
4/2/2018			88.8						
4/4/2018	160	76.5							

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-11 (bg)	YGWA-2I (bg)	YGWA-30I (bg)
6/5/2018						6.4			
6/6/2018							4.4		
6/7/2018								8.8	
6/8/2018					6.4				
6/11/2018									1.1
8/6/2018				42.1					
9/19/2018			75						
9/20/2018	247	84.1							
10/1/2018					6.8	5.6	4	9.1	
10/2/2018									1
2/25/2019				42.1					
3/27/2019			65.9						
3/28/2019	181	82.8				8	4.3		
3/29/2019					7.3			9	
4/1/2019									0.96 (J)
6/12/2019				83.4					
9/24/2019						5.3	4.3	9.1	
9/25/2019					6.6				0.81 (J)
9/26/2019		80							
10/8/2019			52.3	128					
10/9/2019	279								
3/17/2020			71.6	98.6					
3/18/2020					8.1		5.3		
3/19/2020						10		12.4	1.6
3/25/2020	164	76.1							
9/22/2020			51.5	145					
9/23/2020						8.1	3.4	11.8	
9/24/2020		77							0.69 (J)
9/25/2020	281				6.1				
3/1/2021			51.6						0.88 (J)
3/2/2021				156	6				
3/3/2021						9	4.4	10.6	
3/4/2021	328	75.1							

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
6/1/2016		12				
6/2/2016	5.8					
6/8/2016					<1	
7/25/2016		8.4				
7/26/2016	6.7					
8/1/2016					1.1	
9/2/2016						72
9/14/2016		8.6				
9/15/2016	6					
9/20/2016					0.38 (J)	
11/1/2016	4.9	8.9				
11/8/2016					0.39 (J)	
11/14/2016						110
1/11/2017	4.5	8.6				
1/17/2017					<1	
2/28/2017						110
3/1/2017		9.3				
3/2/2017	4.4					
3/8/2017					0.29 (J)	
4/26/2017	5.1	11				
5/2/2017					0.29 (J)	
5/9/2017						130
6/28/2017	5.4	12				
7/7/2017					0.37 (J)	
7/13/2017						140
9/22/2017						160
9/29/2017						160
10/4/2017	6.2	12				
10/5/2017					<1	
10/6/2017						160
10/11/2017						150
10/12/2017				650		
11/21/2017				700		
1/11/2018				590		
2/20/2018				677		
4/3/2018				615		
6/7/2018	6.7					
6/8/2018		9.6				
6/12/2018					0.35 (J)	
6/13/2018						144
6/29/2018				634		
8/6/2018				623		
9/24/2018				674		
9/26/2018					0.28 (J)	160
10/1/2018	7.1	9.1				
10/16/2018			34.2			
4/1/2019	7.2	8.5				
4/4/2019					0.29 (J)	119
9/25/2019	7	13.8				
9/26/2019			14.3		0.23 (J)	84.8
3/19/2020	9	12.9				
3/25/2020			36.1			58.8

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/6/2021 8:36 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
3/26/2020					<1	
9/23/2020	6.9	16.8			<1	
9/24/2020			7.2			
9/25/2020				563		
10/7/2020						18.2
3/3/2021	7	9.6			<1	
3/4/2021			8.8	485		6.3

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)
6/6/2016						<0.001	<0.001		
6/7/2016					<0.001			<0.001	<0.001
7/27/2016					<0.001	<0.001	<0.001	<0.001	
7/28/2016									<0.001
9/16/2016					<0.001		<0.001		
9/19/2016						<0.001		<0.001	<0.001
11/2/2016								<0.001	
11/3/2016					<0.001	<0.001	<0.001		<0.001
1/11/2017					<0.001	<0.001	<0.001		
1/13/2017								<0.001	<0.001
3/1/2017						<0.001	<0.001		
3/2/2017					<0.001				
3/6/2017								<0.001	<0.001
4/26/2017						<0.001	<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	<0.001
3/28/2018					<0.001	<0.001	<0.001		
3/29/2018								<0.001	<0.001
9/25/2018									<0.001
3/5/2019					<0.001		<0.001	<0.001	<0.001
3/6/2019						<0.001			
4/2/2019					<0.001				<0.001
4/3/2019						<0.001	<0.001	<0.001	
9/24/2019									<0.001
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	<0.001
3/24/2020					<0.001	<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	<0.001
2/9/2021	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (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
9/14/2016			<0.001	<0.001	<0.001				
9/20/2016						<0.001			
11/2/2016			<0.001	<0.001					
11/4/2016					<0.001				
11/8/2016						<0.001			
11/16/2016									<0.001
1/12/2017				<0.001	<0.001				
1/13/2017			<0.001						
1/16/2017						<0.001			
2/27/2017									<0.001
3/6/2017			<0.001						
3/7/2017				<0.001	<0.001				
3/9/2017						<0.001			
5/1/2017			<0.001	<0.001					
5/2/2017					<0.001	<0.001			
5/10/2017									<0.001
6/27/2017				<0.001	<0.001				
6/29/2017			<0.001						
7/10/2017						<0.001			
7/11/2017									<0.001
10/11/2017	<0.001								
10/12/2017		<0.001					<0.001	<0.001	<0.001
11/20/2017	<0.001	<0.001					<0.001		
11/21/2017								<0.001	
1/10/2018		<0.001							
1/11/2018	<0.001							<0.001	
1/12/2018							<0.001		
2/19/2018		<0.001						<0.001	
2/20/2018	<0.001						<0.001		
3/29/2018			<0.001	<0.001	<0.001				
3/30/2018						<0.001			
4/3/2018	<0.001	<0.001					<0.001	<0.001	
4/4/2018									<0.001
6/27/2018								<0.001	
6/28/2018	<0.001	<0.001					<0.001		
8/7/2018	<0.001	<0.001					<0.001	<0.001	
9/20/2018									<0.001
9/24/2018	<0.001	<0.001					<0.001	<0.001	
3/4/2019			<0.001	<0.001	<0.001				
3/6/2019						<0.001			
4/3/2019			<0.001	<0.001	<0.001				
4/4/2019						<0.001			
8/21/2019	<0.001	<0.001							
8/22/2019							<0.001	<0.001	<0.001
9/24/2019				<0.001	<0.001				
9/25/2019			<0.001						
9/27/2019						<0.001			

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/6/2021 8:36 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
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

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-11 (bg)	YGWA-2I (bg)	YGWA-30I (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
7/25/2016							<0.001		<0.001
7/26/2016					<0.001	<0.001			
8/30/2016			<0.001						
8/31/2016	<0.001			<0.001					
9/1/2016		<0.001							
9/13/2016						<0.001	<0.001		
9/14/2016								<0.001	
9/15/2016					<0.001				
9/19/2016									<0.001
11/1/2016						<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							
11/16/2016	<0.001								
11/28/2016				<0.001					
12/15/2016								<0.001	
1/10/2017					<0.001				
1/11/2017						<0.001			
1/16/2017							<0.001	<0.001	<0.001
2/21/2017									<0.001
2/22/2017				<0.001					
2/24/2017	<0.001		<0.001						
2/27/2017		9E-05 (J)							
3/2/2017						<0.001	<0.001		
3/3/2017								<0.001	
3/8/2017					<0.001				
4/26/2017					<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							

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-11 (bg)	YGWA-2I (bg)	YGWA-30I (bg)
5/10/2017	<0.001								
5/26/2017								<0.001	
6/27/2017						<0.001	<0.001		
6/28/2017								<0.001	
6/30/2017					<0.001				<0.001
7/11/2017	<0.001		<0.001						
7/13/2017		<0.001							
7/17/2017				6E-05 (J)					
10/10/2017			<0.001						
10/11/2017		<0.001							
10/12/2017	<0.001								
10/16/2017				7E-05 (J)					
2/19/2018				<0.001					
3/27/2018					<0.001		<0.001		<0.001
3/28/2018								<0.001	
3/29/2018						<0.001			
4/2/2018			<0.001						
4/4/2018	<0.001	<0.001							
8/6/2018				<0.001					
9/19/2018			<0.001						
9/20/2018	<0.001	<0.001							
2/25/2019				<0.001					
2/26/2019					<0.001				<0.001
2/27/2019						<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)						
8/21/2019	<0.001								
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
3/17/2020			<0.001	<0.001					
3/18/2020					<0.001		<0.001		
3/19/2020						<0.001		<0.001	<0.001
3/25/2020	<0.001	<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	
9/24/2020		<0.001							<0.001
9/25/2020	<0.001				<0.001				
2/9/2021	<0.001	<0.001							
2/10/2021					<0.001			<0.001	
2/11/2021									<0.001
2/12/2021						<0.001	<0.001		
3/2/2021				<0.001					

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/6/2021 8:36 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
6/1/2016		<0.001				
6/2/2016	<0.001					
6/8/2016					<0.001	
7/25/2016		<0.001				
7/26/2016	0.0001 (J)					
8/1/2016					<0.001	
9/2/2016						<0.001
9/14/2016		<0.001				
9/15/2016	<0.001					
9/20/2016					<0.001	
11/1/2016	<0.001	<0.001				
11/8/2016					<0.001	
11/14/2016						<0.001
1/11/2017	<0.001	<0.001				
1/17/2017					<0.001	
2/28/2017						<0.001
3/1/2017		<0.001				
3/2/2017	<0.001					
3/8/2017					<0.001	
4/26/2017	<0.001	<0.001				
5/2/2017					<0.001	
5/9/2017						<0.001
6/28/2017	<0.001	<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		
3/28/2018	<0.001	<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		
2/27/2019	<0.001	<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
2/11/2020		<0.001				
2/12/2020	<0.001					
3/19/2020	<0.001	<0.001				
3/25/2020			<0.001			<0.001
3/26/2020					<0.001	
9/23/2020	<0.001	0.00016 (J)			<0.001	
9/24/2020			<0.001			
9/25/2020				<0.001		
10/7/2020						<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/6/2021 8:36 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
2/9/2021				<0.001	<0.001	
2/10/2021	<0.001	<0.001	<0.001			<0.001

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/6/2021 8:36 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)
6/6/2016						120	58		
6/7/2016				28				38	60
7/27/2016				74		94	35	74	
7/28/2016									81
9/16/2016				67			35		
9/19/2016						92		45	68
11/2/2016								53	
11/3/2016				41		104	48		61
1/11/2017				104		133	95		
1/13/2017								46	76
3/1/2017						119	79		
3/2/2017				77					
3/6/2017								164	167
4/26/2017						162	36	34	50
5/2/2017				142					
6/28/2017						98	45		
6/29/2017				53				68	94
10/3/2017									149
10/4/2017				61			45	54	
10/5/2017						104			
6/5/2018									109
6/6/2018								79	
6/7/2018						68			
6/11/2018				70			74		
9/25/2018				86		109	63	73	122
10/16/2018	209								
4/2/2019				72					134
4/3/2019						89	63	57	
9/24/2019									157
9/25/2019				81				75	
9/26/2019						126	72		
3/24/2020				71		91	59	76	117
3/25/2020	139								
9/23/2020		62	329		99	103	81		
9/24/2020	106			788				69	113
3/3/2021	121	40	245		57	95	37	53	
3/4/2021				604					110

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/6/2021 8:36 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			96	160	66				
6/7/2016						130			
7/26/2016			92	177	78				
7/28/2016						119			
8/30/2016									1650
9/14/2016			102	187	73				
9/20/2016						132			
11/2/2016			115	181					
11/4/2016					75				
11/8/2016						146			
11/16/2016									1420
1/12/2017				202	86				
1/13/2017			67						
1/16/2017						194			
2/27/2017									1640
3/6/2017			159						
3/7/2017				257	108				
3/9/2017						288			
5/1/2017			107	165					
5/2/2017					103	221			
5/10/2017									1630
6/27/2017				189	73				
6/29/2017			79						
7/10/2017						123			
7/11/2017									1800
10/3/2017				170	89				
10/5/2017			95						
10/11/2017	68					100			
10/12/2017		74					1360	636	1600
11/20/2017	139	179					1390		
11/21/2017								706	
1/10/2018		140							
1/11/2018	153							701	
1/12/2018							1400		
2/19/2018		119						630	
2/20/2018	87						1300		
4/3/2018	85	106					1390	660	
4/4/2018									1520
6/6/2018				151					
6/7/2018			90		142				
6/12/2018						115			
6/27/2018								575	
6/28/2018	88	112					1310		
8/7/2018	89	103					1340	574	
9/20/2018									1240
9/24/2018	82	107					1400	588	
9/26/2018			116	144	86				
9/27/2018						105			
3/26/2019		90							
3/27/2019	75						1190		1100
3/28/2019								372	
4/3/2019			111	142	83				

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/6/2021 8:36 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-41 (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
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

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/6/2021 8:36 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-11 (bg)	YGWA-2I (bg)	YGWA-30I (bg)
6/1/2016						120	54		
6/2/2016					46				36
7/25/2016							48		50
7/26/2016					54	94			
8/30/2016			319						
8/31/2016	80			209					
9/1/2016		228							
9/13/2016						105	67		
9/14/2016								152	
9/15/2016					54				
9/19/2016									35
11/1/2016						44			<25
11/2/2016					71				
11/4/2016							60	148	
11/14/2016			280						
11/15/2016		211							
11/16/2016	112								
11/28/2016				102					
12/15/2016								191	
1/10/2017					45				
1/11/2017						107			
1/16/2017							65	180	47
2/21/2017									<25
2/22/2017				164					
2/24/2017	147		162						
2/27/2017		382							
3/2/2017						98	61		
3/3/2017								156	
3/8/2017					178				
4/26/2017					52				55
4/27/2017						116	31		
4/28/2017								130	
5/8/2017			194	145					
5/9/2017		154							
5/10/2017	203								
5/26/2017								223	
6/27/2017						89	42		
6/28/2017								166	
6/30/2017					45				42
7/11/2017	238		193						
7/13/2017		192							
7/17/2017				185					
10/3/2017						119	58	153	
10/4/2017									31
10/5/2017					40				
10/10/2017			175						
10/11/2017		177							
10/12/2017	287								
10/16/2017				218					
2/19/2018				173					
4/2/2018			192						
4/4/2018	292	174							

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/6/2021 8:36 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-11 (bg)	YGWA-2I (bg)	YGWA-30I (bg)
6/5/2018						127			
6/6/2018							96		
6/7/2018								146	
6/8/2018					114				
6/11/2018									59
8/6/2018				158					
9/19/2018			186						
9/20/2018	434	186							
10/1/2018					50	117	60	155	
10/2/2018									57
2/25/2019				92					
3/27/2019			170						
3/28/2019	323	164				87	87		
3/29/2019					63			150	
4/1/2019									54
6/12/2019				226					
9/24/2019						124	54	146	
9/25/2019					64				51
9/26/2019		192							
10/8/2019			172	276					
10/9/2019	501								
3/17/2020			165	185					
3/18/2020					57		35		
3/19/2020						116		148	47
3/25/2020	352	130							
9/22/2020			141	281					
9/23/2020						108	15	161	
9/24/2020		187							51
9/25/2020	494				54				
3/1/2021			145						23
3/2/2021				296	67				
3/3/2021						99	39	138	
3/4/2021	592	145							

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/6/2021 8:36 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
6/1/2016		150				
6/2/2016	130					
6/8/2016					66	
7/25/2016		135				
7/26/2016	141					
8/1/2016					56	
9/2/2016						243
9/14/2016		127				
9/15/2016	153					
9/20/2016					53	
11/1/2016	92	75				
11/8/2016					58	
11/14/2016						272
1/11/2017	159	148				
1/17/2017					56	
2/28/2017						306
3/1/2017		182				
3/2/2017	117					
3/8/2017					192	
4/26/2017	181	92				
5/2/2017					113	
5/9/2017						303
6/28/2017	169	126				
7/7/2017					46	
7/13/2017						282
9/22/2017						309
9/29/2017						273
10/4/2017	141	147				
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		
6/7/2018	95					
6/8/2018		158				
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
10/1/2018	165	138				
10/16/2018			123			
4/1/2019	149	19 (J)				
4/4/2019					63	240
9/25/2019	157	159				
9/26/2019					81	198
3/19/2020	146	148				
3/25/2020			84			164

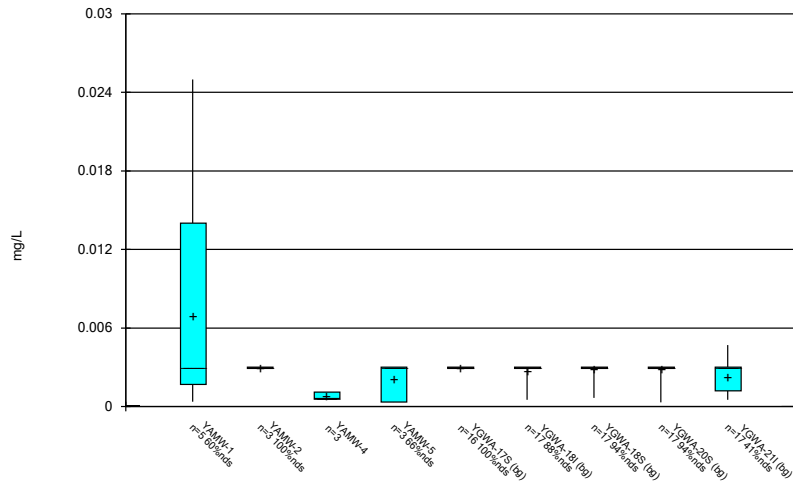
Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/6/2021 8:36 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3D (bg)	YGWA-3I (bg)	PZ-35	PZ-37	YGWC-24SA	YGWC-36A
3/26/2020					67	
9/23/2020	157	155			87	
9/24/2020			100			
9/25/2020				878		
10/7/2020						137
3/3/2021	137	111			70	
3/4/2021			59	856		69

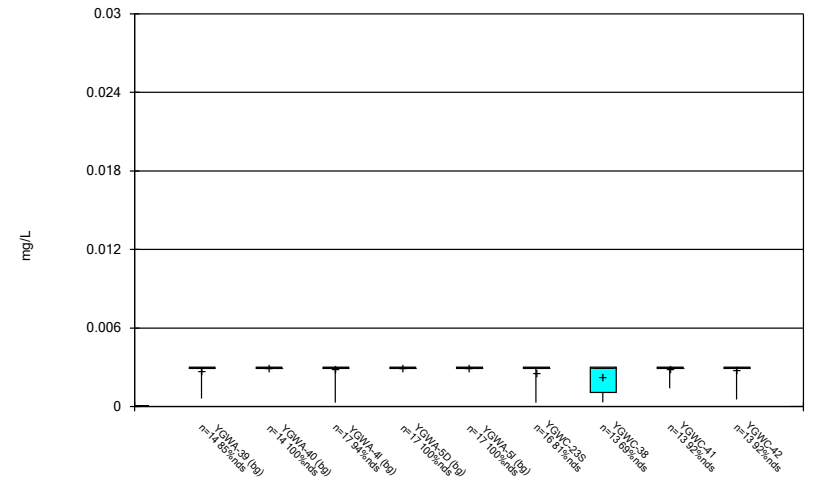
FIGURE B.

Box & Whiskers Plot



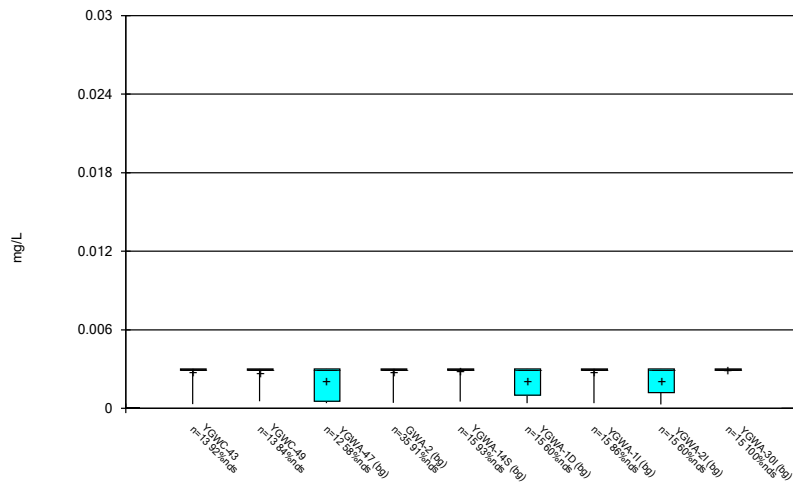
Constituent: Antimony Analysis Run 5/6/2021 8:37 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



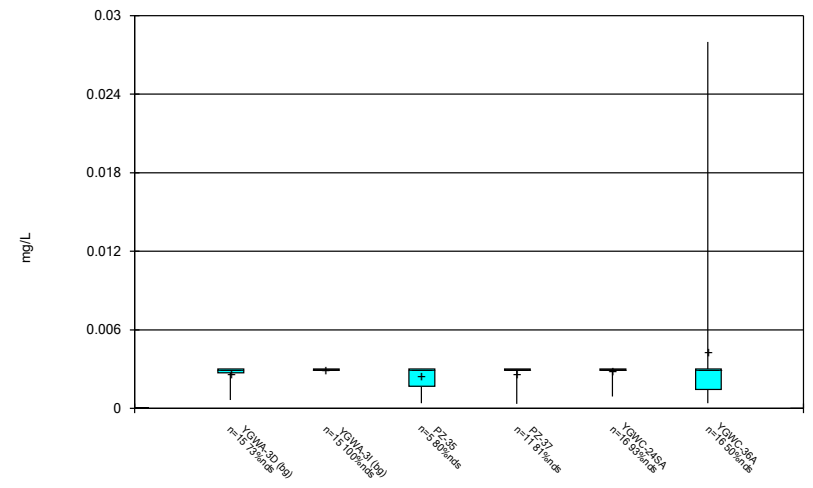
Constituent: Antimony Analysis Run 5/6/2021 8:37 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



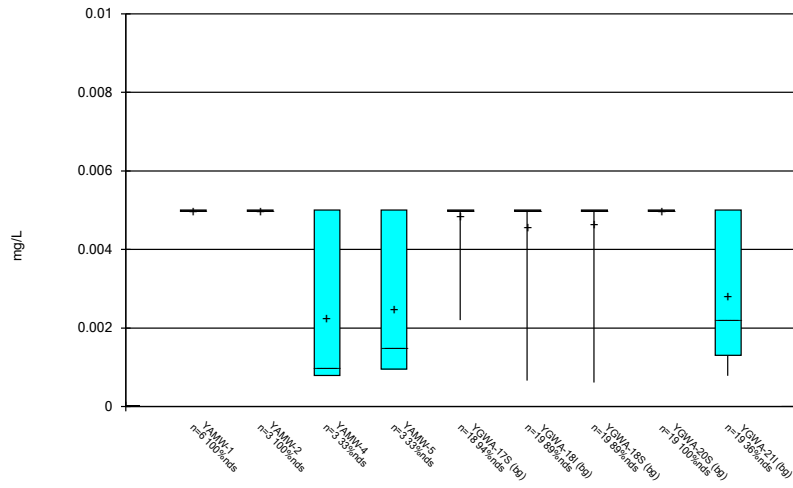
Constituent: Antimony Analysis Run 5/6/2021 8:37 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



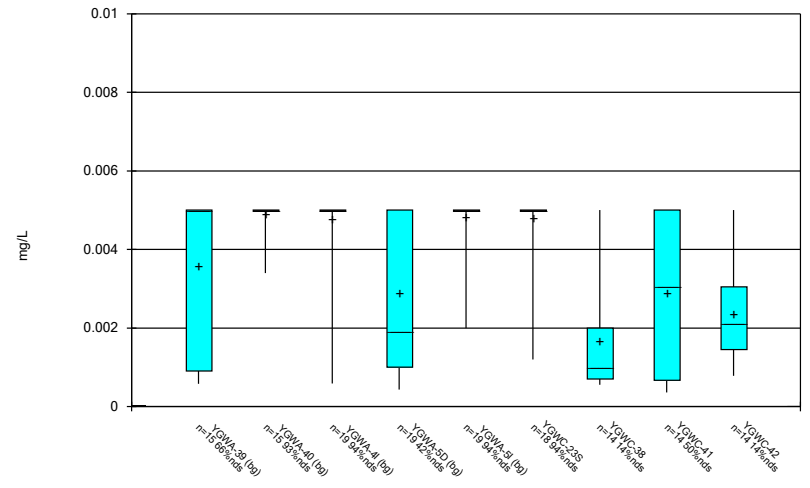
Constituent: Antimony Analysis Run 5/6/2021 8:37 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



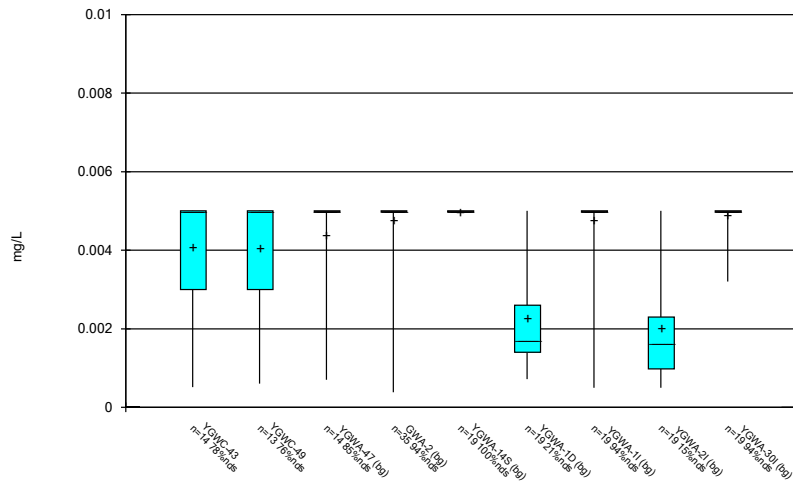
Constituent: Arsenic Analysis Run 5/6/2021 8:37 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



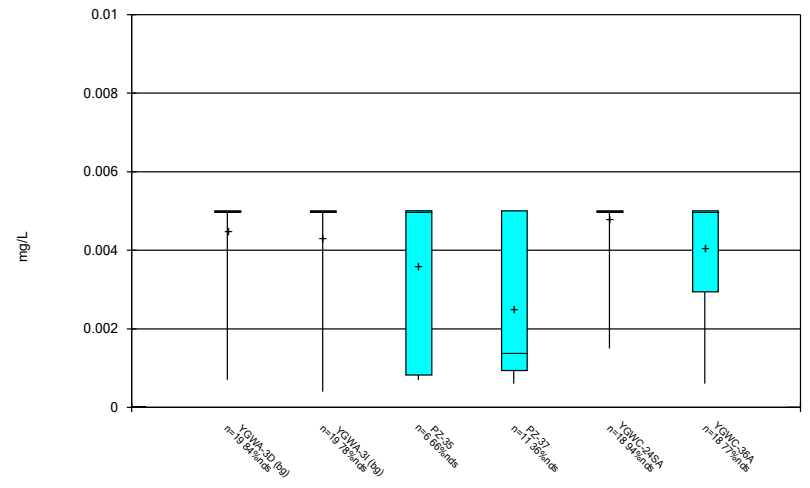
Constituent: Arsenic Analysis Run 5/6/2021 8:37 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



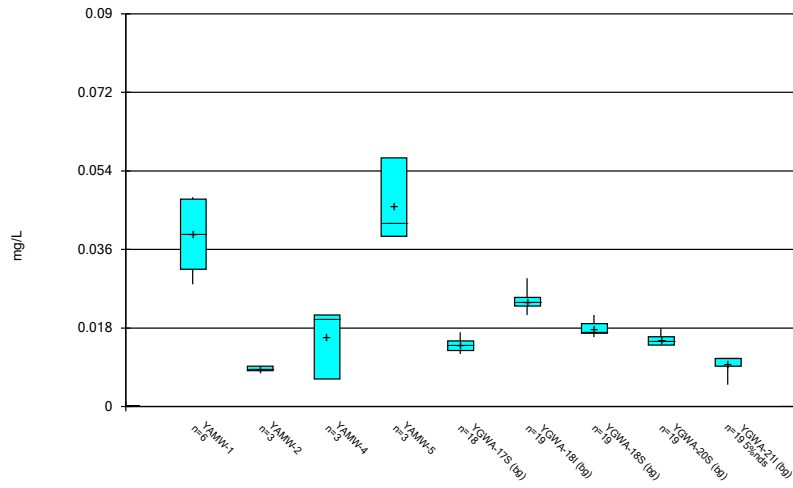
Constituent: Arsenic Analysis Run 5/6/2021 8:37 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



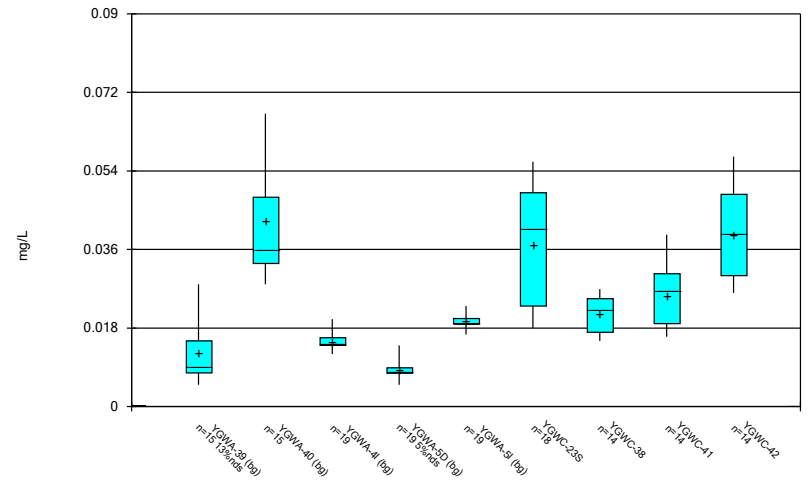
Constituent: Arsenic Analysis Run 5/6/2021 8:37 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



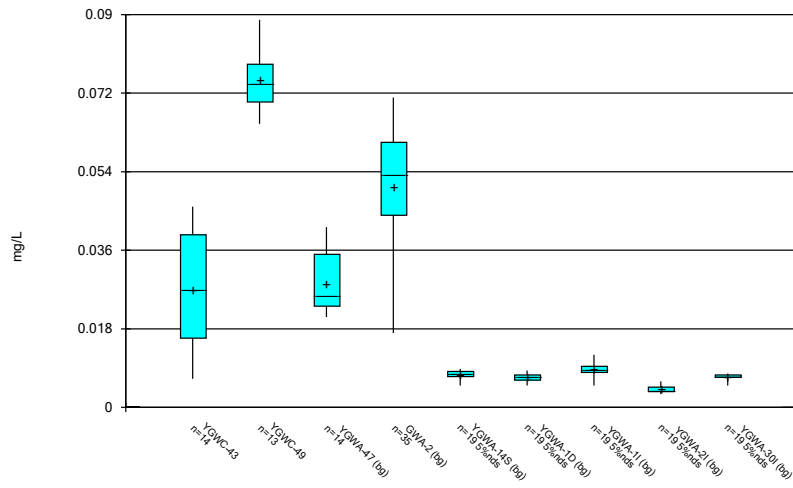
Constituent: Barium Analysis Run 5/6/2021 8:37 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



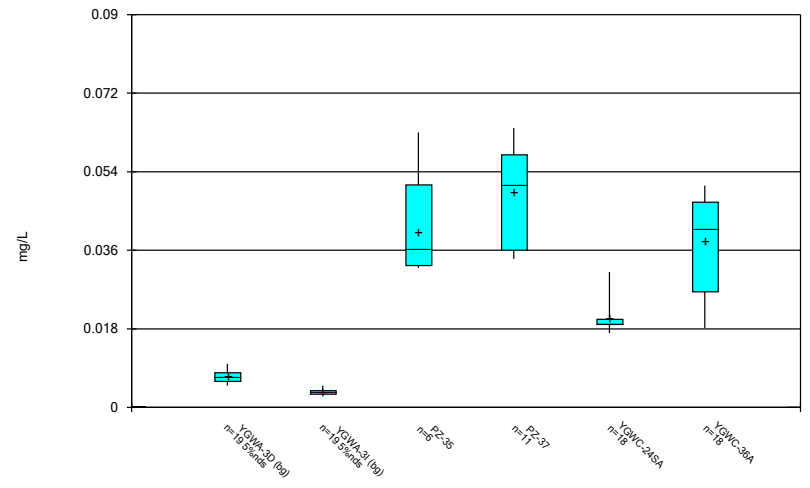
Constituent: Barium Analysis Run 5/6/2021 8:37 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



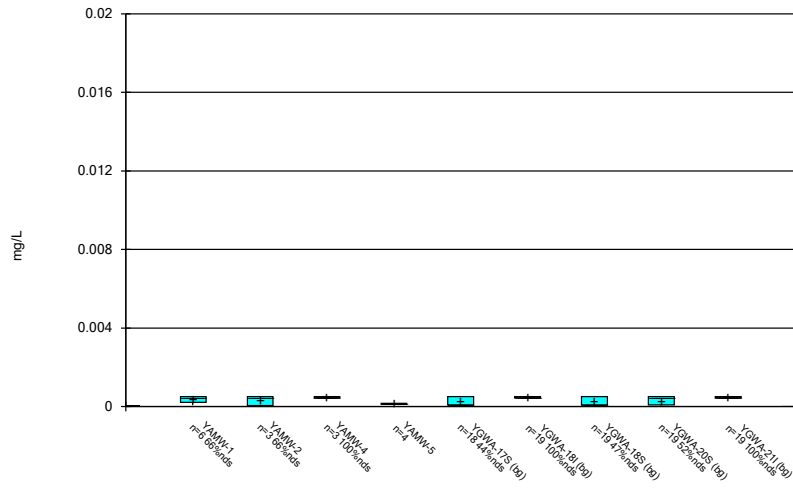
Constituent: Barium Analysis Run 5/6/2021 8:37 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



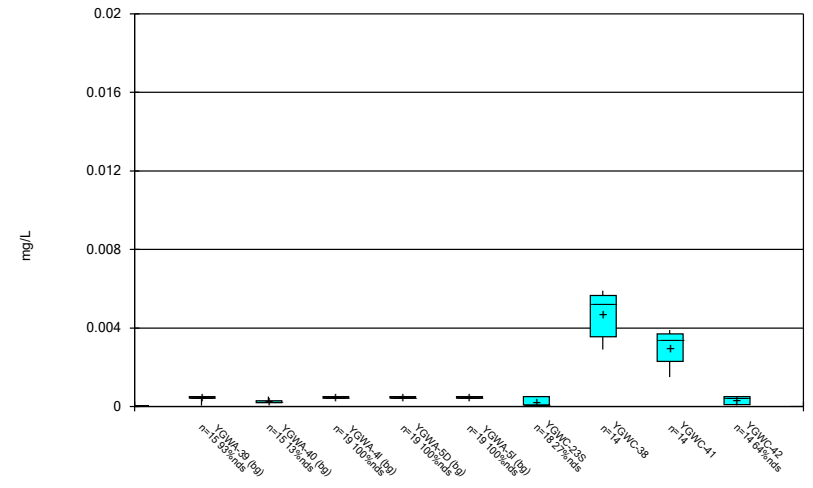
Constituent: Barium Analysis Run 5/6/2021 8:37 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



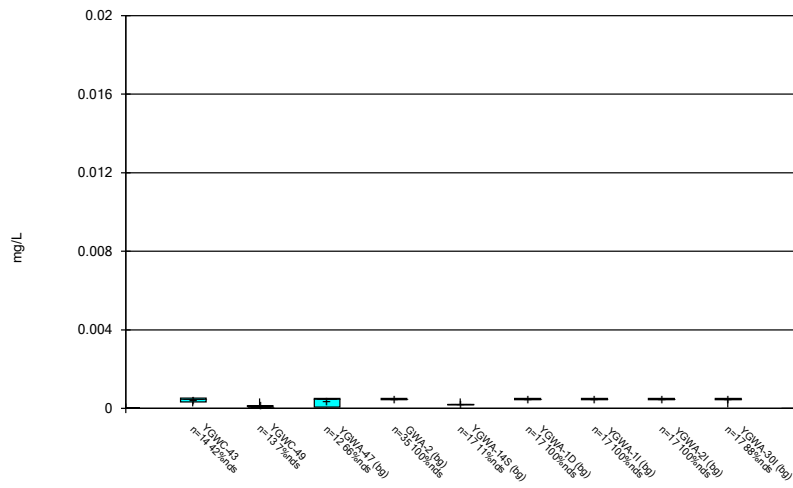
Constituent: Beryllium Analysis Run 5/6/2021 8:37 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



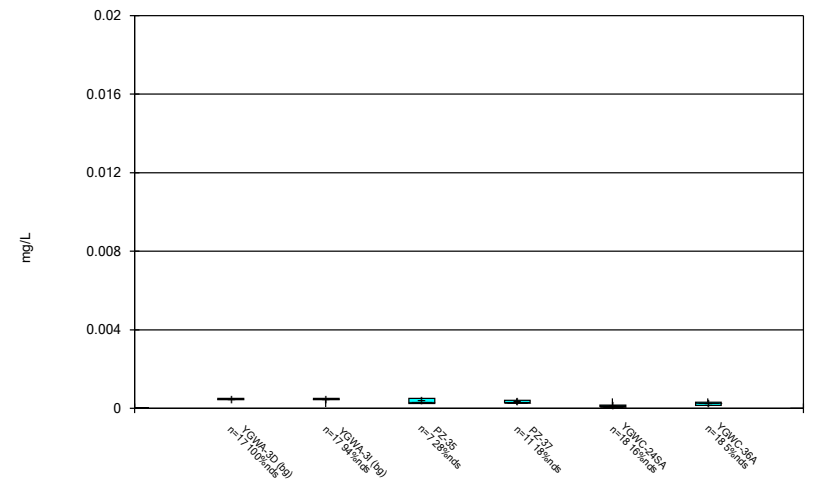
Constituent: Beryllium Analysis Run 5/6/2021 8:37 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



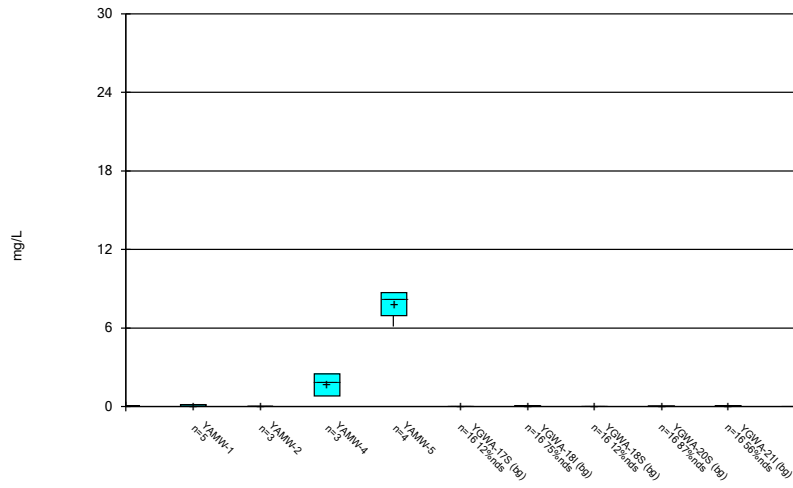
Constituent: Beryllium Analysis Run 5/6/2021 8:37 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



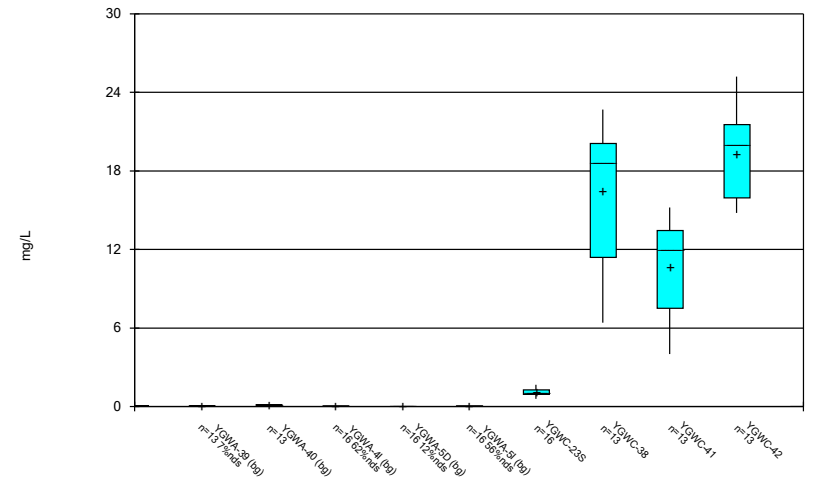
Constituent: Beryllium Analysis Run 5/6/2021 8:37 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



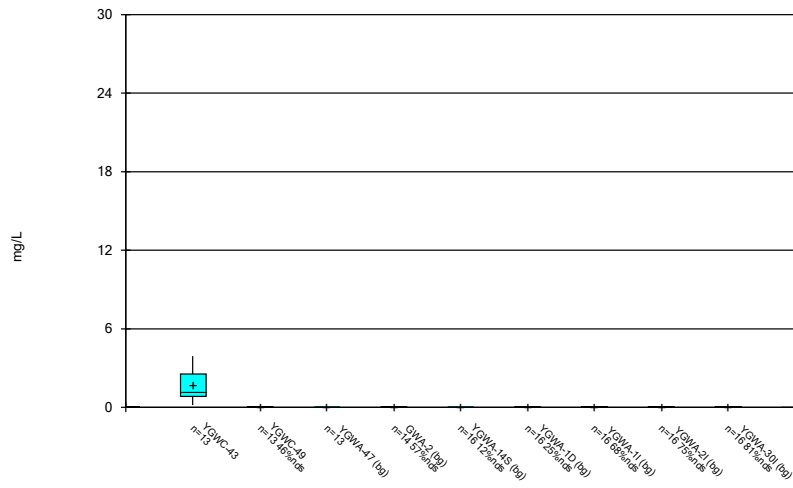
Constituent: Boron Analysis Run 5/6/2021 8:37 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



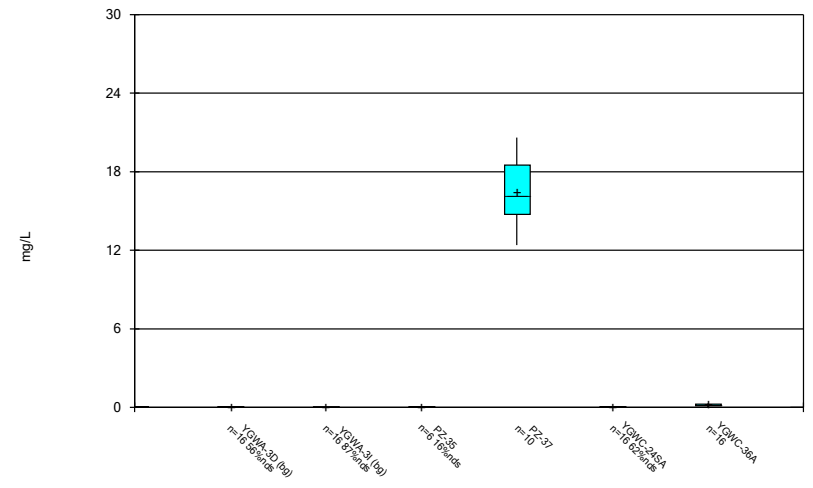
Constituent: Boron Analysis Run 5/6/2021 8:37 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



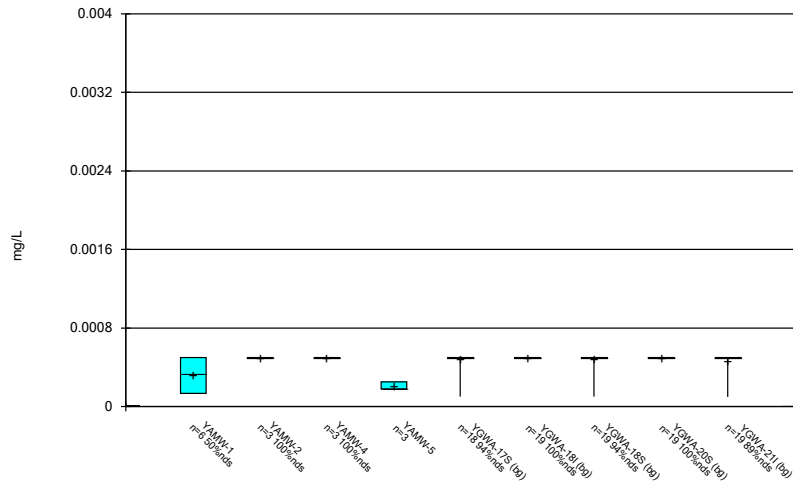
Constituent: Boron Analysis Run 5/6/2021 8:37 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



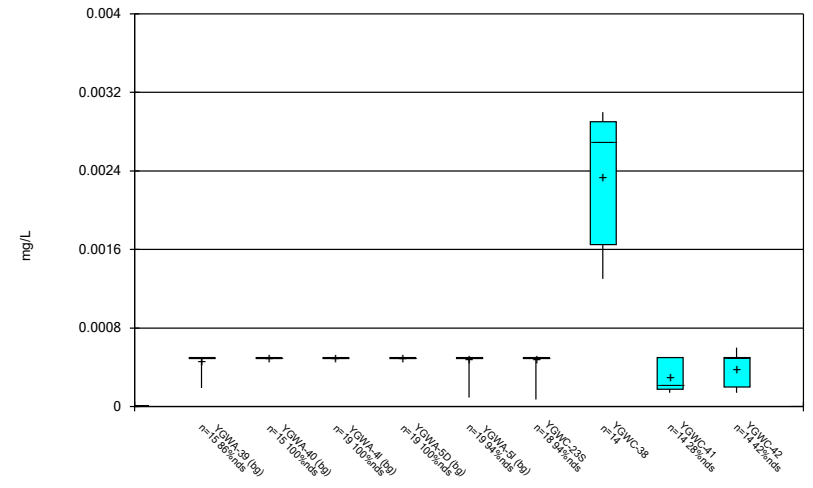
Constituent: Boron Analysis Run 5/6/2021 8:37 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



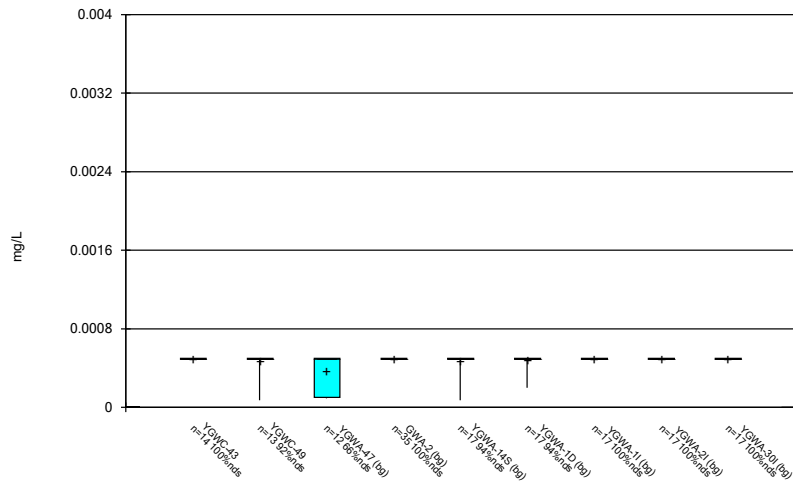
Constituent: Cadmium Analysis Run 5/6/2021 8:37 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



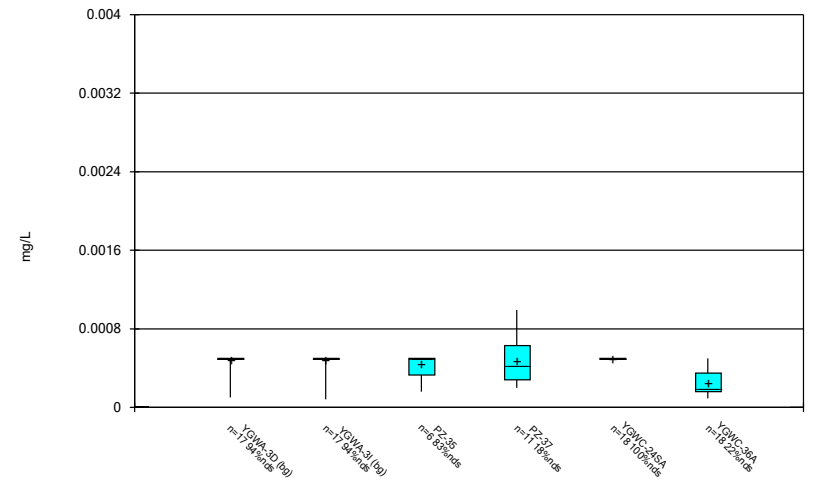
Constituent: Cadmium Analysis Run 5/6/2021 8:37 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



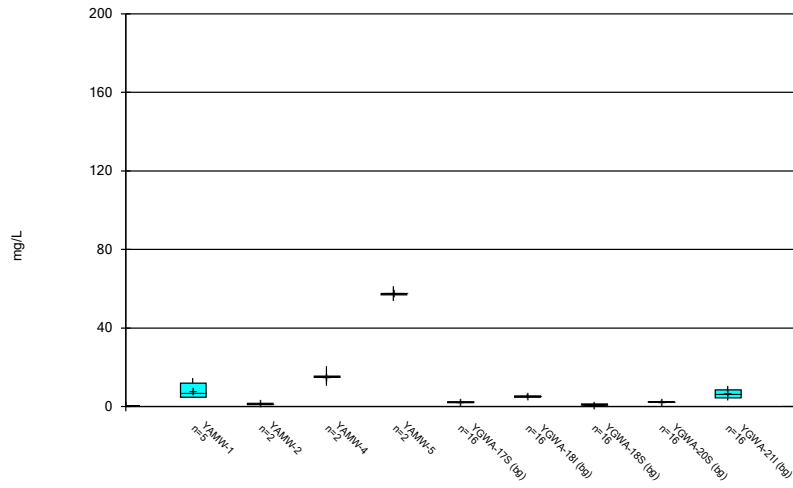
Constituent: Cadmium Analysis Run 5/6/2021 8:37 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



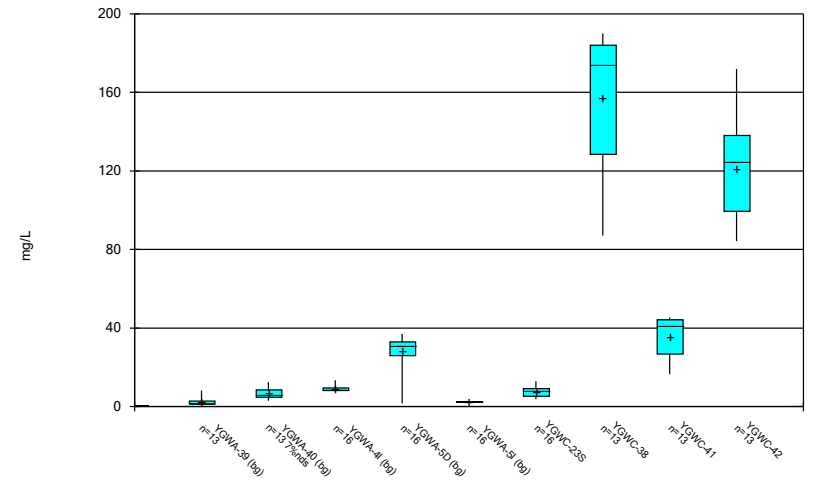
Constituent: Cadmium Analysis Run 5/6/2021 8:37 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



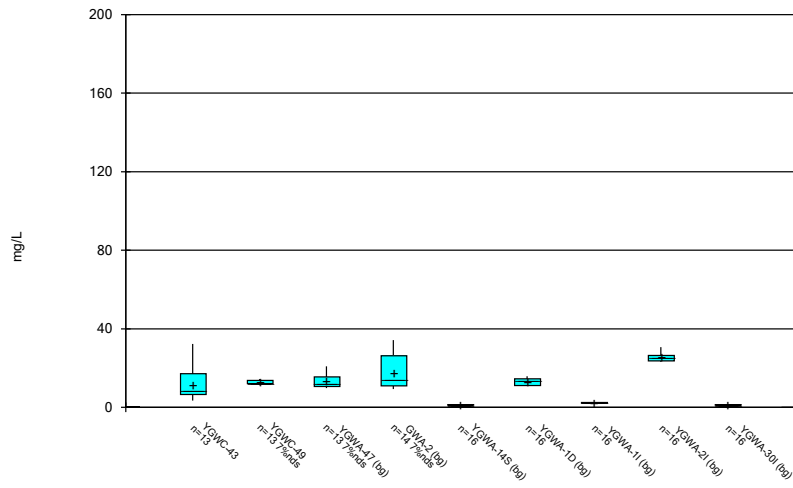
Constituent: Calcium Analysis Run 5/6/2021 8:37 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



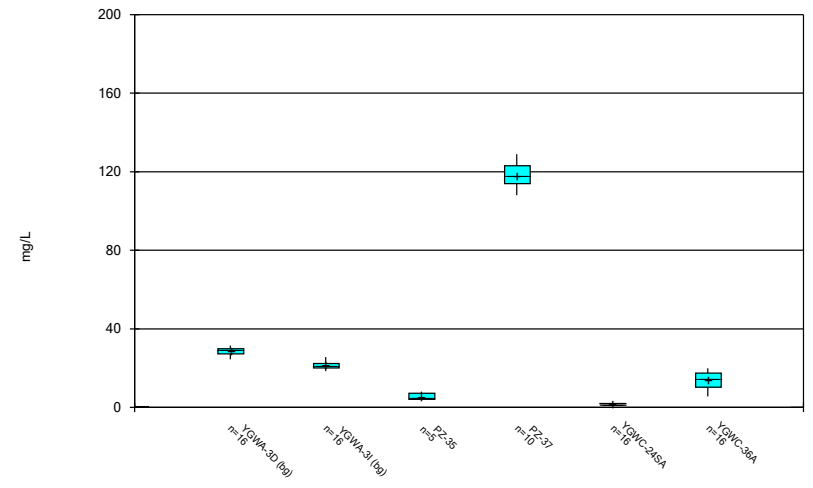
Constituent: Calcium Analysis Run 5/6/2021 8:37 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



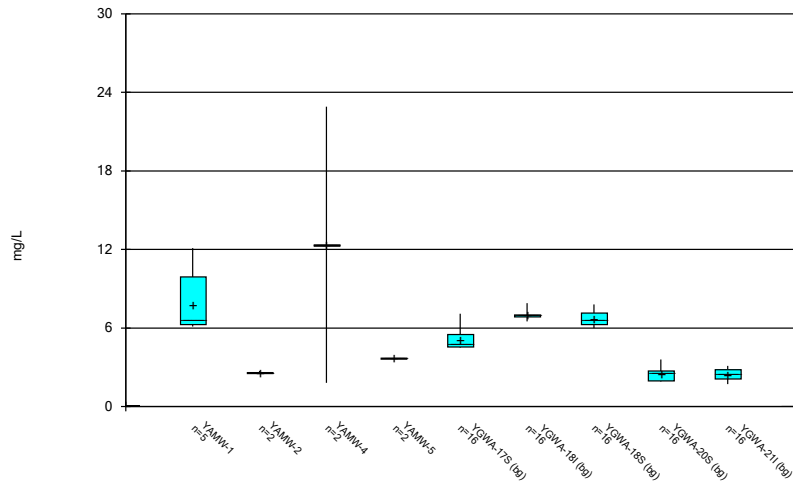
Constituent: Calcium Analysis Run 5/6/2021 8:37 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



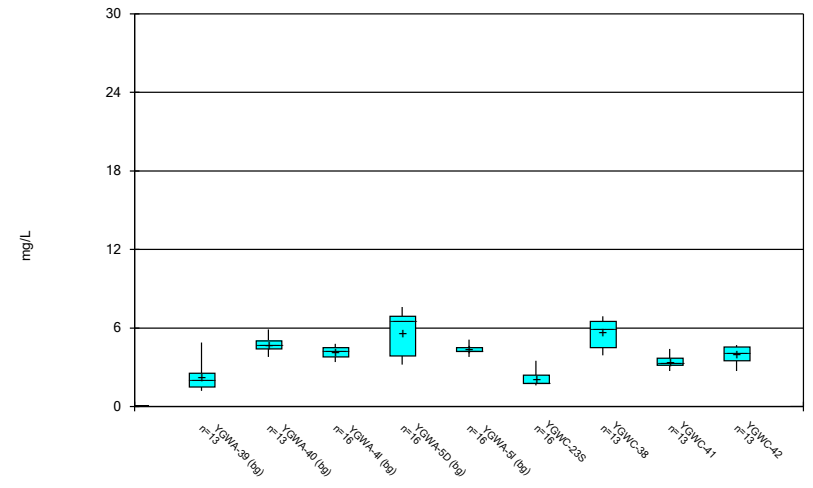
Constituent: Calcium Analysis Run 5/6/2021 8:37 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



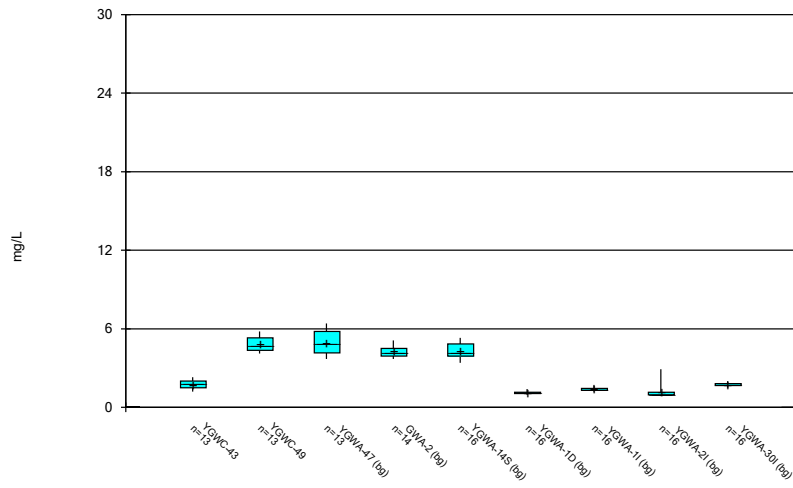
Constituent: Chloride Analysis Run 5/6/2021 8:37 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



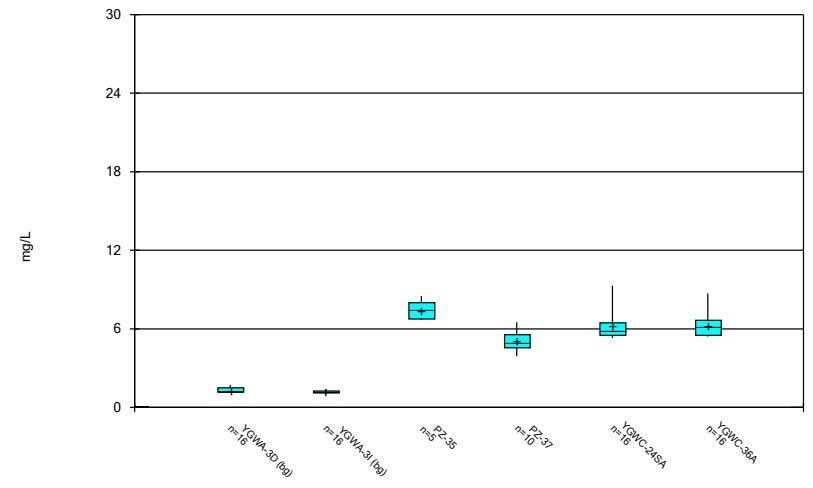
Constituent: Chloride Analysis Run 5/6/2021 8:37 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



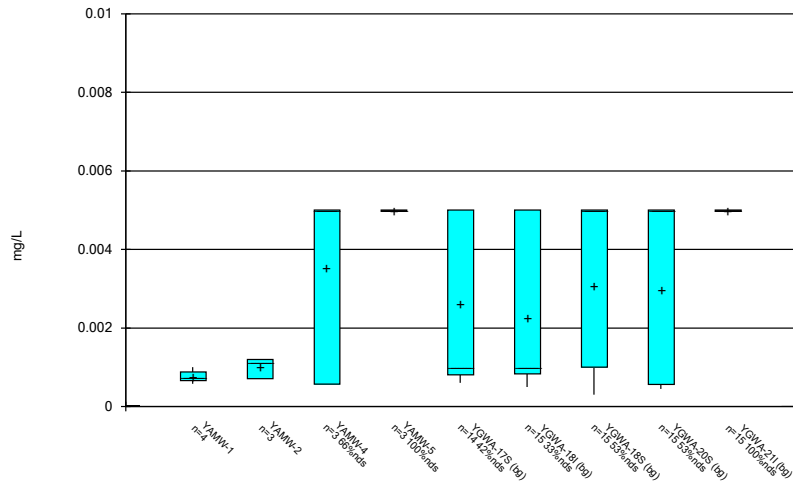
Constituent: Chloride Analysis Run 5/6/2021 8:37 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



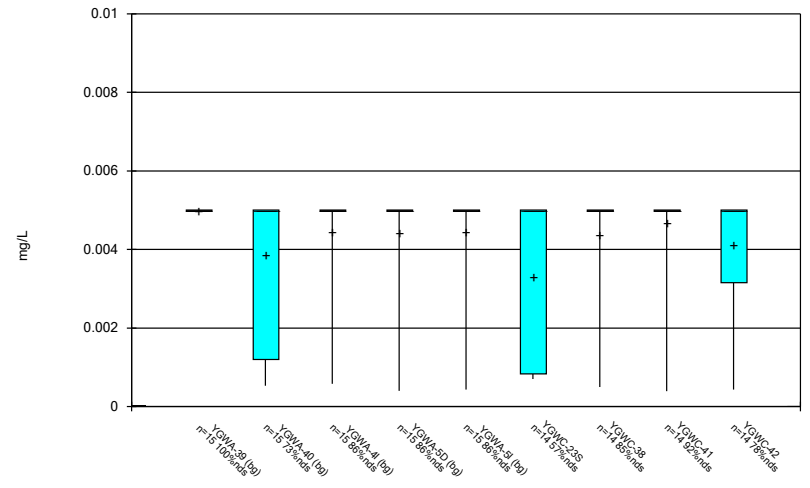
Constituent: Chloride Analysis Run 5/6/2021 8:37 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



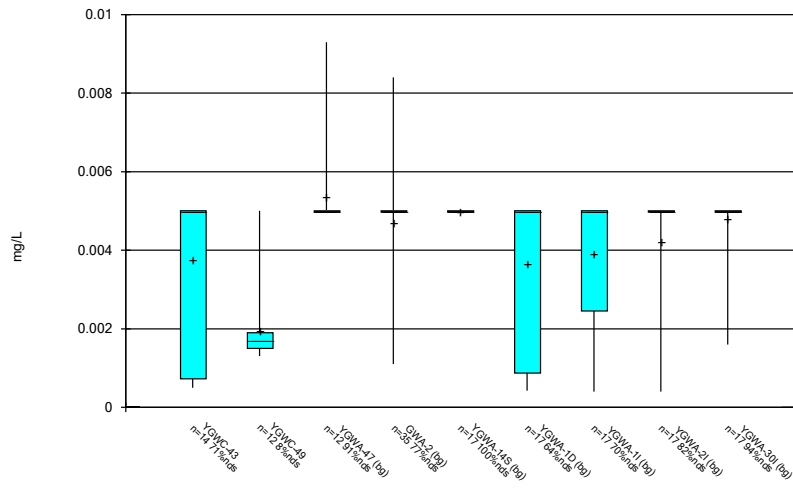
Constituent: Chromium Analysis Run 5/6/2021 8:37 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



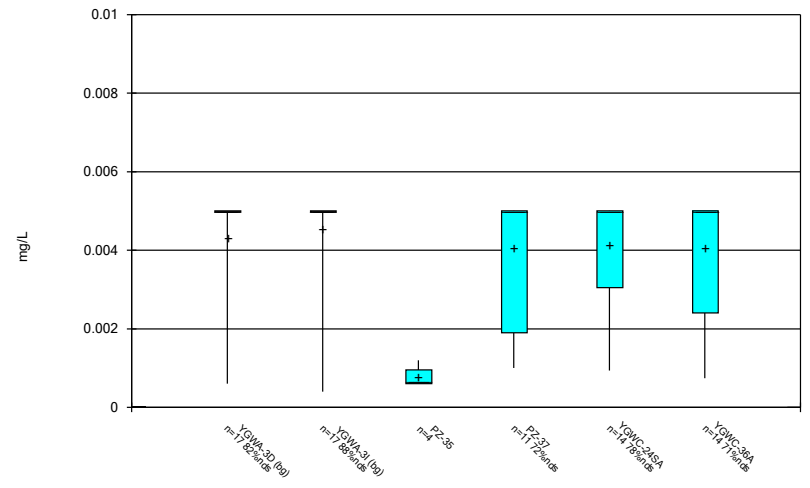
Constituent: Chromium Analysis Run 5/6/2021 8:37 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



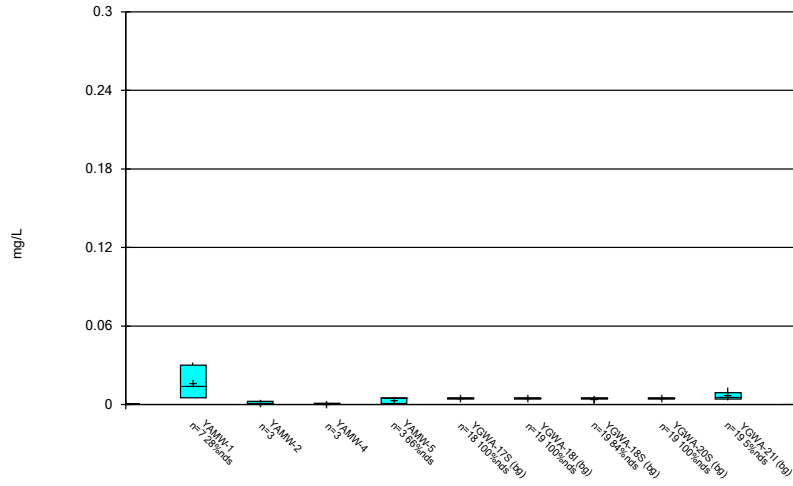
Constituent: Chromium Analysis Run 5/6/2021 8:37 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



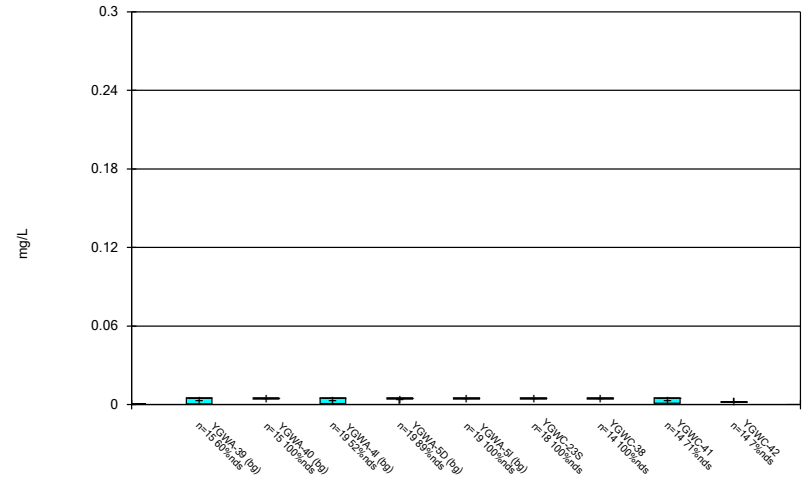
Constituent: Chromium Analysis Run 5/6/2021 8:37 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



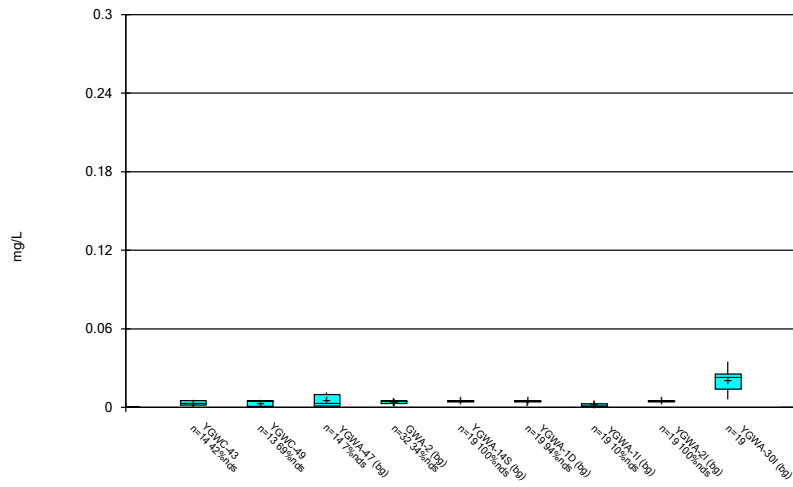
Constituent: Cobalt Analysis Run 5/6/2021 8:37 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



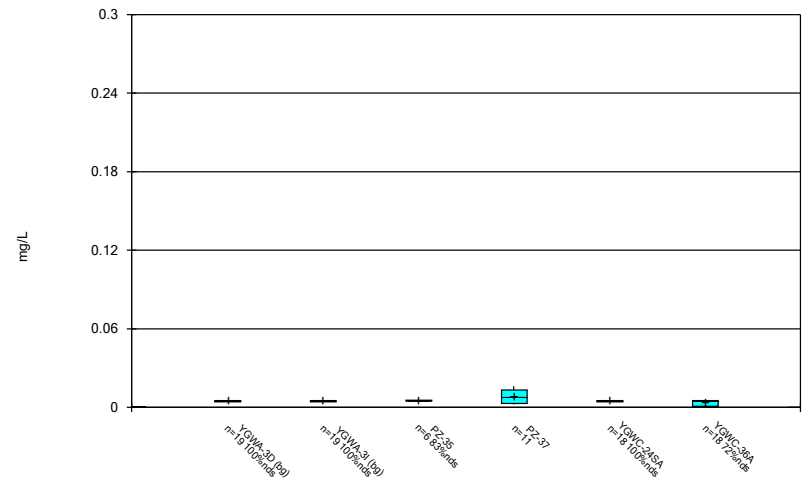
Constituent: Cobalt Analysis Run 5/6/2021 8:37 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



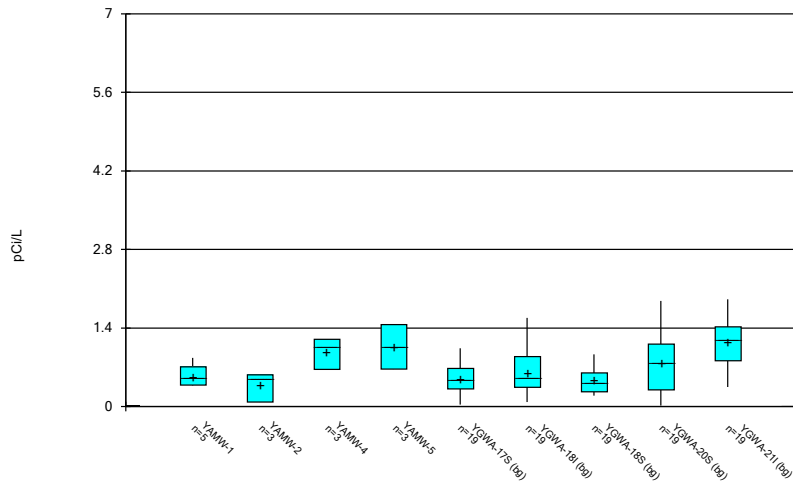
Constituent: Cobalt Analysis Run 5/6/2021 8:37 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



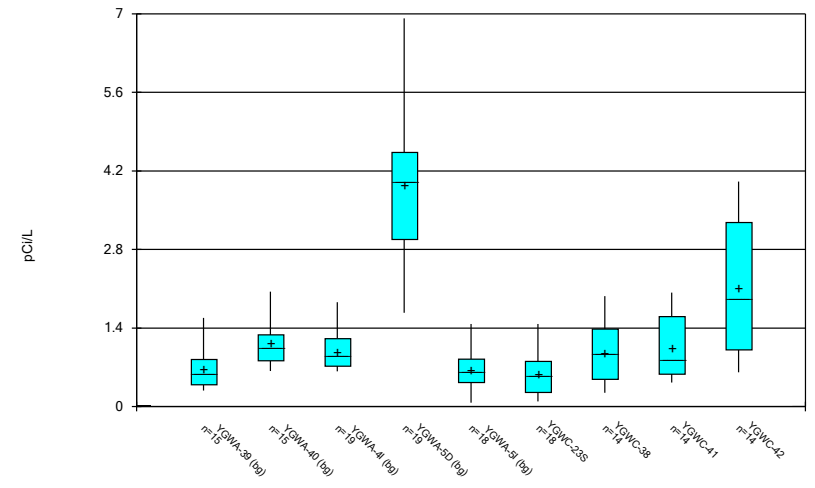
Constituent: Cobalt Analysis Run 5/6/2021 8:37 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



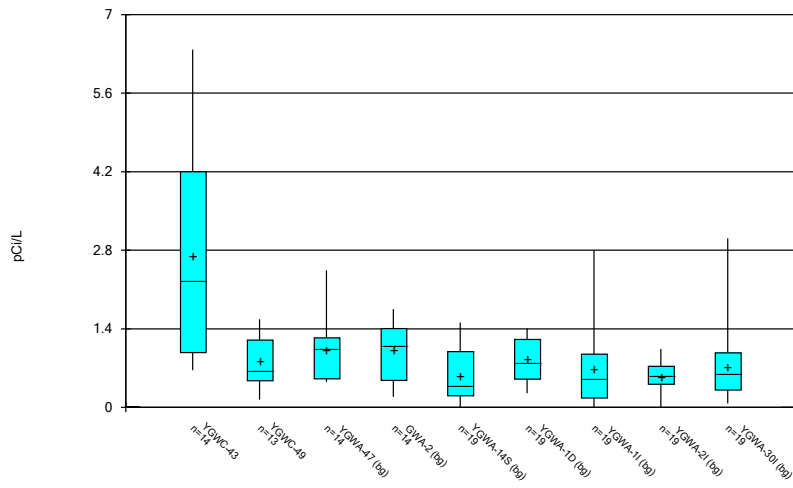
Constituent: Combined Radium 226 + 228 Analysis Run 5/6/2021 8:37 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



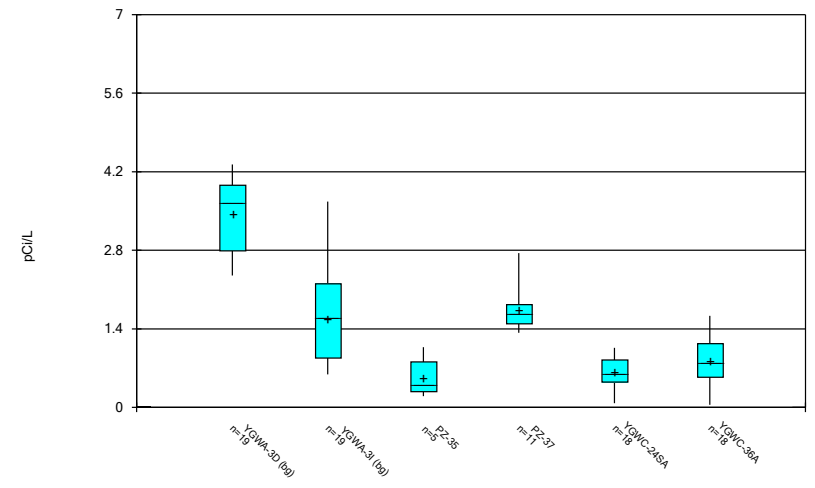
Constituent: Combined Radium 226 + 228 Analysis Run 5/6/2021 8:37 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



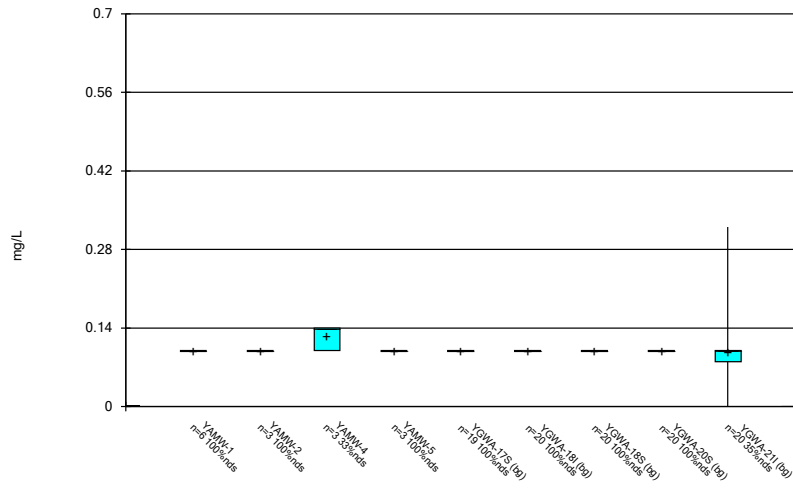
Constituent: Combined Radium 226 + 228 Analysis Run 5/6/2021 8:37 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



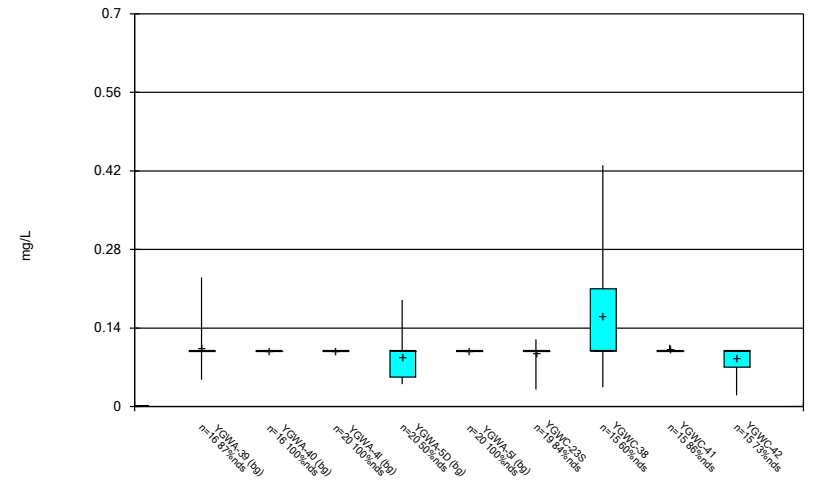
Constituent: Combined Radium 226 + 228 Analysis Run 5/6/2021 8:37 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



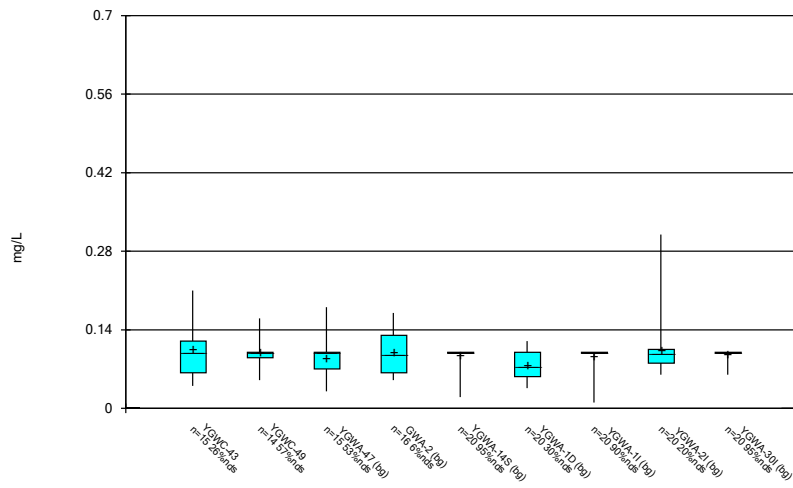
Constituent: Fluoride Analysis Run 5/6/2021 8:37 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



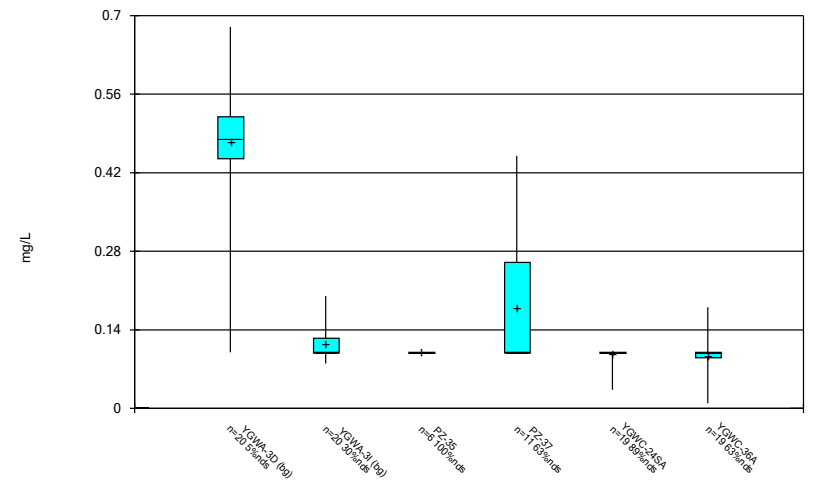
Constituent: Fluoride Analysis Run 5/6/2021 8:37 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



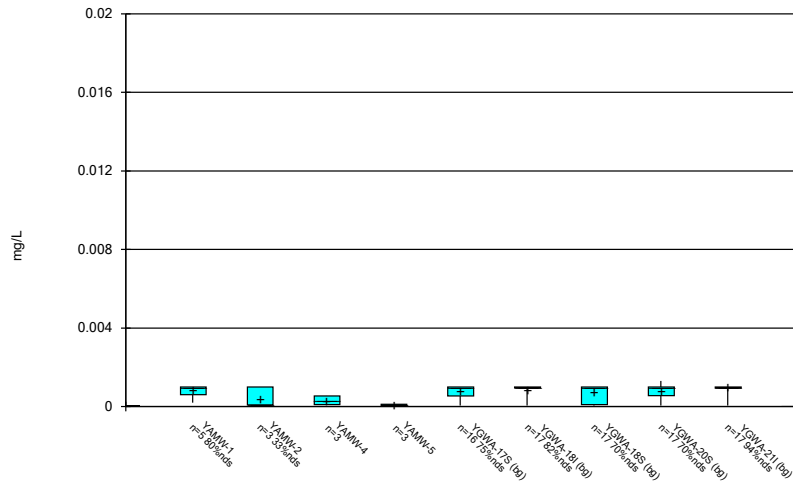
Constituent: Fluoride Analysis Run 5/6/2021 8:37 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



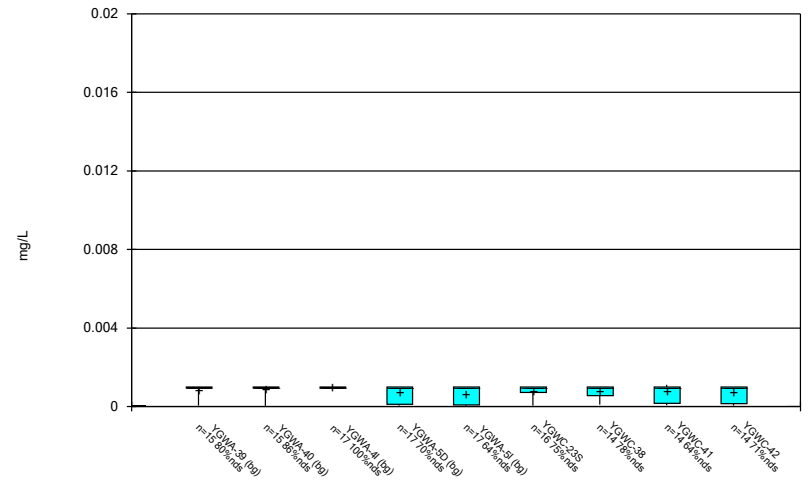
Constituent: Fluoride Analysis Run 5/6/2021 8:38 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



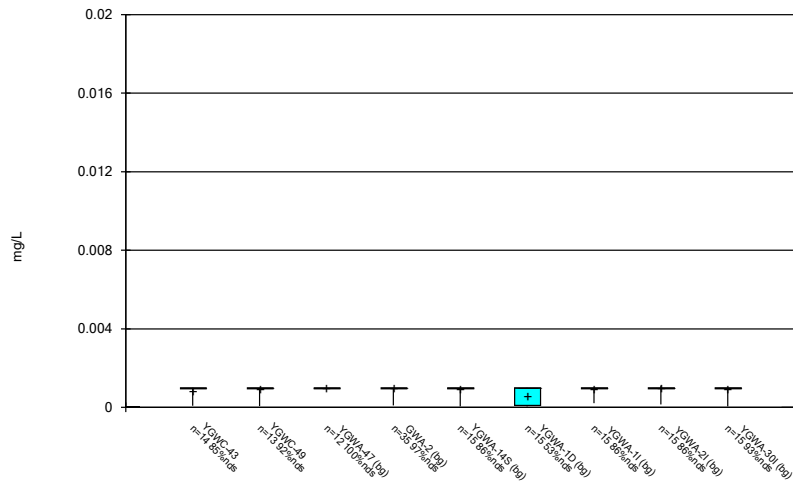
Constituent: Lead Analysis Run 5/6/2021 8:38 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



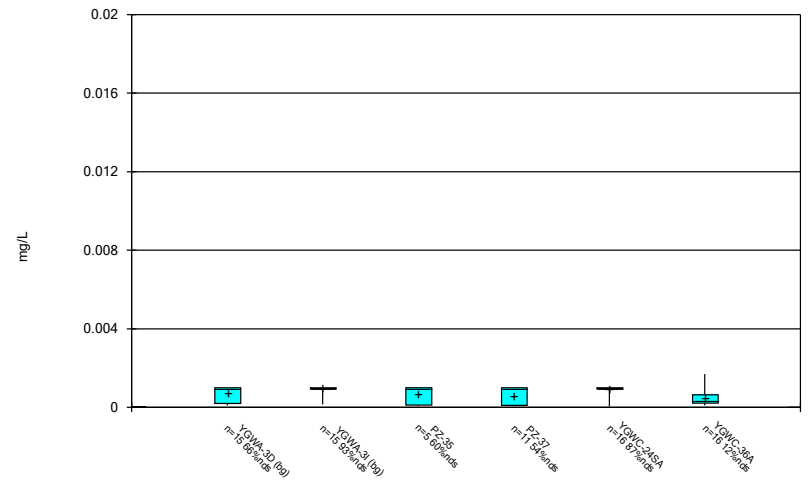
Constituent: Lead Analysis Run 5/6/2021 8:38 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



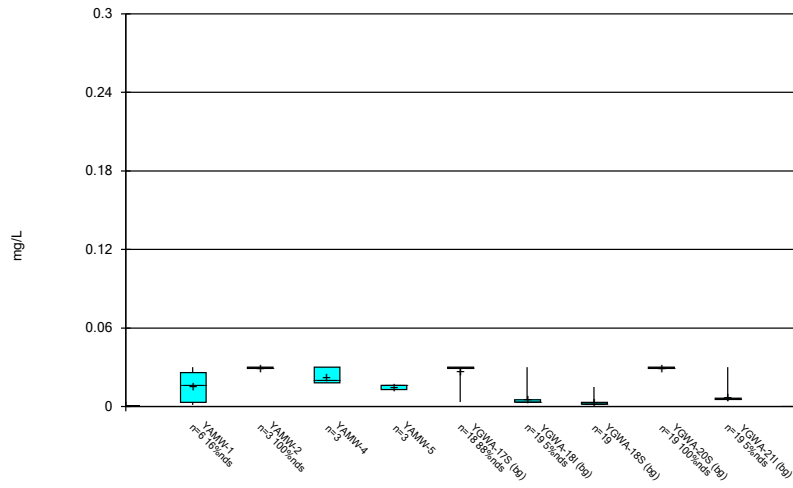
Constituent: Lead Analysis Run 5/6/2021 8:38 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



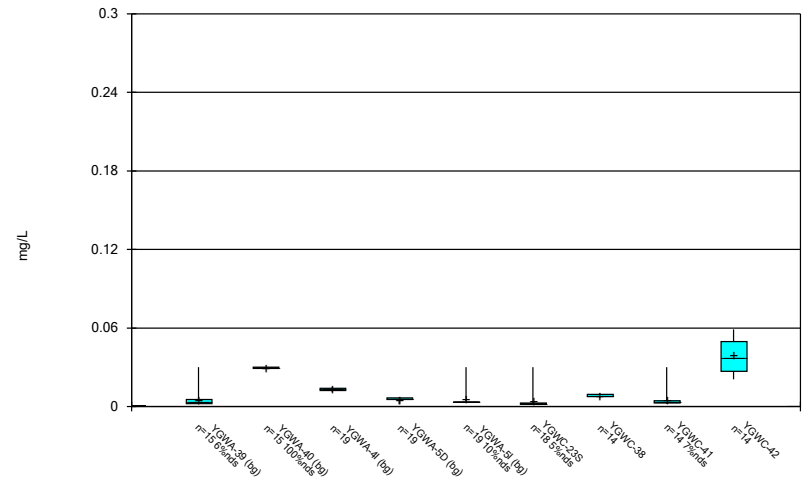
Constituent: Lead Analysis Run 5/6/2021 8:38 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



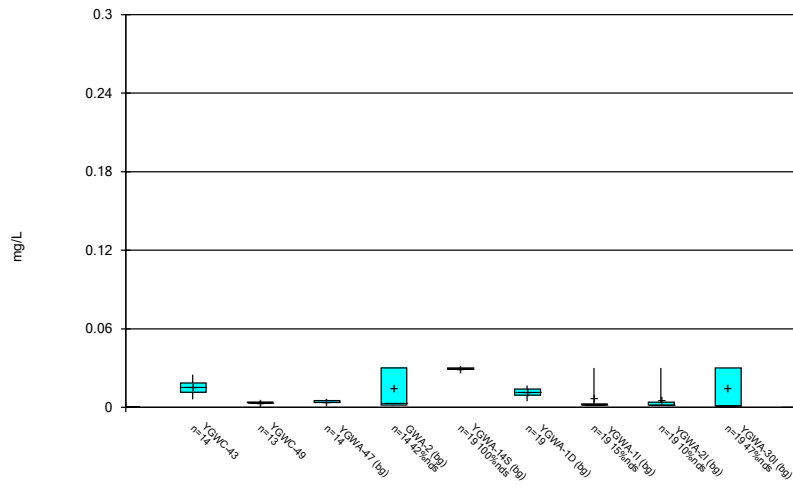
Constituent: Lithium Analysis Run 5/6/2021 8:38 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



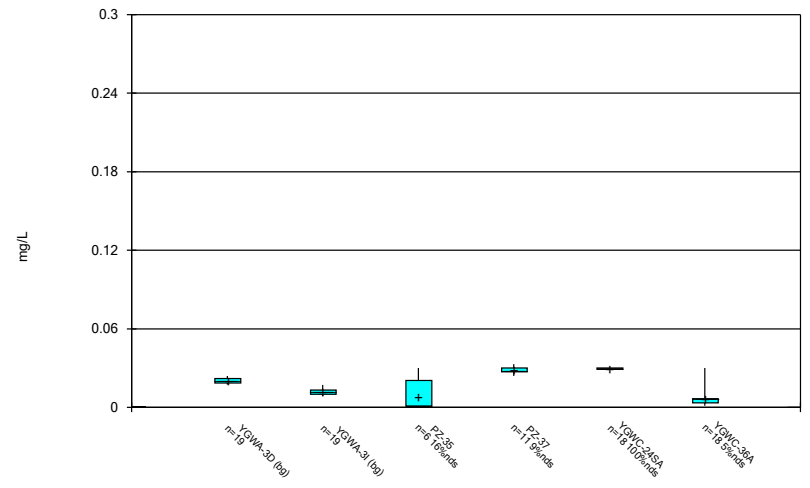
Constituent: Lithium Analysis Run 5/6/2021 8:38 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



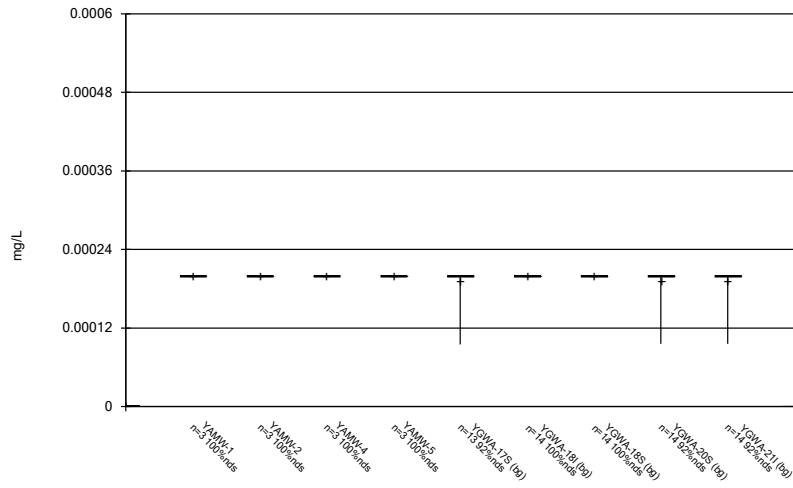
Constituent: Lithium Analysis Run 5/6/2021 8:38 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



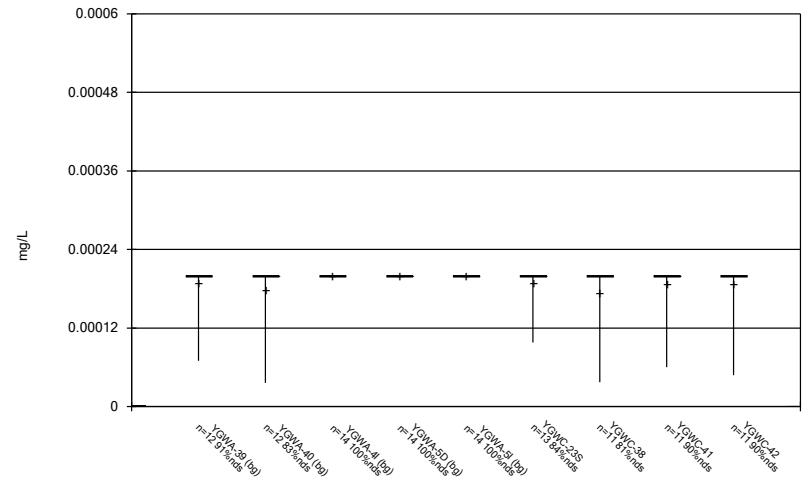
Constituent: Lithium Analysis Run 5/6/2021 8:38 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



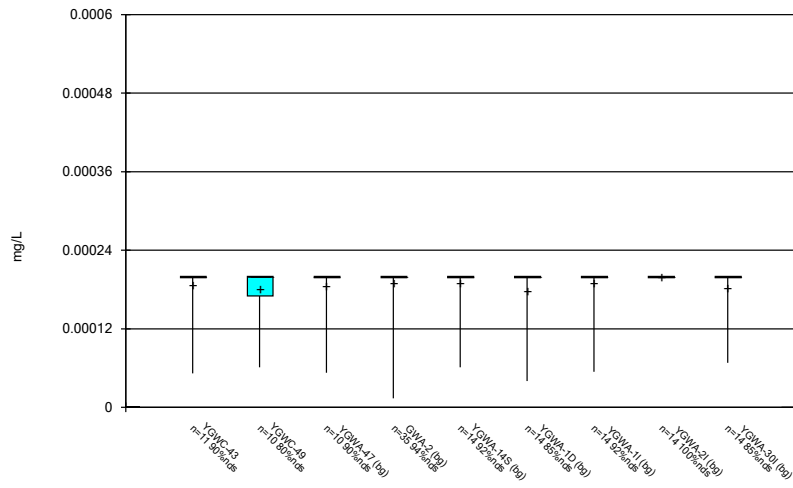
Constituent: Mercury Analysis Run 5/6/2021 8:38 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



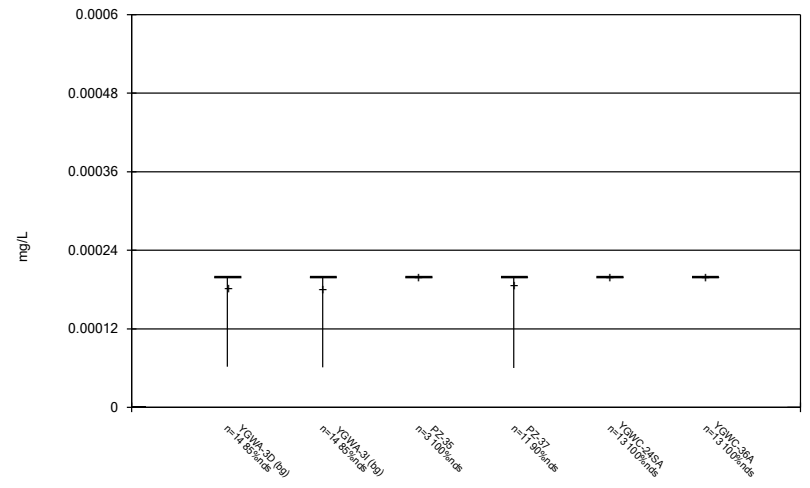
Constituent: Mercury Analysis Run 5/6/2021 8:38 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



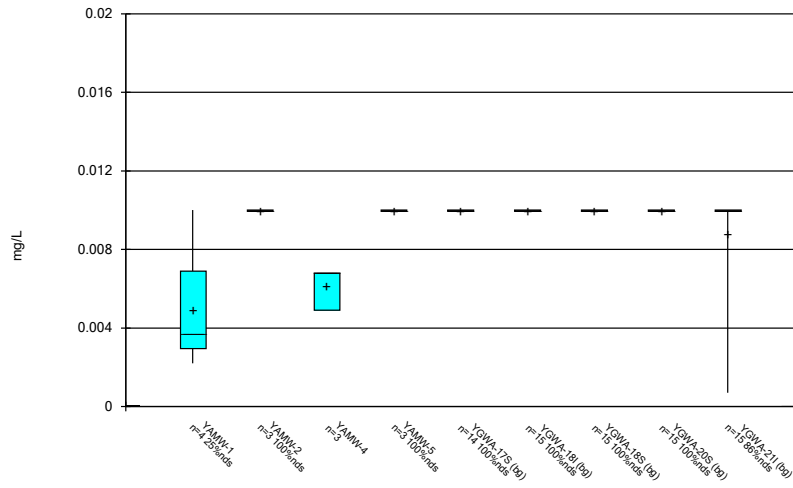
Constituent: Mercury Analysis Run 5/6/2021 8:38 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



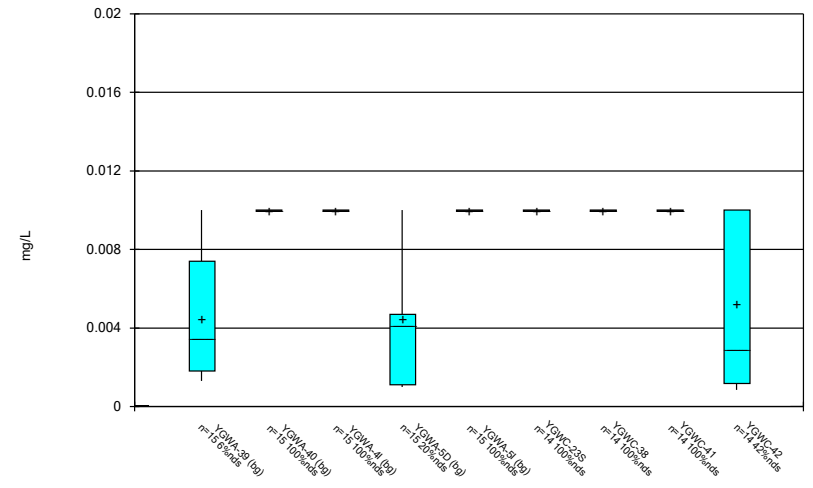
Constituent: Mercury Analysis Run 5/6/2021 8:38 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



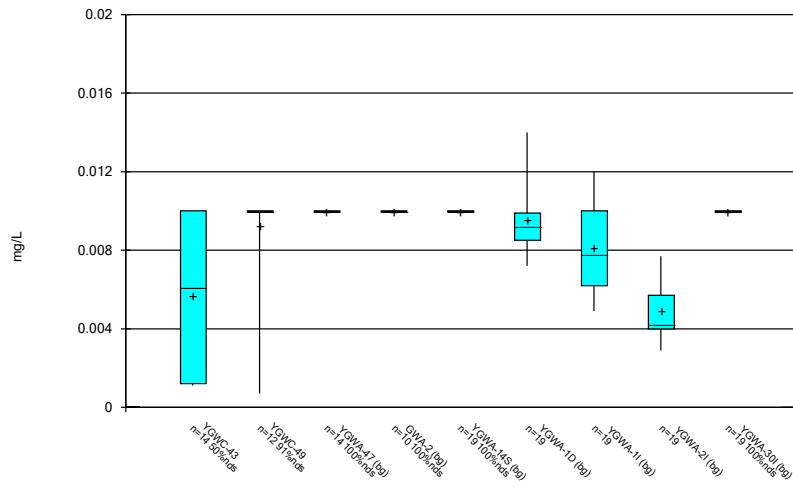
Constituent: Molybdenum Analysis Run 5/6/2021 8:38 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



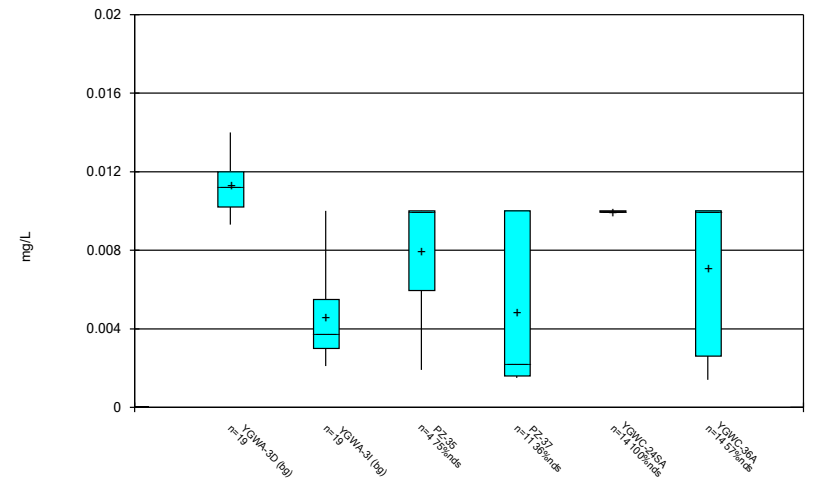
Constituent: Molybdenum Analysis Run 5/6/2021 8:38 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



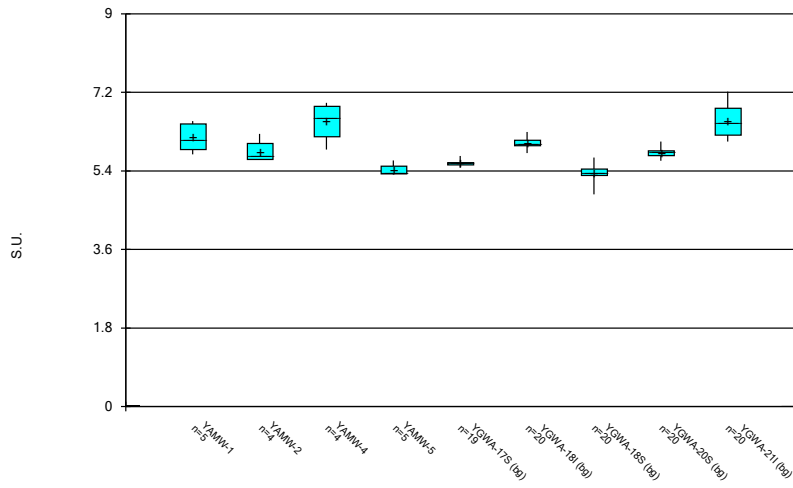
Constituent: Molybdenum Analysis Run 5/6/2021 8:38 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



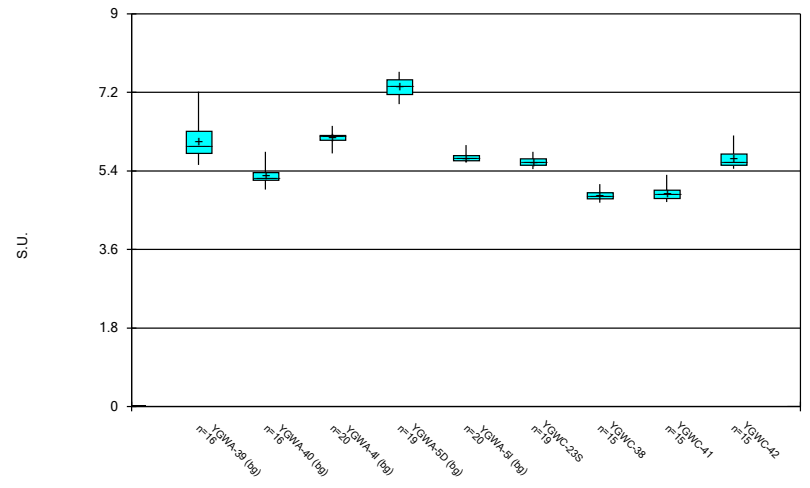
Constituent: Molybdenum Analysis Run 5/6/2021 8:38 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



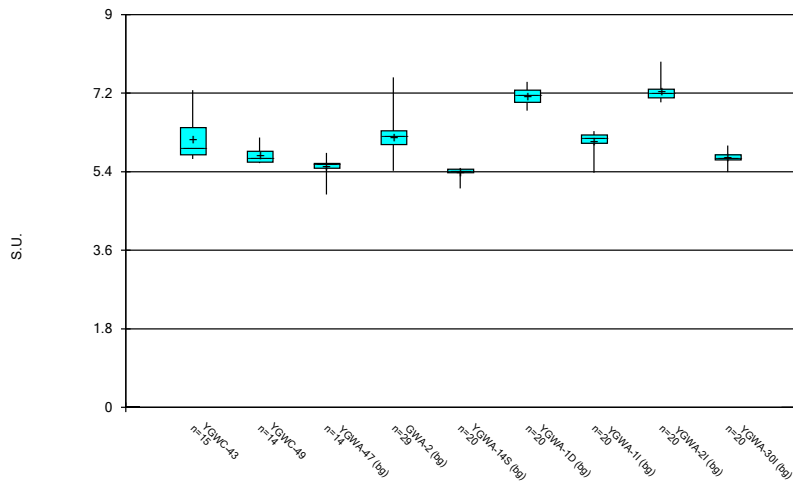
Constituent: pH Analysis Run 5/6/2021 8:38 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



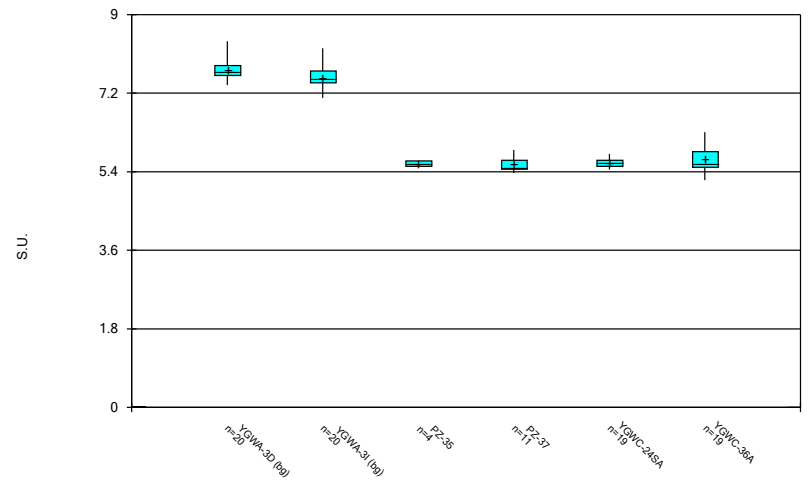
Constituent: pH Analysis Run 5/6/2021 8:38 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



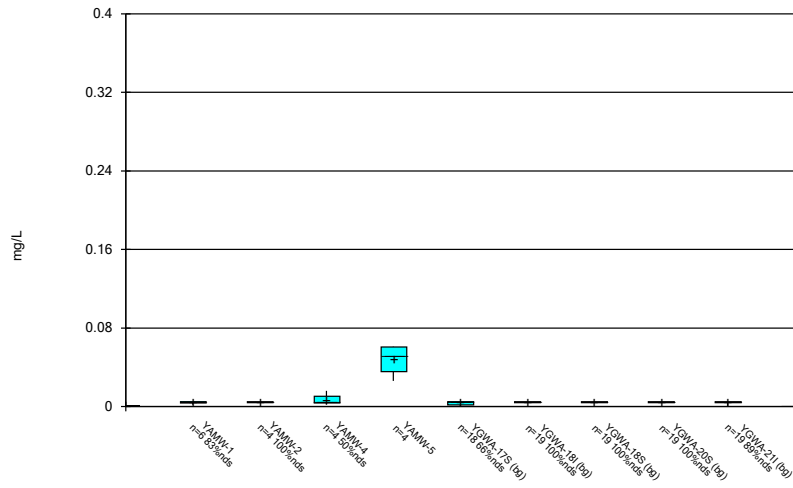
Constituent: pH Analysis Run 5/6/2021 8:38 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



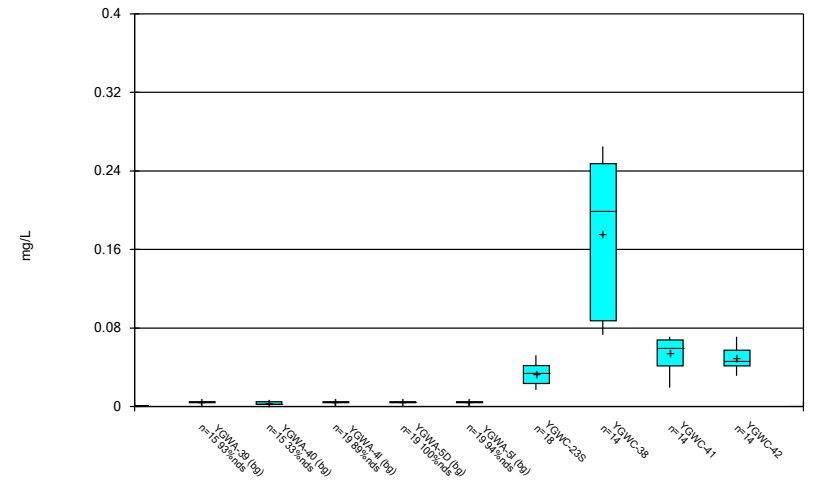
Constituent: pH Analysis Run 5/6/2021 8:38 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



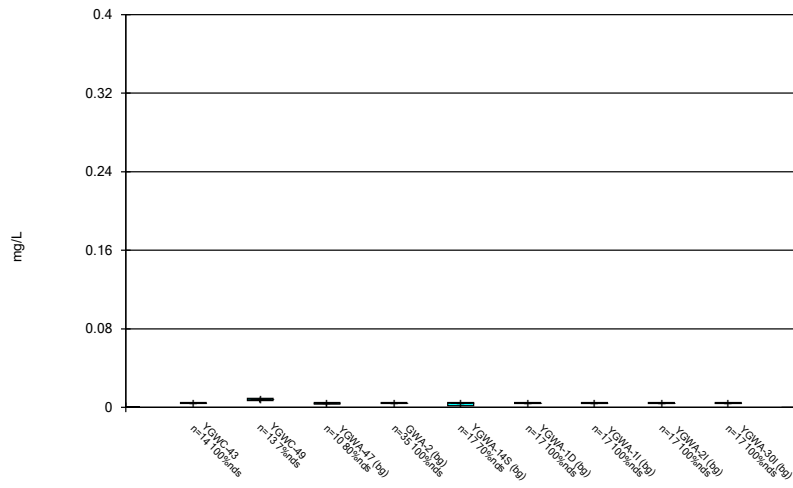
Constituent: Selenium Analysis Run 5/6/2021 8:38 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



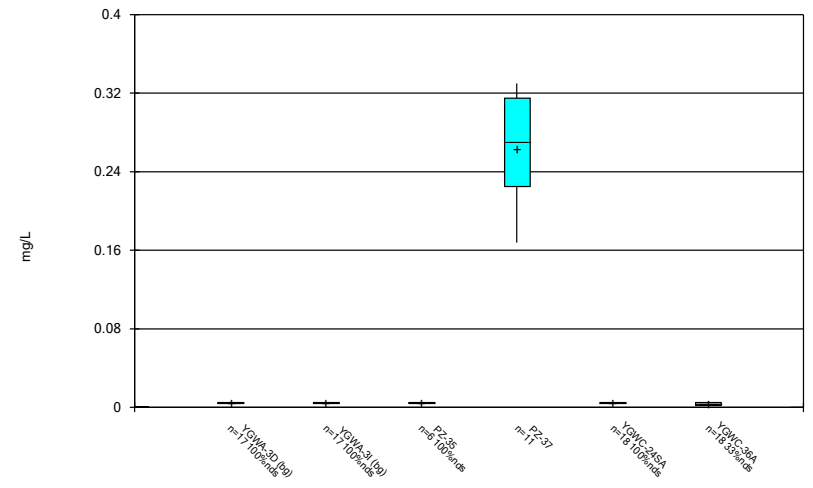
Constituent: Selenium Analysis Run 5/6/2021 8:38 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



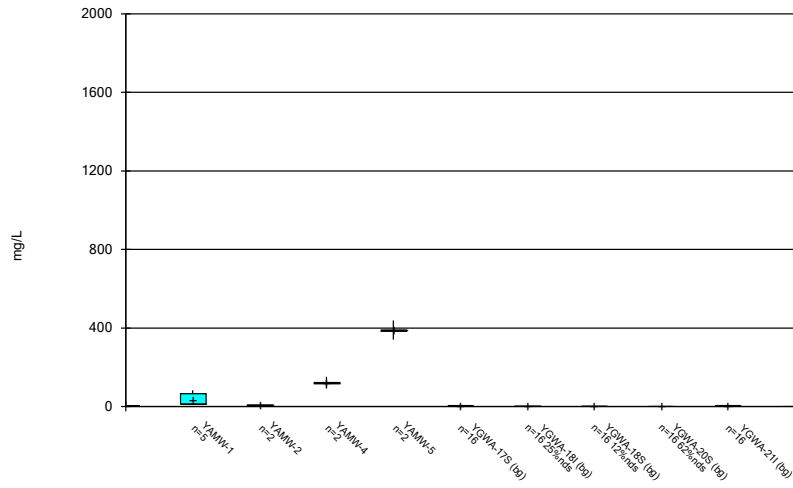
Constituent: Selenium Analysis Run 5/6/2021 8:38 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



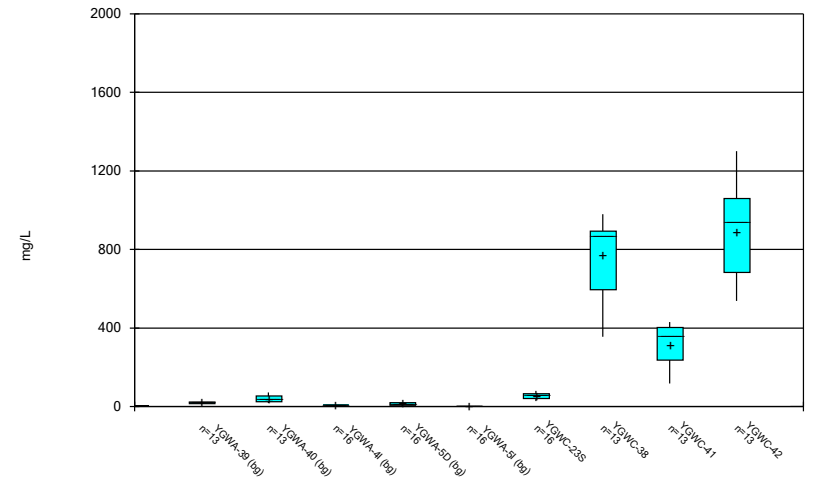
Constituent: Selenium Analysis Run 5/6/2021 8:38 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



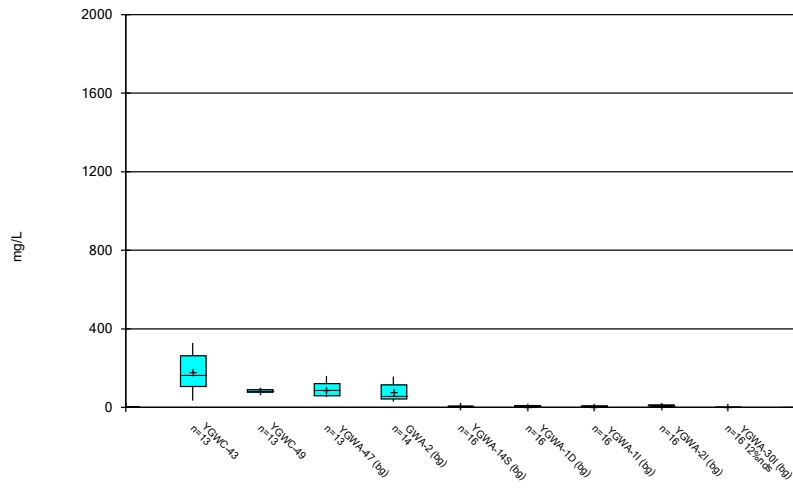
Constituent: Sulfate Analysis Run 5/6/2021 8:38 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



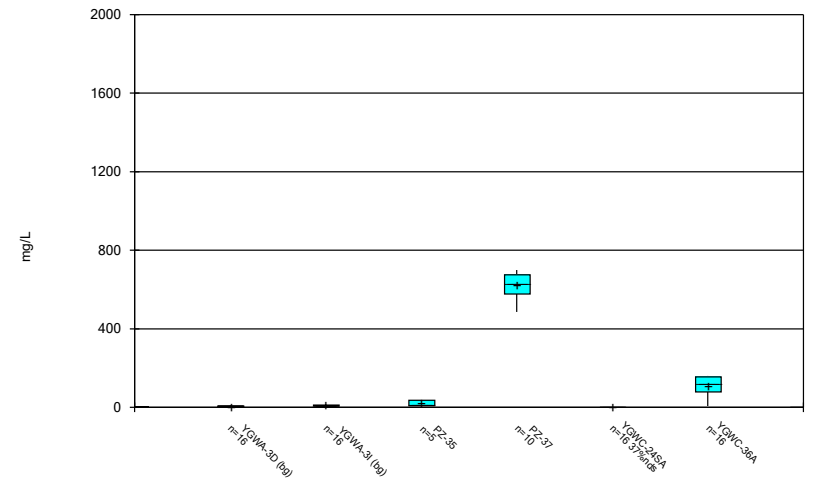
Constituent: Sulfate Analysis Run 5/6/2021 8:38 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



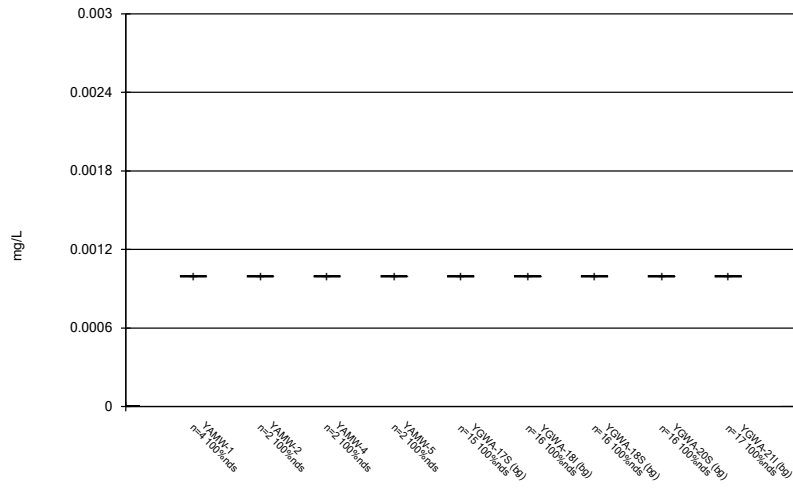
Constituent: Sulfate Analysis Run 5/6/2021 8:38 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



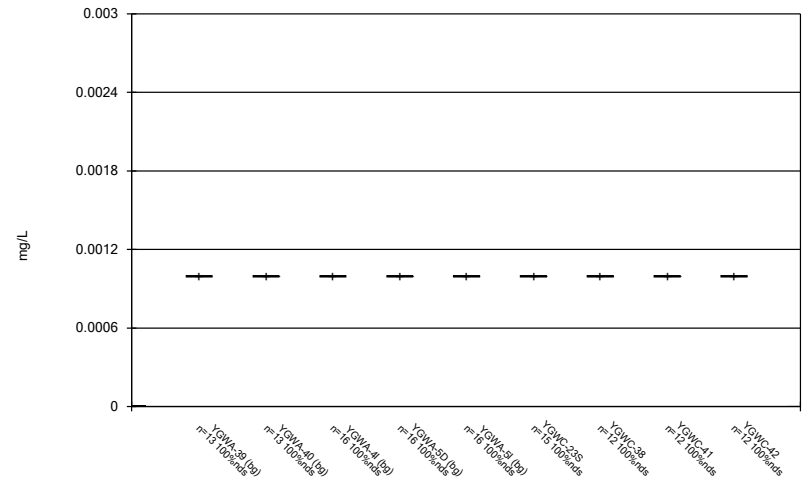
Constituent: Sulfate Analysis Run 5/6/2021 8:38 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



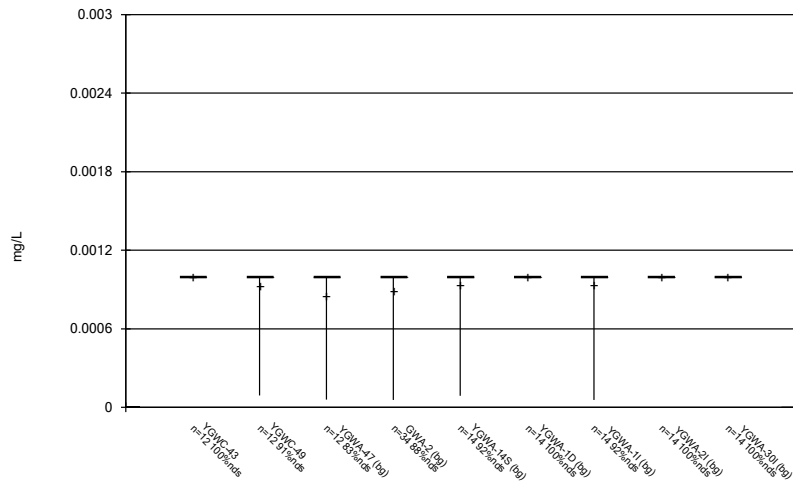
Constituent: Thallium Analysis Run 5/6/2021 8:38 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



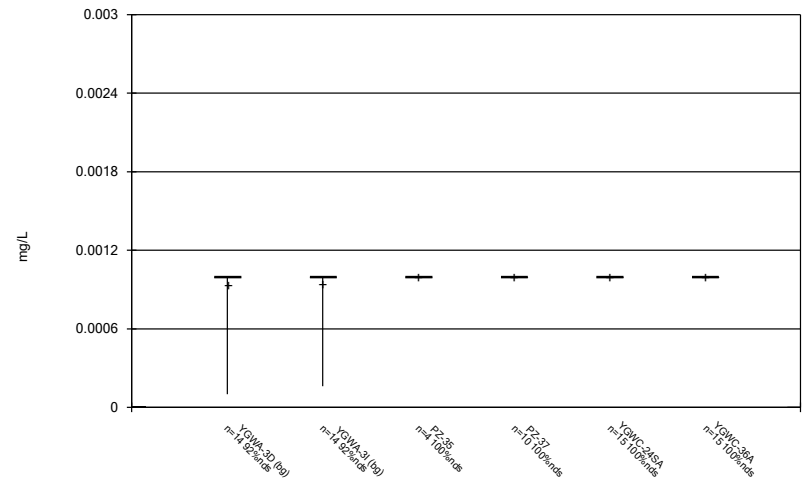
Constituent: Thallium Analysis Run 5/6/2021 8:38 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



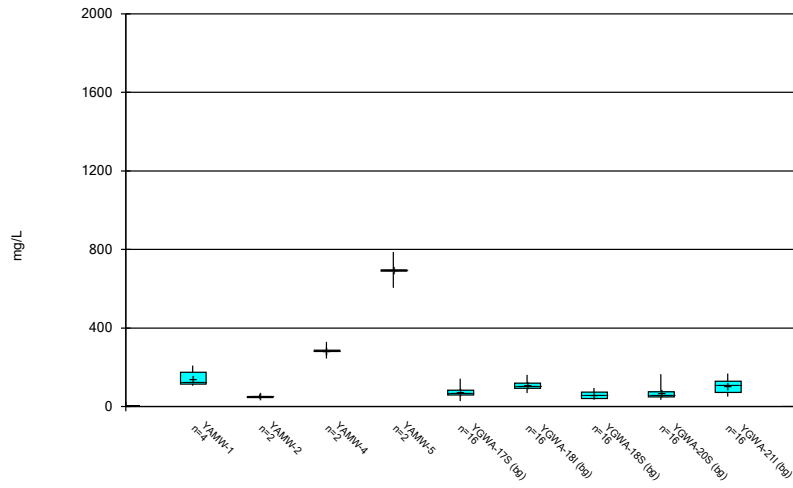
Constituent: Thallium Analysis Run 5/6/2021 8:38 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



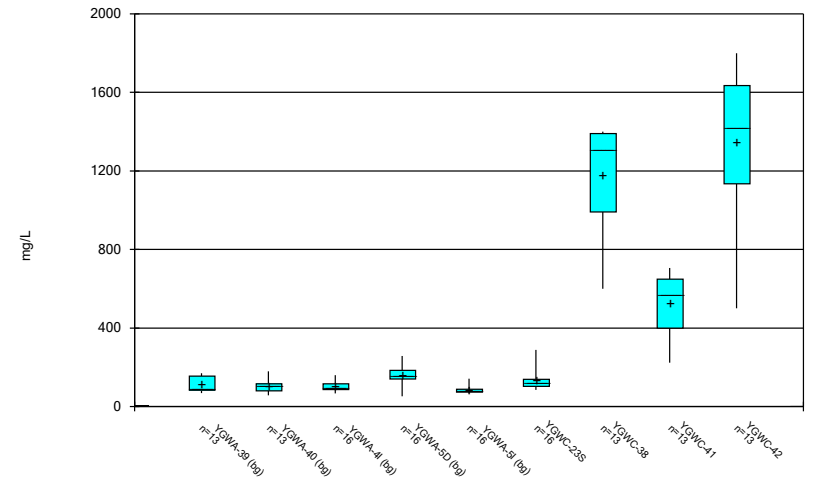
Constituent: Thallium Analysis Run 5/6/2021 8:38 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



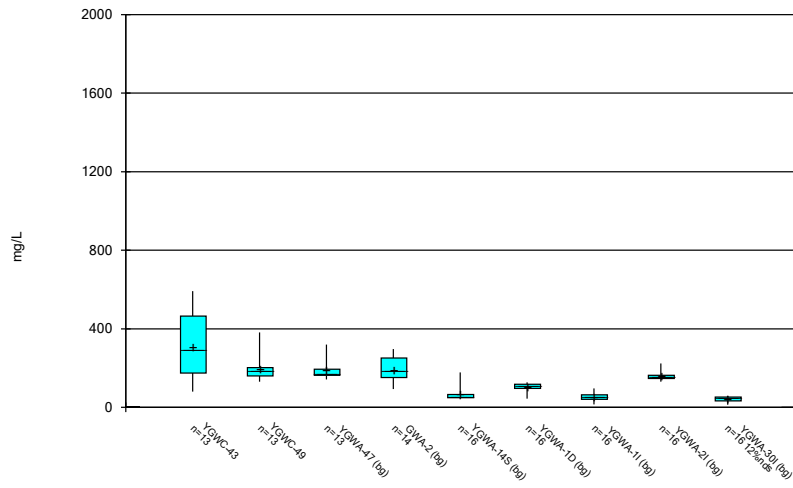
Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:38 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



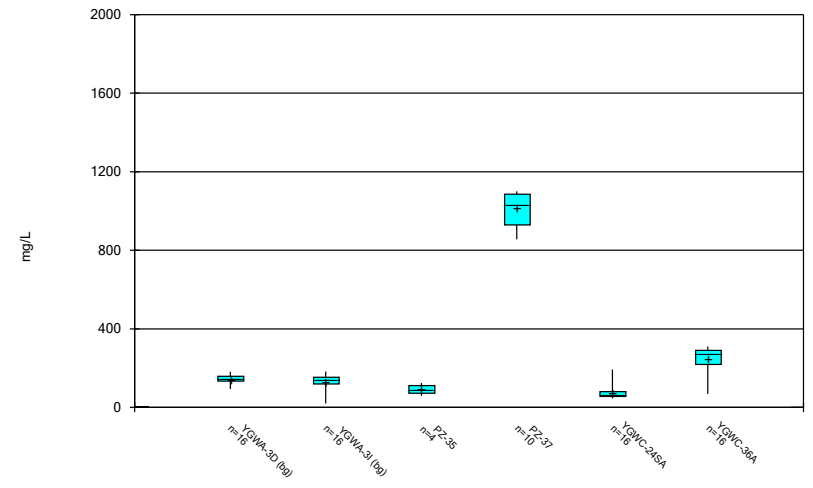
Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:38 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:38 PM
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:38 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 5/6/2021, 8:40 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)	

FIGURE D.

Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/6/2021, 8:46 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	3/4/2021	1.2	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-38	0.16	n/a	3/4/2021	6.4	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-41	0.16	n/a	3/4/2021	4	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-42	0.16	n/a	3/4/2021	14.8	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-43	0.16	n/a	3/4/2021	3.6	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-38	37	n/a	3/4/2021	87	Yes	293	n/a	n/a	1.024	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-42	37	n/a	3/4/2021	90.7	Yes	293	n/a	n/a	1.024	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-24SA	7.9	n/a	3/3/2021	8.6	Yes	293	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-41	8.39	4.86	3/4/2021	4.69	Yes	373	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-38	160	n/a	3/4/2021	356	Yes	293	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-42	160	n/a	3/4/2021	537	Yes	293	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-43	160	n/a	3/4/2021	328	Yes	293	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-38	221.5	n/a	3/4/2021	600	Yes	293	10.01	2.574	0.6826	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-41	221.5	n/a	3/4/2021	224	Yes	293	10.01	2.574	0.6826	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-42	221.5	n/a	3/4/2021	501	Yes	293	10.01	2.574	0.6826	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-43	221.5	n/a	3/4/2021	592	Yes	293	10.01	2.574	0.6826	None	sqrt(x)	0.0009403	Param Inter 1 of 2

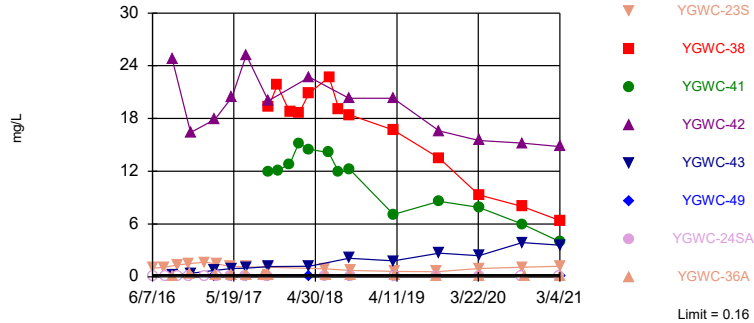
Appendix III Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/6/2021, 8:46 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	3/4/2021	1.2	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-38	0.16	n/a	3/4/2021	6.4	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-41	0.16	n/a	3/4/2021	4	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-42	0.16	n/a	3/4/2021	14.8	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-43	0.16	n/a	3/4/2021	3.6	Yes	293	n/a	n/a	45.73	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-49	0.16	n/a	3/4/2021	0.04ND	No	293	n/a	n/a	45.73	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-24SA	0.16	n/a	3/3/2021	0.04ND	No	293	n/a	n/a	45.73	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-36A	0.16	n/a	3/4/2021	0.0088J	No	293	n/a	n/a	45.73	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-23S	37	n/a	3/4/2021	10.2	No	293	n/a	n/a	1.024	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-38	37	n/a	3/4/2021	87	Yes	293	n/a	n/a	1.024	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-41	37	n/a	3/4/2021	16.4	No	293	n/a	n/a	1.024	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-42	37	n/a	3/4/2021	90.7	Yes	293	n/a	n/a	1.024	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-43	37	n/a	3/4/2021	32.2	No	293	n/a	n/a	1.024	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-49	37	n/a	3/4/2021	13	No	293	n/a	n/a	1.024	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-24SA	37	n/a	3/3/2021	2.4	No	293	n/a	n/a	1.024	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-36A	37	n/a	3/4/2021	5.6	No	293	n/a	n/a	1.024	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-23S	7.9	n/a	3/4/2021	1.8	No	293	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-38	7.9	n/a	3/4/2021	3.9	No	293	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-41	7.9	n/a	3/4/2021	3.4	No	293	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-42	7.9	n/a	3/4/2021	2.7	No	293	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-43	7.9	n/a	3/4/2021	2.1	No	293	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-49	7.9	n/a	3/4/2021	4.1	No	293	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-24SA	7.9	n/a	3/3/2021	8.6	Yes	293	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-36A	7.9	n/a	3/4/2021	6.6	No	293	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Fluoride (mg/L)	YGWC-23S	0.68	n/a	3/4/2021	0.1ND	No	362	n/a	n/a	68.51	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-38	0.68	n/a	3/4/2021	0.1ND	No	362	n/a	n/a	68.51	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-41	0.68	n/a	3/4/2021	0.1ND	No	362	n/a	n/a	68.51	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-42	0.68	n/a	3/4/2021	0.1ND	No	362	n/a	n/a	68.51	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-43	0.68	n/a	3/4/2021	0.063J	No	362	n/a	n/a	68.51	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-49	0.68	n/a	3/4/2021	0.1ND	No	362	n/a	n/a	68.51	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-24SA	0.68	n/a	3/3/2021	0.1ND	No	362	n/a	n/a	68.51	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-36A	0.68	n/a	3/4/2021	0.1ND	No	362	n/a	n/a	68.51	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
pH (S.U.)	YGWC-23S	8.39	4.86	3/4/2021	5.44	No	373	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-38	8.39	4.86	3/4/2021	5.01	No	373	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-41	8.39	4.86	3/4/2021	4.69	Yes	373	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-42	8.39	4.86	3/4/2021	5.59	No	373	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-43	8.39	4.86	3/4/2021	5.88	No	373	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-49	8.39	4.86	3/4/2021	5.88	No	373	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-24SA	8.39	4.86	3/3/2021	5.7	No	373	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-36A	8.39	4.86	3/4/2021	5.67	No	373	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-23S	160	n/a	3/4/2021	61.7	No	293	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-38	160	n/a	3/4/2021	356	Yes	293	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-41	160	n/a	3/4/2021	117	No	293	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-42	160	n/a	3/4/2021	537	Yes	293	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-43	160	n/a	3/4/2021	328	Yes	293	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-49	160	n/a	3/4/2021	75.1	No	293	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-24SA	160	n/a	3/3/2021	0.5ND	No	293	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-36A	160	n/a	3/4/2021	6.3	No	293	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-23S	221.5	n/a	3/4/2021	96	No	293	10.01	2.574	0.6826	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-38	221.5	n/a	3/4/2021	600	Yes	293	10.01	2.574	0.6826	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-41	221.5	n/a	3/4/2021	224	Yes	293	10.01	2.574	0.6826	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-42	221.5	n/a	3/4/2021	501	Yes	293	10.01	2.574	0.6826	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-43	221.5	n/a	3/4/2021	592	Yes	293	10.01	2.574	0.6826	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-49	221.5	n/a	3/4/2021	145	No	293	10.01	2.574	0.6826	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-24SA	221.5	n/a	3/3/2021	70	No	293	10.01	2.574	0.6826	None	sqrt(x)	0.0009403	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-36A	221.5	n/a	3/4/2021	69	No	293	10.01	2.574	0.6826	None	sqrt(x)	0.0009403	Param Inter 1 of 2

Exceeds Limit: YGWC-23S, YGWC-38,
YGWC-41, YGWC-42, YGWC-43

Prediction Limit
Interwell Non-parametric

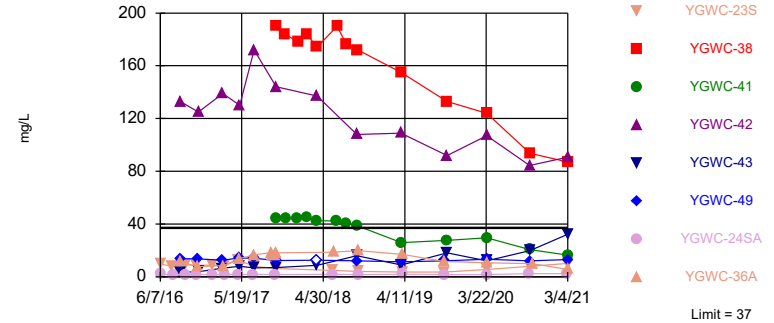


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 293 background values. 45.73% NDs. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

Constituent: Boron Analysis Run 5/6/2021 8:43 PM View: Appendix III
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Exceeds Limit: YGWC-38, YGWC-42

Prediction Limit
Interwell Non-parametric

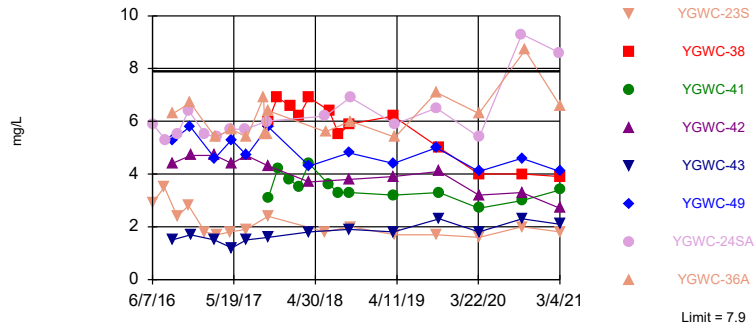


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 293 background values. 1.024% NDs. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

Constituent: Calcium Analysis Run 5/6/2021 8:43 PM View: Appendix III
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Exceeds Limit: YGWC-24SA

Prediction Limit
Interwell Non-parametric

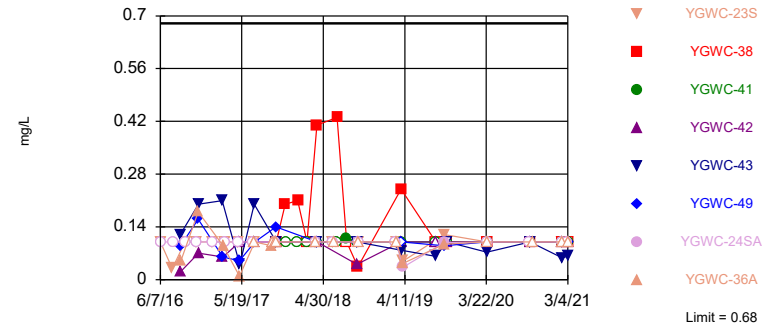


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 293 background values. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

Constituent: Chloride Analysis Run 5/6/2021 8:43 PM View: Appendix III
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Within Limit

Prediction Limit
Interwell Non-parametric

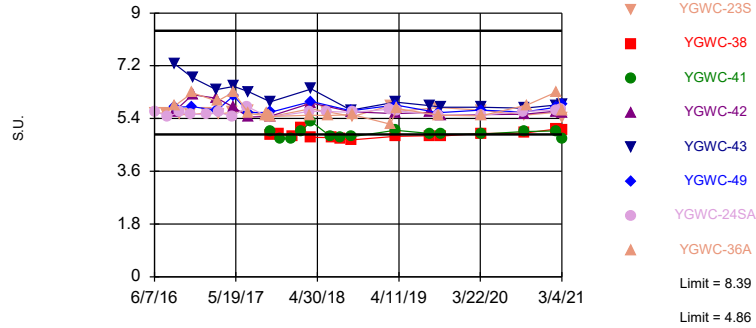


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 362 background values. 68.51% NDs. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

Constituent: Fluoride Analysis Run 5/6/2021 8:43 PM View: Appendix III
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Exceeds Limits: YGWC-41

Prediction Limit
Interwell Non-parametric

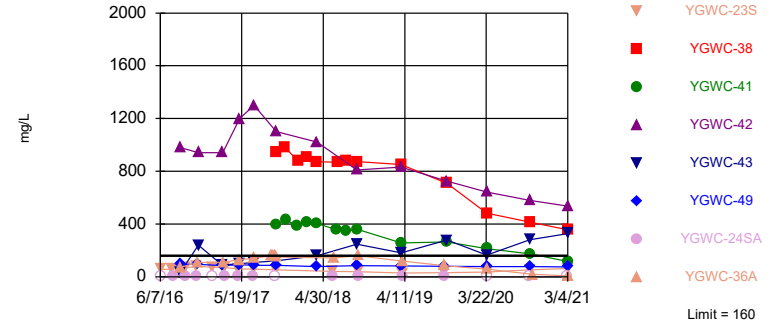


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 373 background values. Annual per-constituent alpha = 0.001573. Individual comparison alpha = 0.00009834 (1 of 2). Comparing 8 points to limit.

Constituent: pH Analysis Run 5/6/2021 8:43 PM View: Appendix III
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Hollow symbols indicate censored values.
Exceeds Limit: YGWC-38, YGWC-42, YGWC-43

Prediction Limit
Interwell Non-parametric

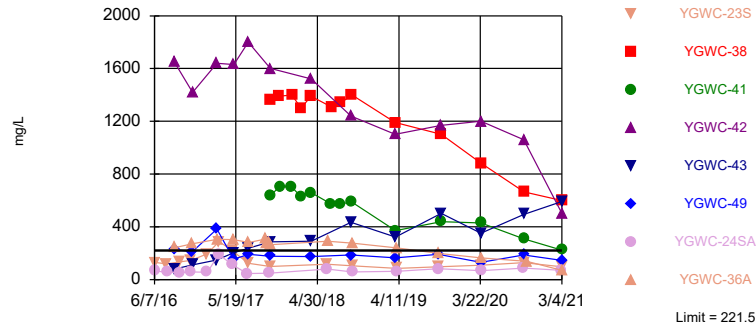


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 293 background values. 6.143% NDs. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

Constituent: Sulfate Analysis Run 5/6/2021 8:43 PM View: Appendix III
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Exceeds Limit: YGWC-38, YGWC-41, YGWC-42, YGWC-43

Prediction Limit
Interwell Parametric



Background Data Summary (based on square root transformation): Mean=10.01, Std. Dev.=2.574, n=293, 0.6826% NDs. Normality test: Chi Squared @alpha = 0.01, calculated = 12.97, 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 5/6/2021 8:43 PM View: Appendix III
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)
6/1/2016	<0.04	<0.04	<0.04						
6/2/2016				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	<0.04		<0.04				<0.04		
7/26/2016		0.0055 (J)		0.0052 (J)	0.0177 (J)	0.0097 (J)		<0.04	0.0047 (J)
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016		<0.04	<0.04						
9/14/2016	<0.04			0.0071 (J)				0.01 (J)	<0.04
9/15/2016					0.0214 (J)	0.0102 (J)			
9/16/2016									
9/19/2016							<0.04		
9/20/2016									
11/1/2016	<0.04	0.0086 (J)				<0.04	<0.04		
11/2/2016				<0.04	<0.04				<0.04
11/3/2016									
11/4/2016			<0.04				<0.04		
11/8/2016									
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017					0.0198 (J)				
1/11/2017	<0.04	0.0074 (J)				<0.04			
1/12/2017				0.0076 (J)				<0.04	
1/13/2017									<0.04
1/16/2017			<0.04				<0.04		
1/17/2017									
2/21/2017							<0.04		
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017	<0.04								
3/2/2017		0.008 (J)	<0.04			0.0084 (J)			
3/3/2017									
3/6/2017									<0.04
3/7/2017				0.0089 (J)			<0.04		
3/8/2017					0.0189 (J)				
3/9/2017									
4/26/2017	<0.04				0.0161 (J)	<0.04	<0.04		
4/27/2017		0.0066 (J)	<0.04						
4/28/2017									
5/1/2017				0.0061 (J)					<0.04

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)
5/2/2017								<0.04	
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		0.0087 (J)	0.006 (J)	0.0079 (J)				<0.04	
6/28/2017	<0.04					<0.04			
6/29/2017									<0.04
6/30/2017					0.0173 (J)		<0.04		
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017		0.0072 (J)	0.0071 (J)	0.0094 (J)				<0.04	
10/4/2017	<0.04					<0.04	<0.04		
10/5/2017					0.0173 (J)				<0.04
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018		0.0052 (J)							
6/6/2018			<0.04	0.0098 (J)					
6/7/2018						0.004 (J)		<0.04	0.0045 (J)
6/8/2018	<0.04				0.013 (J)				
6/11/2018							0.014 (J)		
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									
9/25/2018									
9/26/2018				0.01 (J)				0.0057 (J)	0.005 (J)
9/27/2018									
10/1/2018	<0.04	0.021 (J)	0.0049 (J)		0.015 (J)	<0.04			

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWC-23S	YGWA-211 (bg)	YGWA-20S (bg)	YGWA-17S (bg)	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				0.011 (J)			0.0066 (J)		
4/3/2019	<0.04	0.0053 (J)			<0.04				
4/4/2019			0.6				<0.04		
6/12/2019									
9/24/2019				0.018 (J)					
9/25/2019					<0.04	0.0081 (J)			
9/26/2019	0.0062 (J)	0.0072 (J)					0.0068 (J)		
9/27/2019			0.58						
10/8/2019								0.012 (J)	
10/9/2019									16.6
3/17/2020								0.023 (J)	
3/18/2020									
3/19/2020									
3/24/2020	0.0054 (J)	0.01 (J)		0.016 (J)	<0.04	0.0092 (J)			
3/25/2020									15.5
3/26/2020			0.94				0.033 (J)		
9/22/2020								0.0076 (J)	
9/23/2020	0.021 (J)	0.006 (J)				0.0066 (J)	<0.04		
9/24/2020			1.1	0.013 (J)	0.0094 (J)				15.2
9/25/2020									
10/7/2020									
3/1/2021								0.013 (J)	
3/2/2021									
3/3/2021	<0.04	0.0094 (J)			<0.04	0.01 (J)	<0.04		
3/4/2021			1.2	0.0079 (J)					14.8

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
5/2/2017									
5/8/2017	0.0084 (J)								
5/9/2017			<0.04	0.233					
5/10/2017		0.955							
5/26/2017					<0.04				
6/27/2017									
6/28/2017					<0.04				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017		0.994							
7/13/2017			0.0093 (J)	0.262					
7/17/2017	0.0092 (J)								
9/22/2017				0.238					
9/29/2017				0.235					
10/3/2017					<0.04				
10/4/2017									
10/5/2017									
10/6/2017				0.256					
10/10/2017									
10/11/2017			<0.04	0.245		0.0135 (J)			
10/12/2017		1.15					19.3	12	0.0401
10/16/2017	<0.04								
11/20/2017						0.0251 (J)	21.8		0.156
11/21/2017								12.1	
1/10/2018									0.15
1/11/2018						0.0255 (J)		12.8	
1/12/2018							18.7		
2/19/2018	<0.04							15.2	0.146
2/20/2018						<0.04	18.6		
4/2/2018									
4/3/2018						0.033 (J)	20.9	14.5	0.12
4/4/2018		1.2	0.0041 (J)						
6/5/2018									
6/6/2018									
6/7/2018					<0.04				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				0.25					
6/27/2018								14.1	
6/28/2018						0.053	22.7		0.16
8/6/2018	<0.04								
8/7/2018						0.024 (J)	19.1	11.9	0.12
9/19/2018									
9/20/2018		2.1	0.0042 (J)						
9/24/2018						0.028 (J)	18.4	12.2	0.099
9/25/2018									
9/26/2018				0.24					
9/27/2018									
10/1/2018					<0.04				

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
10/2/2018									
2/25/2019	<0.04								
3/26/2019									0.096
3/27/2019						0.017 (J)	16.7		
3/28/2019		1.8	<0.04					7.1	
3/29/2019					0.0065 (J)				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				0.22					
6/12/2019	<0.04								
9/24/2019					0.0076 (J)				
9/25/2019									
9/26/2019			<0.04	0.13					
9/27/2019									
10/8/2019	<0.04								
10/9/2019		2.7				0.017 (J)	13.5	8.6	0.079
3/17/2020	0.0051 (J)								
3/18/2020									
3/19/2020					0.0073 (J)				
3/24/2020									0.088 (J)
3/25/2020		2.4	0.012 (J)	0.11		0.043 (J)	9.3	7.9	
3/26/2020									
9/22/2020	0.0079 (J)								
9/23/2020					<0.04				
9/24/2020			0.062 (J)			0.037 (J)			0.087 (J)
9/25/2020		3.9					8	6	
10/7/2020				0.018 (J)					
3/1/2021									
3/2/2021	<0.04								
3/3/2021					<0.04				
3/4/2021		3.6	<0.04	0.0088 (J)		0.033 (J)	6.4	4	0.078

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)
6/1/2016	21	12	2.5						
6/2/2016				33	1.3	28	1.3	2.4	8.8
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	20.3		2.16				1.17		
7/26/2016		11		32.3	1.24	24.5		2.12	7.69
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016		11.8	2.21						
9/14/2016	19.7			31				2.18	8.49
9/15/2016					1.17	27			
9/16/2016									
9/19/2016							1.05		
9/20/2016									
11/1/2016	18.4	11				25.6	1.14		
11/2/2016				30.9	1.23				7.83
11/3/2016									
11/4/2016			2.67					2.17 (J)	
11/8/2016									
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017					1.24				
1/11/2017	20.3	11.2				27.5			
1/12/2017				35.7				2.37	
1/13/2017									8.08
1/16/2017			2.45				1.23		
1/17/2017									
2/21/2017							1.25		
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017	18.6								
3/2/2017		11	2.57			27.5			
3/3/2017									
3/6/2017									8.64
3/7/2017				32.7				2.34	
3/8/2017					1.21				
3/9/2017									
4/26/2017	25.6				1.14	30.4	1.03		
4/27/2017		11.1	2.38						
4/28/2017									
5/1/2017				37					13.4

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)
5/2/2017								2.17	
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		13.8	2.36	36.5				2.13	
6/28/2017	23.9					29.8			
6/29/2017									8.81
6/30/2017					1.24		1.13		
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017		14	2.21	30.9				2.15	
10/4/2017	22.1					29.7	1.09		
10/5/2017					1.11				9.29
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018		15.2 (J)							
6/6/2018			2.3	26.2					
6/7/2018						29.1		2.3	8.2
6/8/2018	21.9 (J)				1.1				
6/11/2018							1.1		
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									
9/25/2018									
9/26/2018				25.8				2.3	9.5 (J)
9/27/2018									
10/1/2018	19.7	15.1	1.8		0.99	26.9			

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWC-23S	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	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				8.8		2.5			
4/3/2019	5.3	1.2			2.9				
4/4/2019			3.7				1.9		
6/12/2019									
9/24/2019				7.7					
9/25/2019					2.4	2.6			
9/26/2019	4.9	1.1					1.7		
9/27/2019			3.7						
10/8/2019								9.7	
10/9/2019									92
3/17/2020								14.8	
3/18/2020									
3/19/2020									
3/24/2020	5.3	1		6	2.6	2.7			
3/25/2020									107
3/26/2020			5.6				1.7		
9/22/2020								10.1	
9/23/2020	5.2	0.91 (J)				2.6	2.4		
9/24/2020			7.9	7.8	2.6				84.3
9/25/2020									
10/7/2020									
3/1/2021								10.3	
3/2/2021									
3/3/2021	5.2	0.96 (J)			2.4	2.5	2.4		
3/4/2021			10.2	8.7					90.7

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
5/2/2017									
5/8/2017	14.2								
5/9/2017			14.4	13.9					
5/10/2017		7.9							
5/26/2017					26.2				
6/27/2017									
6/28/2017					26.1				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017		6.71							
7/13/2017			14.1	16.6					
7/17/2017	14.1								
9/22/2017				18.4					
9/29/2017				16.1					
10/3/2017					26.7				
10/4/2017									
10/5/2017									
10/6/2017				16.6					
10/10/2017									
10/11/2017			12.4	18.1		2.74			
10/12/2017		7.05					190	44.5	2.9
10/16/2017	13.6								
11/20/2017						1.81	184		10.4
11/21/2017								44.4	
1/10/2018									10.2
1/11/2018						1.54		43.9	
1/12/2018							178		
2/19/2018	<25							45.3	<25
2/20/2018						1.71	184		
4/2/2018									
4/3/2018									
4/4/2018		8.6	<25			1.4	174	42.7	6.3
6/5/2018									
6/6/2018									
6/7/2018					25				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				18.7 (J)					
6/27/2018								42.2	
6/28/2018						1.4	190		6.7
8/6/2018	11.4 (J)								
8/7/2018						1.2	176	40.7	6.3
9/19/2018									
9/20/2018		15.9 (J)	12 (J)						
9/24/2018						1.1	172	38.5	5.7
9/25/2018									
9/26/2018				19.8 (J)					
9/27/2018									
10/1/2018					25				

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
10/2/2018									
2/25/2019	12.7 (J)								
3/26/2019									5.6
3/27/2019						1.5	155		
3/28/2019		8.9	11.3 (J)					26	
3/29/2019					23.5 (J)				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				16.9 (J)					
6/12/2019	18.9								
9/24/2019					26.4				
9/25/2019									
9/26/2019			12.1	11.7					
9/27/2019									
10/8/2019	28.3								
10/9/2019		18.2				2.4	133	27.6	4.9
3/17/2020	24.3								
3/18/2020									
3/19/2020					27.4				
3/24/2020									4.8
3/25/2020		12.1	13.2	10.6		2.7	124	29.6	
3/26/2020									
9/22/2020	31								
9/23/2020					26.3				
9/24/2020			12			3.7			4.4
9/25/2020		19.8					93.7	20.5	
10/7/2020				9.9					
3/1/2021									
3/2/2021	34.2								
3/3/2021					25.6				
3/4/2021		32.2	13	5.6		8.2	87	16.4	4.6

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)
6/1/2016	1.3	1.3	1.6						
6/2/2016				7.2	4.1	1.4	1.9	4.3	3.7
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	1.3		1.4				1.7		
7/26/2016		1.2		6.6	4	1.6		4.4	3.6
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016		1.1	1.3						
9/14/2016	1.3			6.6				3.8	3.4
9/15/2016					4.2	1.5			
9/16/2016									
9/19/2016							1.6		
9/20/2016									
11/1/2016	1.4	1.3				1.7	1.8		
11/2/2016				7.6	4.9				4.5
11/3/2016									
11/4/2016			1.6				4.8		
11/8/2016									
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017					4.1				
1/11/2017	1.1	1.1				1.2			
1/12/2017				6.8				3.8	
1/13/2017									4.2
1/16/2017			1.4				1.7		
1/17/2017									
2/21/2017							1.7		
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017	1.1								
3/2/2017		1	1.3			1.2			
3/3/2017									
3/6/2017									3.6
3/7/2017				6.8			4.5		
3/8/2017					4.2				
3/9/2017									
4/26/2017	1.1				4.1	1.2	1.7		
4/27/2017		1	1.3						
4/28/2017									
5/1/2017				7.2					4.3

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)
5/2/2017								4.6	
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		1.1	1.4	7				4.3	
6/28/2017	1.2					1.3			
6/29/2017									4.2
6/30/2017					3.7		1.8		
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017		1.1	1.7	6.5				4.2	
10/4/2017	1.2					1.5	1.8		
10/5/2017					3.8				4.7
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018		1.1							
6/6/2018			1.4	4.7					
6/7/2018						1.2		4.5	4.4
6/8/2018	1.2				3.4				
6/11/2018							2		
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									
9/25/2018									
9/26/2018				4.8				5.1	4.8
9/27/2018									
10/1/2018	1.2	1.1	1.4		3.8	1.5			

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWC-23S	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	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				2.5		4.8			
4/3/2019	6.9	6.3			3.1				
4/4/2019			1.7				5.9		
6/12/2019									
9/24/2019				3.1					
9/25/2019					2.8	5.7			
9/26/2019	7	7.1					6.5		
9/27/2019			1.7						
10/8/2019								4.4	
10/9/2019									4.1
3/17/2020								4.1	
3/18/2020									
3/19/2020									
3/24/2020	7	6.8		2.8	2.7	5			
3/25/2020									3.2
3/26/2020			1.6				5.4		
9/22/2020								4.2	
9/23/2020	7.2	7.2				6.6	9.3		
9/24/2020			2	2	2.7				3.3
9/25/2020									
10/7/2020									
3/1/2021								3.7	
3/2/2021									
3/3/2021	7	7.2			2.7	7.1	8.6		
3/4/2021			1.8	1.8					2.7

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
5/2/2017									
5/8/2017	4.2								
5/9/2017			5.3	5.7					
5/10/2017		1.2							
5/26/2017					0.93				
6/27/2017									
6/28/2017					1				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017		1.5							
7/13/2017			4.7	5.4					
7/17/2017	3.8								
9/22/2017				6.9					
9/29/2017				5.5					
10/3/2017					1.2				
10/4/2017									
10/5/2017									
10/6/2017				5.5					
10/10/2017									
10/11/2017			5.8	6.4		2.4			
10/12/2017		1.6					6	3.1	3.8
10/16/2017	4.2								
11/20/2017						1.8	6.9		4.4
11/21/2017								4.2	
1/10/2018									4.6
1/11/2018						1.6		3.8	
1/12/2018							6.6		
2/19/2018	4.3							3.5	4.6
2/20/2018						2	6.2		
4/2/2018									
4/3/2018						3.3	6.9	4.4	5.9
4/4/2018		1.8	4.3						
6/5/2018									
6/6/2018									
6/7/2018					1				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				5.6					
6/27/2018								3.6	
6/28/2018						2.1	6.4		5
8/6/2018	3.8								
8/7/2018						1.2	5.5	3.3	4.3
9/19/2018									
9/20/2018		1.9	4.8						
9/24/2018						1.3	5.9	3.3	4.9
9/25/2018									
9/26/2018				6					
9/27/2018									
10/1/2018					1.1				

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
10/2/2018									
2/25/2019	4.1								
3/26/2019									4.4
3/27/2019						1.4	6.2		
3/28/2019		1.8	4.4					3.2	
3/29/2019					1.2				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				5.4					
6/12/2019	4.7								
9/24/2019					0.95 (J)				
9/25/2019									
9/26/2019			5	7.1					
9/27/2019									
10/8/2019	5.1								
10/9/2019		2.3				2.1	5	3.3	5.1
3/17/2020	4.8								
3/18/2020									
3/19/2020					0.97 (J)				
3/24/2020									4.7
3/25/2020		1.8	4.1	6.3		1.9	4	2.7	
3/26/2020									
9/22/2020	4.2								
9/23/2020					0.88 (J)				
9/24/2020			4.6			2.7			5
9/25/2020		2.3					4	3	
10/7/2020				8.7					
3/1/2021									
3/2/2021	4.1								
3/3/2021					0.86 (J)				
3/4/2021		2.1	4.1	6.6		4.9	3.9	3.4	4.9

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-5D (bg)
6/1/2016	<0.1	0.12 (J)	0.15 (J)						
6/2/2016				<0.1	<0.1	<0.1	<0.1	0.62	0.11 (J)
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	0.06 (J)		0.14 (J)	0.06 (J)					
7/26/2016		0.08 (J)			<0.1	<0.1	0.02 (J)	0.49	0.05 (J)
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016	<0.1	0.11 (J)							
9/14/2016			0.18 (J)		<0.1	<0.1			0.04 (J)
9/15/2016							<0.1	0.54	
9/16/2016									
9/19/2016				<0.1					
9/20/2016									
11/1/2016		<0.1	<0.1	<0.1				0.68	
11/2/2016					<0.1		<0.1		<0.1
11/3/2016									
11/4/2016	<0.1					<0.1			
11/8/2016									
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017							<0.1		
1/11/2017		0.05 (J)	0.09 (J)					0.49	
1/12/2017						<0.1			0.04 (J)
1/13/2017					<0.1				
1/16/2017	<0.1			<0.1					
1/17/2017									
2/21/2017				<0.1					
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017			<0.1						
3/2/2017	<0.1	<0.1						0.48	
3/3/2017									
3/6/2017					<0.1				
3/7/2017						<0.1			<0.1
3/8/2017							<0.1		
3/9/2017									
4/26/2017			0.08 (J)	<0.1			<0.1	0.48	
4/27/2017	0.01 (J)	0.04 (J)							
4/28/2017									
5/1/2017					<0.1				<0.1

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-5D (bg)
9/25/2018									
9/26/2018					<0.1	<0.1			<0.1
9/27/2018									
10/1/2018	<0.1	<0.1	<0.1				<0.1	0.44	
10/2/2018				<0.1					
2/25/2019									
2/26/2019				<0.1			<0.1		
2/27/2019	<0.1	0.052 (J)	0.13 (J)					0.53	
3/4/2019					<0.1	<0.1			0.19 (J)
3/5/2019									
3/6/2019									
3/26/2019									
3/27/2019									
3/28/2019	<0.1	0.036 (J)							
3/29/2019							<0.1		
4/1/2019			0.1 (J)	<0.1				0.45	
4/2/2019									
4/3/2019					<0.1	<0.1			0.047 (J)
4/4/2019									
6/12/2019									
8/19/2019									
8/20/2019									
8/21/2019									
8/22/2019									
9/24/2019	<0.1	0.063 (J)				<0.1			0.05 (J)
9/25/2019			0.1 (J)	<0.1	<0.1		<0.1	0.46	
9/26/2019									
9/27/2019									
10/8/2019									
10/9/2019									
2/10/2020	<0.1	0.061 (J)							
2/11/2020			0.094 (J)						
2/12/2020				<0.1	<0.1	<0.1	<0.1	0.4	<0.1
3/17/2020									
3/18/2020	<0.1						<0.1		
3/19/2020		0.064 (J)	0.11 (J)	<0.1				0.51	
3/24/2020						<0.1			<0.1
3/25/2020					<0.1				
3/26/2020									
8/26/2020									
8/27/2020									
9/22/2020					<0.1	<0.1			0.056 (J)
9/23/2020	<0.1	0.058 (J)	0.098 (J)					0.47	
9/24/2020				<0.1					
9/25/2020							<0.1		
10/7/2020									
2/8/2021						<0.1			0.055 (J)
2/9/2021					<0.1				
2/10/2021			<0.1				<0.1	0.43	
2/11/2021				<0.1					
2/12/2021	<0.1	0.068 (J)							
3/1/2021				<0.1					

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (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									
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									<0.1
3/26/2020					<0.1		<0.1		
8/26/2020									
8/27/2020								<0.1	
9/22/2020								<0.1	
9/23/2020	<0.1	<0.1				<0.1	<0.1		
9/24/2020			0.079 (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	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (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

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-41	YGWC-38
5/2/2017									
5/8/2017		0.05 (J)							
5/9/2017			0.05 (J)	0.009 (J)					
5/10/2017	0.04 (J)								
5/26/2017					0.09 (J)				
6/27/2017									
6/28/2017					0.11 (J)				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017	0.2 (J)								
7/13/2017			<0.1	<0.1					
7/17/2017		0.14 (J)							
9/22/2017				0.09 (J)					
9/29/2017				<0.1					
10/3/2017					<0.1				
10/4/2017									
10/5/2017									
10/6/2017				<0.1					
10/10/2017									
10/11/2017			0.14 (J)	<0.1		<0.1			
10/12/2017	0.1 (J)						<0.1	<0.1	<0.1
10/16/2017		0.12 (J)							
11/20/2017						<0.1	<0.1		0.2 (J)
11/21/2017							<0.1		
1/10/2018							<0.1		
1/11/2018						<0.1		<0.1	
1/12/2018									0.21 (J)
2/19/2018		0.17					<0.1	<0.1	
2/20/2018						0.23			<0.1
3/27/2018									
3/28/2018					0.31				
3/29/2018									
3/30/2018				<0.1					
4/2/2018									
4/3/2018						<0.1	<0.1	<0.1	0.41
4/4/2018	<0.1		<0.1						
6/5/2018									
6/6/2018									
6/7/2018					0.11 (J)				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				<0.1					
6/27/2018								<0.1	
6/28/2018						<0.1	<0.1		0.43
8/6/2018		0.087 (J)							
8/7/2018						0.048 (J)	<0.1	0.11 (J)	<0.1
9/19/2018									
9/20/2018	<0.1		<0.1						
9/24/2018						<0.1	<0.1	<0.1	0.034 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-41	YGWC-38
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

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/6/2021 8:46 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)
2/27/2017									
2/28/2017									
3/1/2017		7.42							
3/2/2017			7.23	6.28				7.68	
3/3/2017									
3/6/2017						6.2			
3/7/2017							7.43		5.66
3/8/2017									
3/9/2017									
4/26/2017		7.4			5.56			7.45	
4/27/2017			6.99	6.09					
4/28/2017									
5/1/2017						6.21	7.22		
5/2/2017									5.65
5/8/2017	6.12								
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017			6.87	6.21			7.32		5.7
6/28/2017		7.5						7.65	
6/29/2017						6.21			
6/30/2017					5.72				
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017	6.03								
9/22/2017									
9/29/2017									
10/3/2017			6.81	5.98			7.48		5.79
10/4/2017		7.45			5.87			7.49	
10/5/2017						6.16			
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017	6.12								
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018	6.13								
2/20/2018									
3/27/2018				6.25	5.83				
3/28/2018		7.74						7.91	
3/29/2018			7.38			6.09	7.02		5.63
3/30/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018			7.16						

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/6/2021 8:46 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-14S (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	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									
3/6/2017				5.63	6.34				
3/7/2017									
3/8/2017	5.41							5.62	
3/9/2017							5.56		
4/26/2017	5.02	5.4	5.99	5.66	6.32				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017						5.47	5.61	5.46	
5/8/2017									5.58
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017									
6/28/2017		5.36	6						
6/29/2017				5.85	6.47	5.56			
6/30/2017	5.39								
7/7/2017								5.81	
7/10/2017							5.68		
7/11/2017									5.58
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017					6.56				
10/4/2017		5.32		5.83		5.57			
10/5/2017	5.49		6.11					5.45	
10/6/2017									
10/10/2017									5.49
10/11/2017							5.46		
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
3/27/2018	5.47								
3/28/2018		5.34	6.1			5.59			
3/29/2018				5.93	6.75				
3/30/2018							5.73	5.64	
4/2/2018									6.3 (O)
4/3/2018									
4/4/2018									
6/5/2018					6.09				

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/6/2021 8:46 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-14S (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-23S	YGWC-24SA	YGWA-47 (bg)
6/6/2018				5.86					
6/7/2018			5.98						
6/8/2018	5.45								
6/11/2018		5.28				5.58			
6/12/2018							5.63	5.64	
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									5.48
9/20/2018									
9/24/2018									
9/25/2018		4.86	5.81	5.84	6.67	5.59			
9/26/2018								5.61	
9/27/2018							5.47		
10/1/2018	5.39								
10/2/2018									
2/25/2019									
2/26/2019	5.46								
2/27/2019									
3/4/2019									
3/5/2019		5.26		6.07	7.22	5.48		5.72	
3/6/2019			5.99				5.84		
3/26/2019									
3/27/2019									5.83
3/28/2019									
3/29/2019	5.34								
4/1/2019									
4/2/2019					6.94	5.74			
4/3/2019		5.47	6.29	5.71					
4/4/2019							5.64	5.66	
6/12/2019									
8/19/2019									
8/20/2019									5.58
8/21/2019									
8/22/2019									
9/24/2019					6.87				
9/25/2019	5.19			5.86		5.49			
9/26/2019		5.2	6.04					5.52	
9/27/2019							5.77		
10/8/2019									5.59
10/9/2019									
2/10/2020									
2/11/2020		5.3	6.07				5.58		
2/12/2020	5.48			6	7.13				
3/17/2020									5.57
3/18/2020	5.38								
3/19/2020									
3/24/2020		5.33	5.98	5.86	6.35	5.57			
3/25/2020									
3/26/2020							5.69	5.51	

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/6/2021 8:46 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-14S (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	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									5.46
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	5.44								
10/7/2020									
2/8/2021									
2/9/2021		5.43	6.12	5.86	6.95		5.61	5.69	
2/10/2021	5.35								
2/11/2021									
2/12/2021									
3/1/2021									5.48
3/2/2021	5.49								
3/3/2021		5.31	5.89	5.89		5.52		5.7	
3/4/2021					6.8		5.44		

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/6/2021 8:46 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	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								
8/31/2016		7.27							
9/1/2016			5.78						
9/2/2016				5.84					
9/13/2016					7.41				
9/14/2016									
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016					7.12				
11/8/2016									
11/14/2016				6.28					
11/15/2016			5.81						
11/16/2016	6.21	6.79							
11/28/2016									
12/15/2016					7.24				
1/10/2017									
1/11/2017									
1/12/2017									
1/13/2017									
1/16/2017					7.24				
1/17/2017									
2/21/2017									
2/22/2017									
2/24/2017		6.39							

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/6/2021 8:46 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	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

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)
6/1/2016	12	5	4.2						
6/2/2016				20	6.6	5.8	1.3	1.9	8
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	8.4		3.7				1.2		
7/26/2016		5.4		20	6.1	6.7		1.8	7.7
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016		2.9	5.2						
9/14/2016	8.6			19				1.8	7.5
9/15/2016					6.1	6			
9/16/2016									
9/19/2016							1.2		
9/20/2016									
11/1/2016	8.9	3.9				4.9	1.3		
11/2/2016				20	6.3				8.2
11/3/2016									
11/4/2016			5					2	
11/8/2016									
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017					5.9				
1/11/2017	8.6	3.7				4.5			
1/12/2017				19				1.9	
1/13/2017									8.1
1/16/2017			7.9				<1		
1/17/2017									
2/21/2017							1.4		
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017	9.3								
3/2/2017		4.6	7.4			4.4			
3/3/2017									
3/6/2017									8
3/7/2017				20				2.1	
3/8/2017					7				
3/9/2017									
4/26/2017	11				7	5.1	1.4		
4/27/2017		5.2	7.4						
4/28/2017									
5/1/2017				20					8.4

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)
5/2/2017								2	
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		5.9	6.4	18				2.1	
6/28/2017	12					5.4			
6/29/2017									9.2
6/30/2017					6.5		<1		
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017		6.6	5.9	16				2.3	
10/4/2017	12					6.2	1.4		
10/5/2017					7.9				9.6
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018		6.4							
6/6/2018			4.4	8.3					
6/7/2018						6.7		2	8.5
6/8/2018	9.6				6.4				
6/11/2018							1.1		
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									
9/25/2018									
9/26/2018				7.9				2.3	10.2
9/27/2018									
10/1/2018	9.1	5.6	4		6.8	7.1			

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWC-23S	YGWA-211 (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWC-24SA	YGWA-47 (bg)	YGWC-42
10/2/2018									
2/25/2019									
3/26/2019									
3/27/2019								65.9	831
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019				3.8		5.1			
4/3/2019	0.82 (J)	1.3			0.12 (J)				
4/4/2019			27.9				0.29 (J)		
6/12/2019									
9/24/2019				1					
9/25/2019					<1	5.5			
9/26/2019	0.64 (J)	1					0.23 (J)		
9/27/2019			30.3						
10/8/2019								52.3	
10/9/2019									725
3/17/2020								71.6	
3/18/2020									
3/19/2020									
3/24/2020	<1	0.99 (J)		3	<1	5.4			
3/25/2020									642
3/26/2020			36.5				<1		
9/22/2020								51.5	
9/23/2020	0.53 (J)	1.1				5.1	<1		
9/24/2020			52.5	3.6	<1				579
9/25/2020									
10/7/2020									
3/1/2021								51.6	
3/2/2021									
3/3/2021	<1	1			<1	5.2	<1		
3/4/2021			61.7 (M1)	4.5					537

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
5/2/2017									
5/8/2017	60								
5/9/2017			91	130					
5/10/2017		100							
5/26/2017					12				
6/27/2017									
6/28/2017					11				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017		110							
7/13/2017			88	140					
7/17/2017	63								
9/22/2017				160					
9/29/2017				160					
10/3/2017					7.9				
10/4/2017									
10/5/2017									
10/6/2017				160					
10/10/2017									
10/11/2017			86	150		20			
10/12/2017		120					940	400	17
10/16/2017	62								
11/20/2017					24	980			71
11/21/2017							430		
1/10/2018									66
1/11/2018					23		390		
1/12/2018							880		
2/19/2018	64.6							414	57.2
2/20/2018						20.6	905		
4/2/2018									
4/3/2018						24.5	872	406	49.4
4/4/2018		160	76.5						
6/5/2018									
6/6/2018									
6/7/2018					8.8				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				144					
6/27/2018								357	
6/28/2018						22	869		43.8
8/6/2018	42.1								
8/7/2018						20.7	879	346	40.5
9/19/2018									
9/20/2018		247	84.1						
9/24/2018						21.2	872	358	39.7
9/25/2018									
9/26/2018				160					
9/27/2018									
10/1/2018					9.1				

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
10/2/2018									
2/25/2019	42.1								
3/26/2019									34.3
3/27/2019						17.7	851		
3/28/2019		181	82.8					258	
3/29/2019					9				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				119					
6/12/2019	83.4								
9/24/2019					9.1				
9/25/2019									
9/26/2019			80	84.8					
9/27/2019									
10/8/2019	128								
10/9/2019		279				15	708	263	27.9
3/17/2020	98.6								
3/18/2020									
3/19/2020					12.4				
3/24/2020									25.2
3/25/2020		164	76.1	58.8		14.3	483	214	
3/26/2020									
9/22/2020	145								
9/23/2020					11.8				
9/24/2020			77			11.7			22.9
9/25/2020		281					414	175	
10/7/2020				18.2					
3/1/2021									
3/2/2021	156								
3/3/2021					10.6				
3/4/2021		328	75.1	6.3		12	356	117	21.5

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)
6/1/2016	150	120	54						
6/2/2016				160	46	130	36	66	96
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	135		48				50		
7/26/2016		94		177	54	141		78	92
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016		105	67						
9/14/2016	127			187				73	102
9/15/2016					54	153			
9/16/2016									
9/19/2016							35		
9/20/2016									
11/1/2016	75	44				92	<25		
11/2/2016				181	71				115
11/3/2016									
11/4/2016			60					75	
11/8/2016									
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017					45				
1/11/2017	148	107				159			
1/12/2017				202				86	
1/13/2017									67
1/16/2017			65				47		
1/17/2017									
2/21/2017							<25		
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017	182								
3/2/2017		98	61			117			
3/3/2017									
3/6/2017									159
3/7/2017				257				108	
3/8/2017					178				
3/9/2017									
4/26/2017	92				52	181	55		
4/27/2017		116	31						
4/28/2017									
5/1/2017				165					107

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)
5/2/2017								103	
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		89	42	189				73	
6/28/2017	126					169			
6/29/2017									79
6/30/2017				45			42		
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017		119	58	170				89	
10/4/2017	147					141	31		
10/5/2017				40					95
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018		127							
6/6/2018			96	151					
6/7/2018						95		142	90
6/8/2018	158				114				
6/11/2018							59		
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									
9/25/2018									
9/26/2018				144				86	116
9/27/2018									
10/1/2018	138	117	60		50	165			

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWC-23S	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	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				134		72			
4/3/2019	89	63			57				
4/4/2019			85				63		
6/12/2019									
9/24/2019				157					
9/25/2019					75	81			
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		117	76	71			
3/25/2020									1200
3/26/2020			110				67		
9/22/2020								141	
9/23/2020	103	81				99	87		
9/24/2020			129	113	69				1060
9/25/2020									
10/7/2020									
3/1/2021								145	
3/2/2021									
3/3/2021	95	37			53	57	70		
3/4/2021			96	110					501

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
5/2/2017									
5/8/2017	145								
5/9/2017			154	303					
5/10/2017		203							
5/26/2017					223				
6/27/2017									
6/28/2017					166				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017		238							
7/13/2017			192	282					
7/17/2017	185								
9/22/2017				309					
9/29/2017				273					
10/3/2017					153				
10/4/2017									
10/5/2017									
10/6/2017				287					
10/10/2017									
10/11/2017			177	264		68			
10/12/2017		287					1360	636	74
10/16/2017	218								
11/20/2017					139		1390		179
11/21/2017								706	
1/10/2018									140
1/11/2018					153			701	
1/12/2018							1400		
2/19/2018	173							630	119
2/20/2018						87	1300		
4/2/2018									
4/3/2018						85	1390	660	106
4/4/2018		292	174						
6/5/2018									
6/6/2018									
6/7/2018					146				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				292					
6/27/2018								575	
6/28/2018						88	1310		112
8/6/2018	158								
8/7/2018						89	1340	574	103
9/19/2018									
9/20/2018		434	186						
9/24/2018						82	1400	588	107
9/25/2018									
9/26/2018				277					
9/27/2018									
10/1/2018					155				

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/6/2021 8:46 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
10/2/2018									
2/25/2019	92								
3/26/2019									90
3/27/2019						75	1190		
3/28/2019		323	164					372	
3/29/2019					150				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				240					
6/12/2019	226								
9/24/2019					146				
9/25/2019									
9/26/2019			192	198					
9/27/2019									
10/8/2019	276								
10/9/2019		501				119	1100	440	98
3/17/2020	185								
3/18/2020									
3/19/2020					148				
3/24/2020									84
3/25/2020		352	130	164		158	883	428	
3/26/2020									
9/22/2020	281								
9/23/2020					161				
9/24/2020			187			170			77
9/25/2020		494					664	307	
10/7/2020				137					
3/1/2021									
3/2/2021	296								
3/3/2021					138				
3/4/2021		592	145	69		168	600	224	57

FIGURE E.

Appendix III Trend Tests - Prediction Limits Exceedances - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/6/2021, 8:52 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-211 (bg)	-0.006801	-60	-58	Yes	16	56.25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-38	-4.08	-56	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-41	-2.779	-44	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-43	0.7481	72	43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.118	59	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.0863	-67	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-211 (bg)	1.232	68	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-40 (bg)	-0.9737	-45	-43	Yes	13	7.692	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-2.574	-62	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWC-38	-30.07	-64	-43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWC-42	-11.87	-44	-43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-2.036	-56	-43	Yes	13	7.692	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	4.949	63	48	Yes	14	7.143	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.7865	60	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.1168	-63	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.3002	76	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.189	71	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.9116	-83	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-47 (bg)	-0.5003	-45	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.06529	-59	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3I (bg)	-0.05699	-66	-58	Yes	16	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-18S (bg)	-0.05702	-88	-81	Yes	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-211 (bg)	0.2015	107	81	Yes	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-39 (bg)	-0.2384	-89	-58	Yes	16	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-5D (bg)	-0.09849	-78	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-3.687	-48	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-12.05	-54	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-3.891	-96	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.09335	70	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWC-38	-145.1	-67	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWC-42	-113.1	-49	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWC-43	54	56	43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-25.19	-71	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)	25.64	66	48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	1.091	76	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.4938	60	58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-40 (bg)	-18.83	-48	-43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5D (bg)	-18.77	-74	-58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-38	-198	-48	-43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-41	-134.8	-62	-43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-42	-168.3	-56	-43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-43	111.1	70	43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-47 (bg)	-14.88	-54	-43	Yes	13	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limits Exceedances - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/6/2021, 8:52 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-17S (bg)	-0.0002497	-11	-58	No	16	12.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-34	-58	No	16	75	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	-0.0003285	-14	-58	No	16	12.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-15	-58	No	16	87.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	-0.006801	-60	-58	Yes	16	56.25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-39 (bg)	0.002402	14	43	No	13	7.692	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)	-0.02279	-41	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-4I (bg)	0	-17	-58	No	16	62.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0001974	12	58	No	16	12.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	-0.0019	-46	-58	No	16	56.25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-23S	-0.1172	-38	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-38	-4.08	-56	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-41	-2.779	-44	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-42	-1.536	-37	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-43	0.7481	72	43	Yes	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-47 (bg)	-0.001291	-39	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-2 (bg)	0	5	48	No	14	57.14	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-14S (bg)	-0.00131	-37	-58	No	16	12.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0	-2	-58	No	16	25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1I (bg)	0	-23	-58	No	16	68.75	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-2I (bg)	0	-18	-58	No	16	75	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-28	-58	No	16	81.25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	-8	-58	No	16	56.25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	-23	-58	No	16	87.5	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.118	59	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18I (bg)	0.02122	10	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.0863	-67	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-20S (bg)	0.09145	54	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-21I (bg)	1.232	68	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-39 (bg)	0.4473	13	43	No	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-40 (bg)	-0.9737	-45	-43	Yes	13	7.692	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-4I (bg)	0.2746	37	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-2.574	-62	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5I (bg)	0.09171	50	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWC-38	-30.07	-64	-43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWC-42	-11.87	-44	-43	Yes	13	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-2.036	-56	-43	Yes	13	7.692	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	4.949	63	48	Yes	14	7.143	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-14S (bg)	-0.03659	-46	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.7865	60	58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.1168	-63	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-2I (bg)	0.5792	38	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-30I (bg)	0	-6	-58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3D (bg)	0.7746	48	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3I (bg)	0.43	27	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.3002	76	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-18I (bg)	0.05099	35	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-18S (bg)	0.2082	50	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.189	71	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-21I (bg)	-0.1117	-28	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-39 (bg)	0.2329	13	43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-40 (bg)	0.1751	26	43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-4I (bg)	0.1099	36	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.9116	-83	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5I (bg)	0	-1	-58	No	16	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limits Exceedances - All Results Page 2

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/6/2021, 8:52 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Chloride (mg/L)	YGWA-47 (bg)	-0.5003	-45	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-2 (bg)	0.1272	29	48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-14S (bg)	0.1626	30	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1D (bg)	-0.02735	-40	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1I (bg)	-0.02869	-33	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-2I (bg)	-0.05296	-45	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-30I (bg)	0	-21	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.06529	-59	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3I (bg)	-0.05699	-66	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-24SA	0.4282	54	58	No	16	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-17S (bg)	-0.005007	-36	-74	No	19	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-18I (bg)	-0.01164	-23	-81	No	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-18S (bg)	-0.05702	-88	-81	Yes	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-20S (bg)	0.03	81	81	No	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-21I (bg)	0.2015	107	81	Yes	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-39 (bg)	-0.2384	-89	-58	Yes	16	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-40 (bg)	0.005552	4	58	No	16	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-4I (bg)	-0.02017	-44	-81	No	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-5D (bg)	-0.09849	-78	-74	Yes	19	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-5I (bg)	0	-7	-81	No	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWC-41	0.04117	13	53	No	15	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-47 (bg)	-0.0262	-37	-48	No	14	0	n/a	n/a	0.01	NP
pH (S.U.)	GWA-2 (bg)	-0.03439	-128	-139	No	29	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-14S (bg)	-0.003962	-13	-81	No	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-1D (bg)	-0.06046	-60	-81	No	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-1I (bg)	-0.05767	-78	-81	No	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-2I (bg)	0.005696	10	81	No	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-30I (bg)	0.002608	7	81	No	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-3D (bg)	-0.006892	-11	-81	No	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-3I (bg)	-0.03856	-36	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-17S (bg)	0.1322	51	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18I (bg)	-0.2007	-54	-58	No	16	25	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18S (bg)	-0.1939	-48	-58	No	16	12.5	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-20S (bg)	0	24	58	No	16	62.5	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-21I (bg)	-0.2852	-25	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-3.687	-48	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-12.05	-54	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-4I (bg)	0.1751	39	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-3.891	-96	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.09335	70	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWC-38	-145.1	-67	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWC-42	-113.1	-49	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWC-43	54	56	43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-25.19	-71	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)	25.64	66	48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-14S (bg)	0.09469	17	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	1.091	76	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1I (bg)	-0.2947	-23	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-2I (bg)	0.1728	11	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-30I (bg)	-0.08892	-28	-58	No	16	12.5	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.4938	60	58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3I (bg)	0.6094	45	58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-17S (bg)	4.826	22	58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18I (bg)	-2.316	-19	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18S (bg)	3.74	25	58	No	16	0	n/a	n/a	0.01	NP

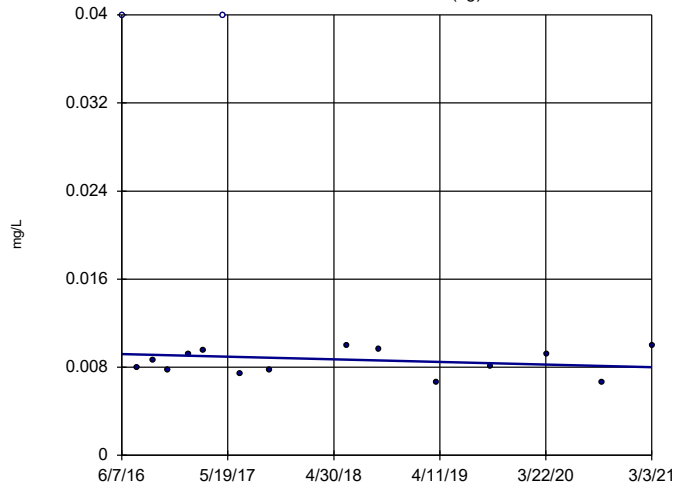
Appendix III Trend Tests - Prediction Limits Exceedances - All Results Page 3

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/6/2021, 8:52 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Total Dissolved Solids (mg/L)	YGWA-20S (bg)	3.156	31	58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-21I (bg)	15.05	46	58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-39 (bg)	17.14	28	43	No	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-40 (bg)	-18.83	-48	-43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-4I (bg)	1.119	8	58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5D (bg)	-18.77	-74	-58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5I (bg)	-1.204	-7	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-38	-198	-48	-43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-41	-134.8	-62	-43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-42	-168.3	-56	-43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-43	111.1	70	43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-47 (bg)	-14.88	-54	-43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	GWA-2 (bg)	29.32	40	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-14S (bg)	2.021	18	58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-1D (bg)	1.869	13	58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-1I (bg)	-3.828	-26	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-2I (bg)	-3.302	-32	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-30I (bg)	2.131	17	58	No	16	12.5	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3D (bg)	1.956	12	58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3I (bg)	0.9644	5	58	No	16	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

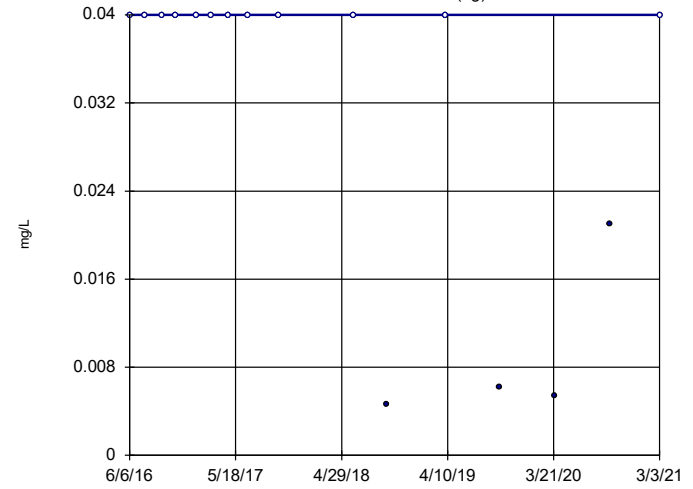
YGWA-17S (bg)



Constituent: Boron Analysis Run 5/6/2021 8:49 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

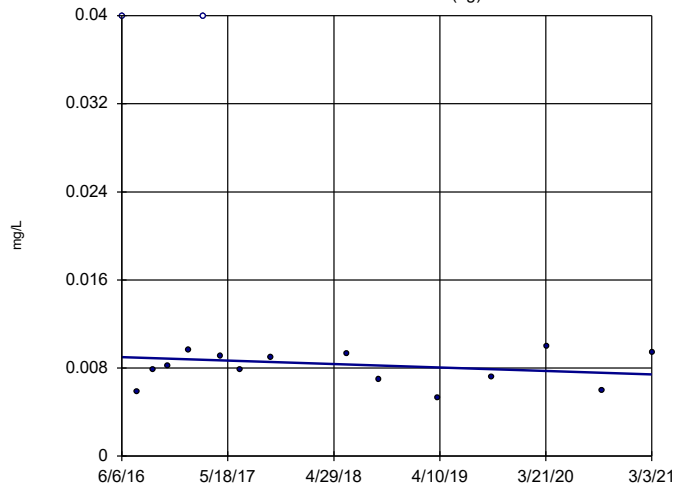
YGWA-18I (bg)



Constituent: Boron Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

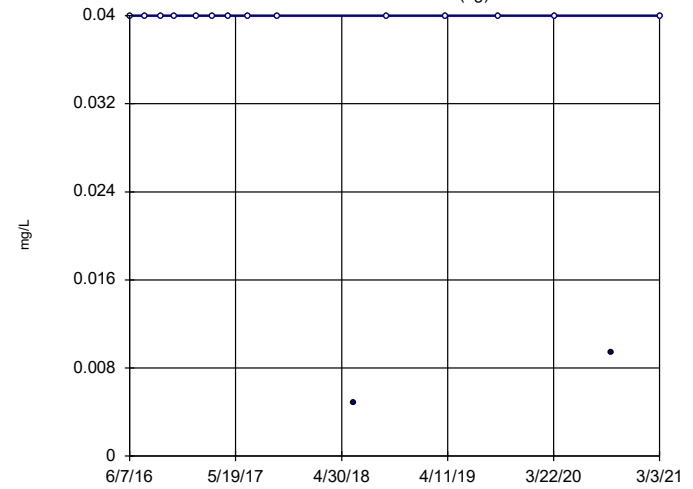
YGWA-18S (bg)



Constituent: Boron Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

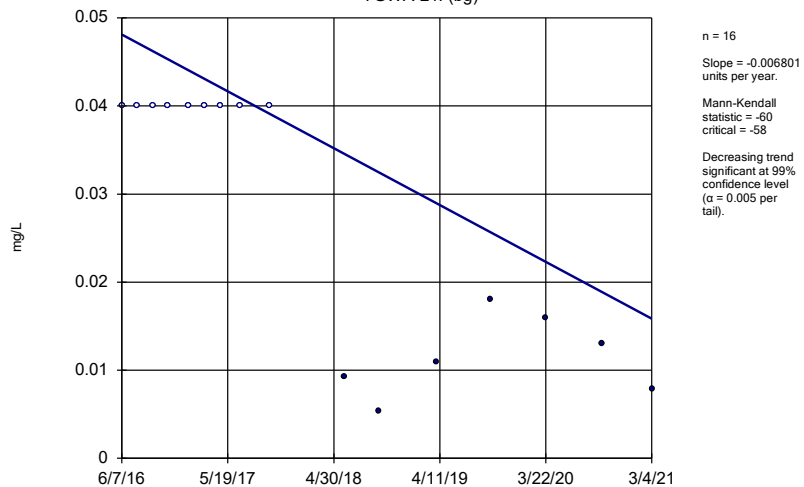
YGWA-20S (bg)



Constituent: Boron Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

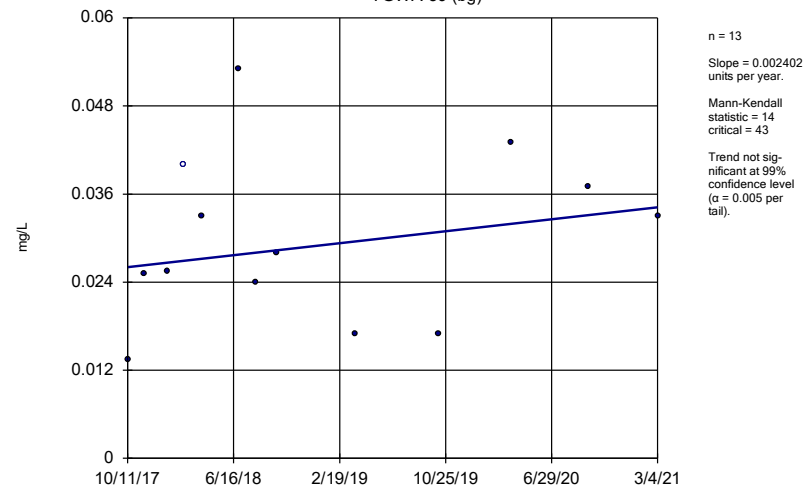
YGWA-211 (bg)



Constituent: Boron Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

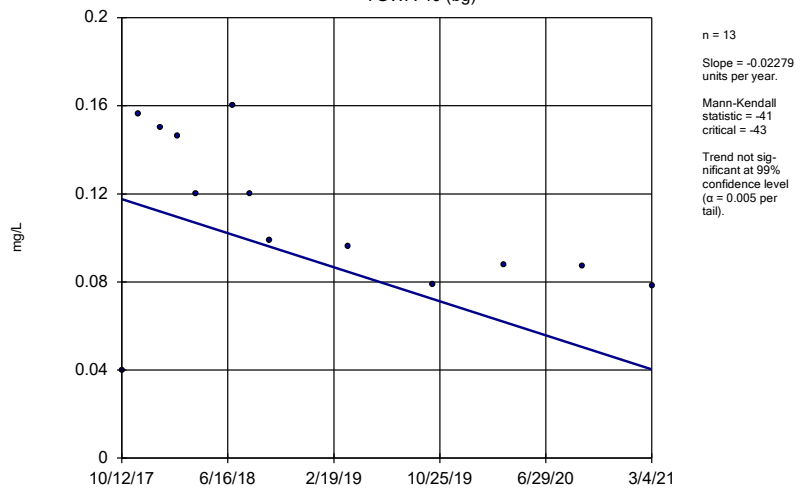
YGWA-39 (bg)



Constituent: Boron Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

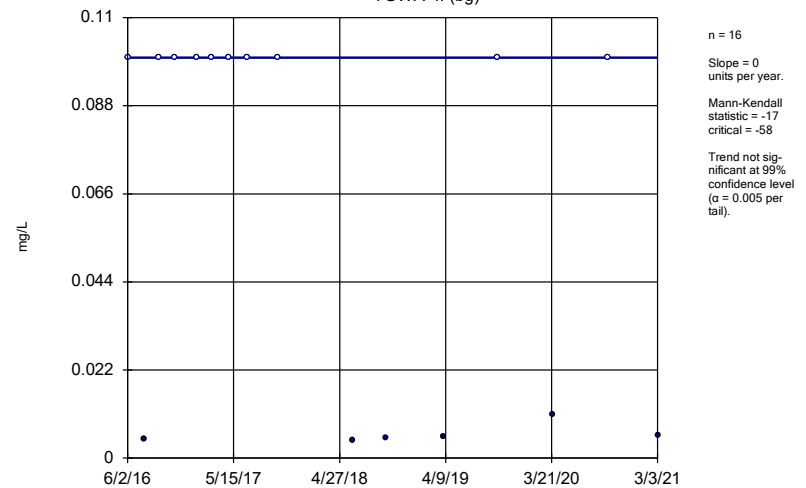
YGWA-40 (bg)



Constituent: Boron Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

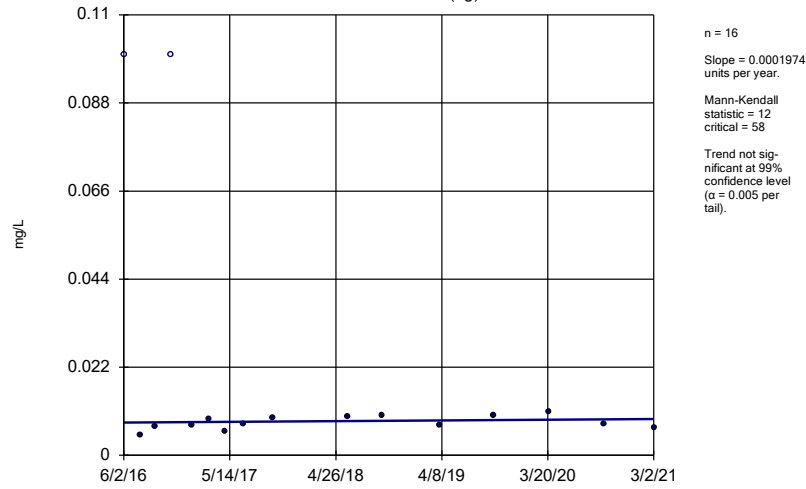
Sen's Slope Estimator

YGWA-41 (bg)



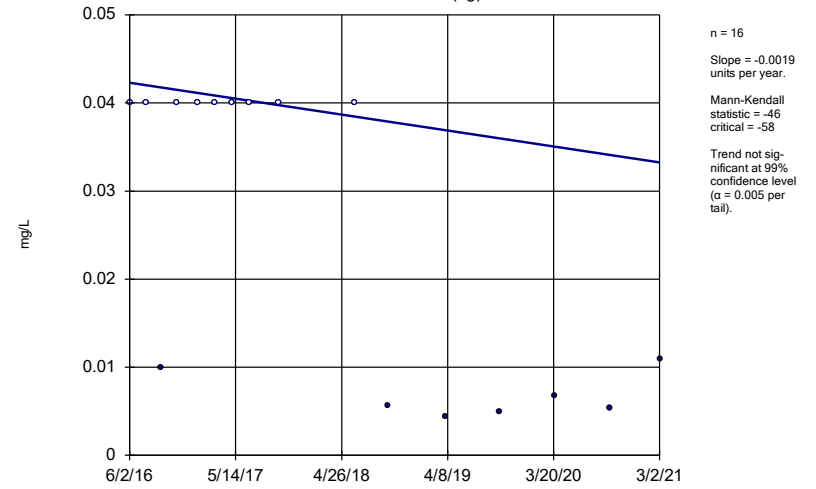
Constituent: Boron Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator
YGWA-5D (bg)



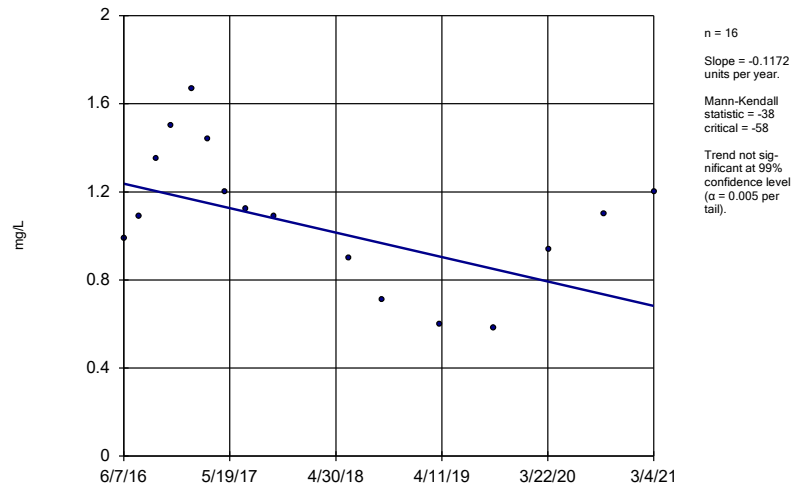
Constituent: Boron Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator
YGWA-5I (bg)



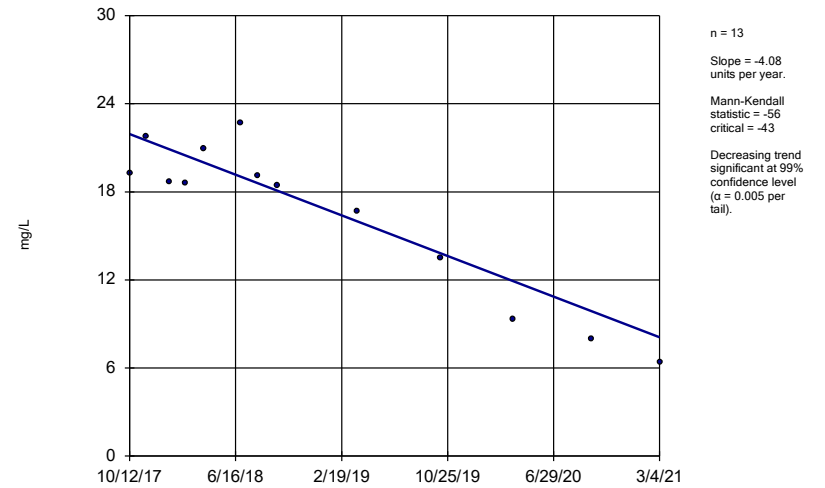
Constituent: Boron Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator
YGWC-23S



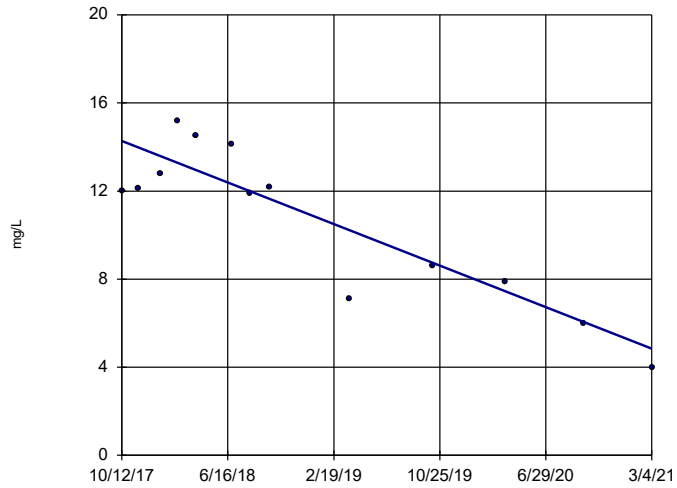
Constituent: Boron Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator
YGWC-38



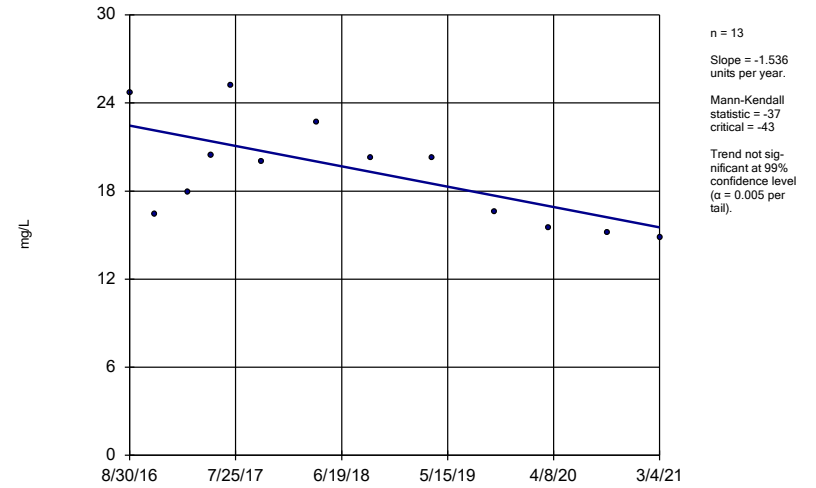
Constituent: Boron Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator
YGWC-41



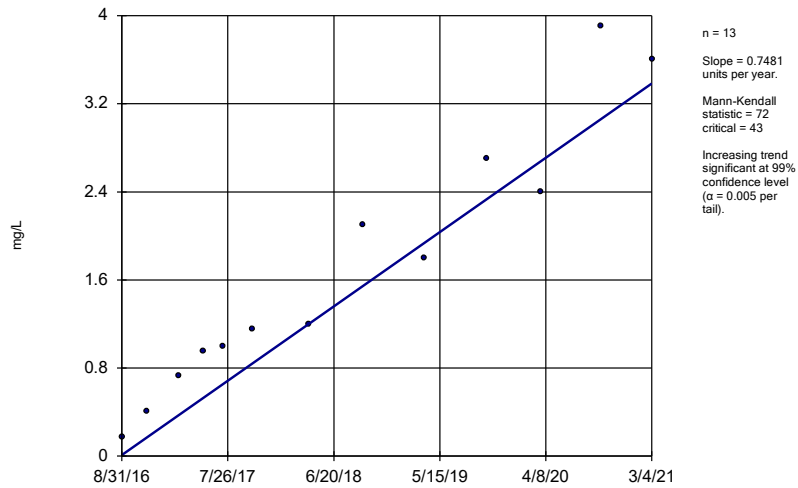
Constituent: Boron Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator
YGWC-42



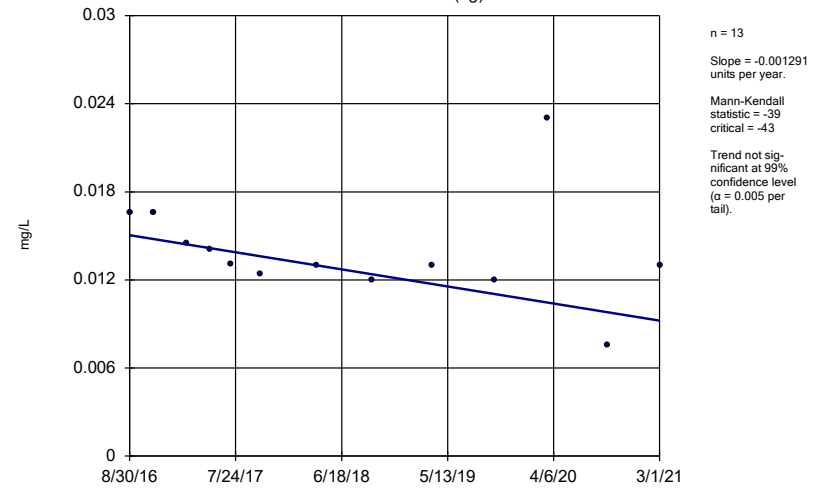
Constituent: Boron Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator
YGWC-43



Constituent: Boron Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

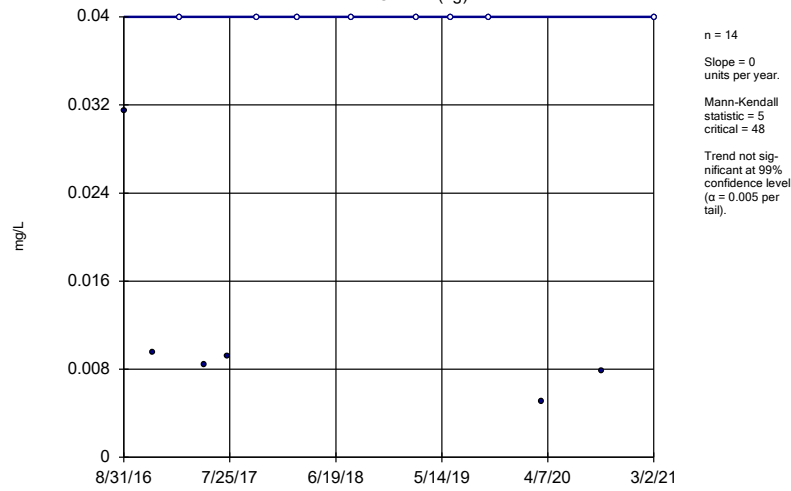
Sen's Slope Estimator
YGWA-47 (bg)



Constituent: Boron Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

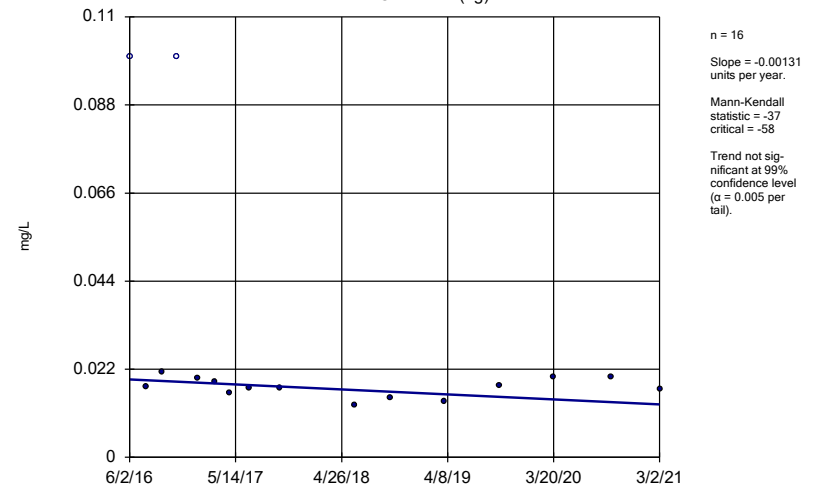
GWA-2 (bg)



Constituent: Boron Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

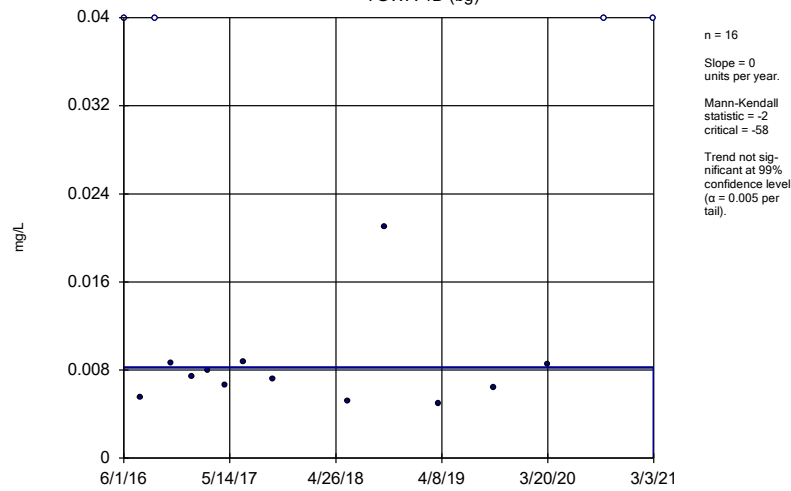
YGWA-14S (bg)



Constituent: Boron Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

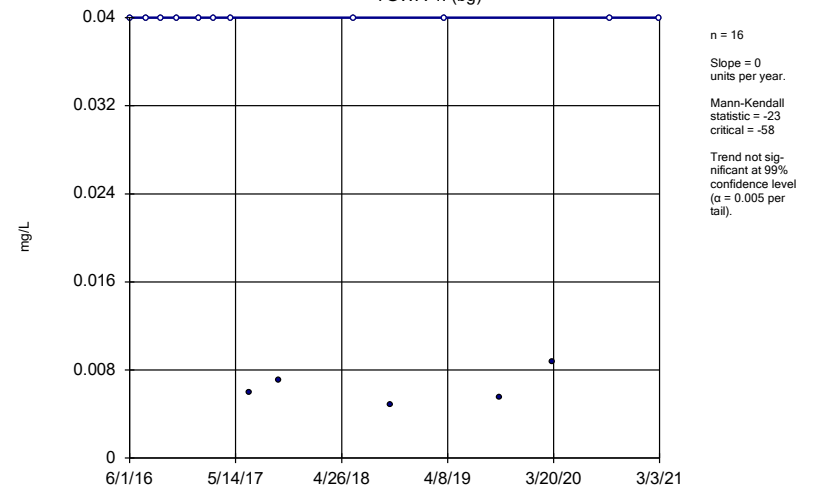
YGWA-1D (bg)



Constituent: Boron Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

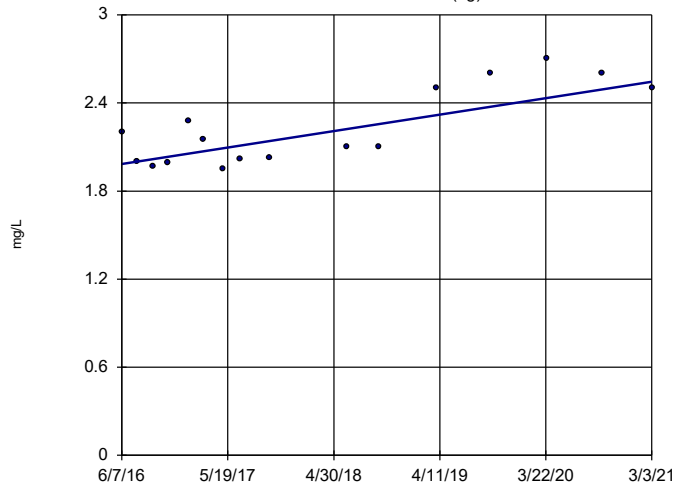
YGWA-1I (bg)



Constituent: Boron Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-17S (bg)

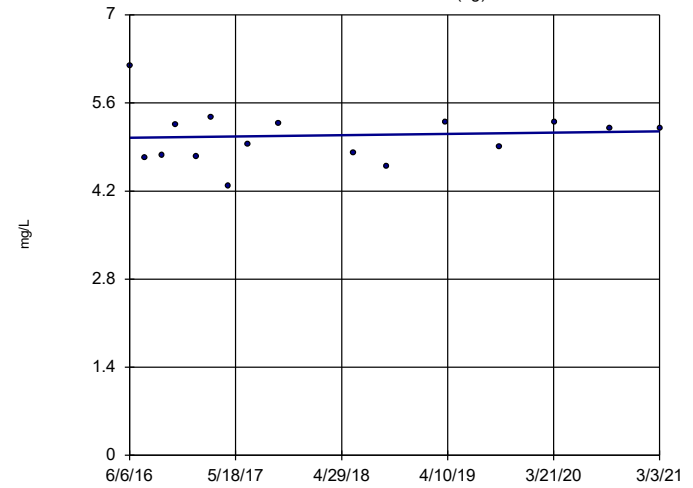


n = 16
 Slope = 0.118
 units per year.
 Mann-Kendall
 statistic = 59
 critical = 58
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-18I (bg)

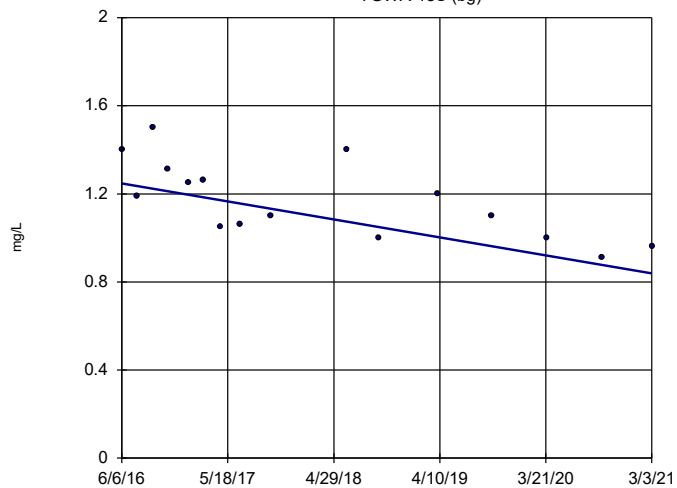


n = 16
 Slope = 0.02122
 units per year.
 Mann-Kendall
 statistic = 10
 critical = 58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-18S (bg)

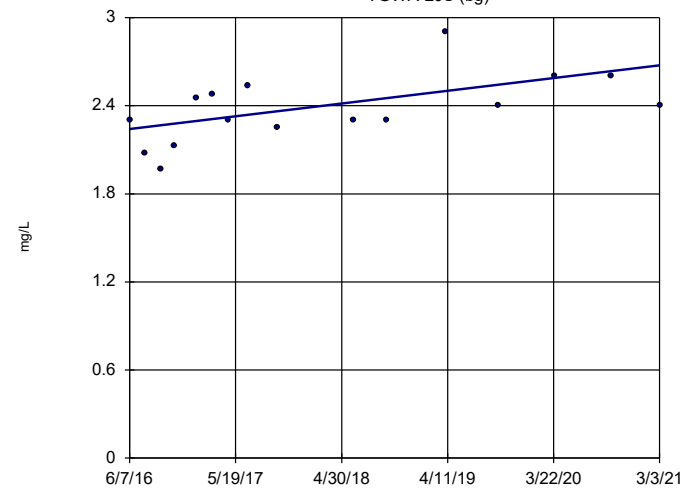


n = 16
 Slope = -0.0863
 units per year.
 Mann-Kendall
 statistic = -67
 critical = -58
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-20S (bg)

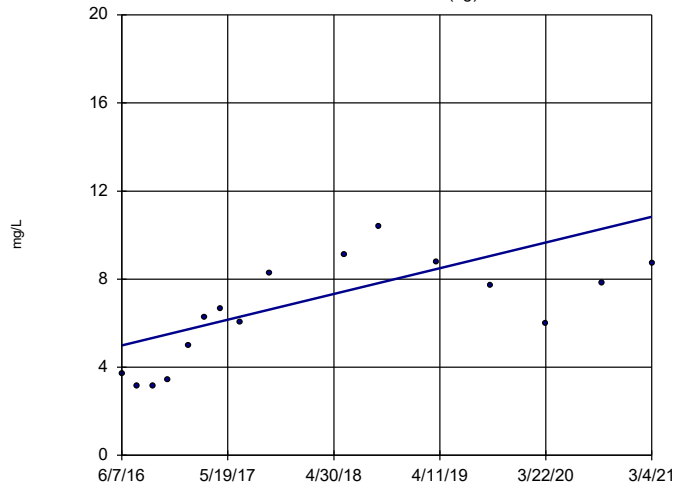


n = 16
 Slope = 0.09145
 units per year.
 Mann-Kendall
 statistic = 54
 critical = 58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

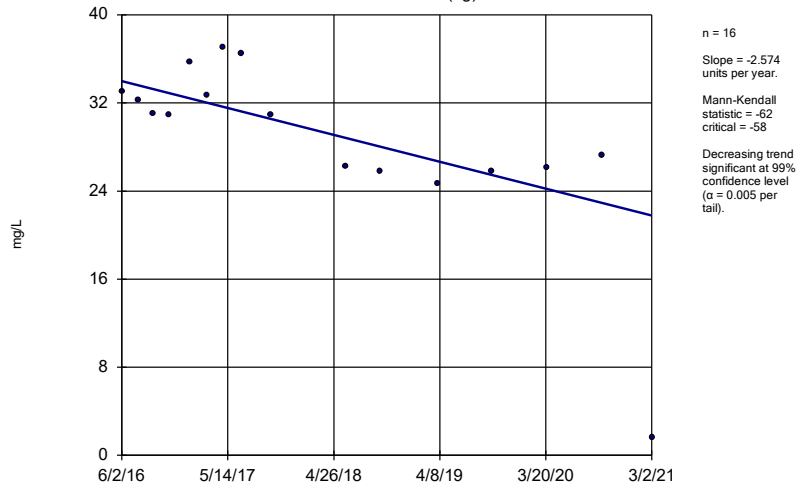
Constituent: Calcium Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-21I (bg)

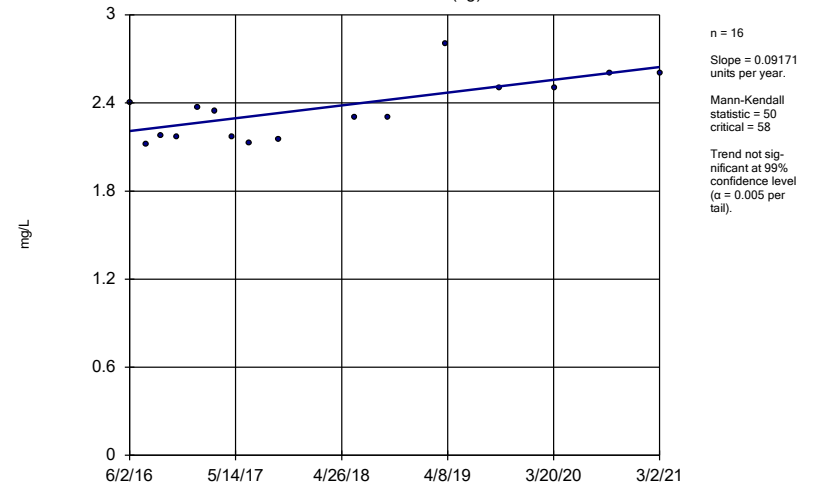


Sen's Slope Estimator
YGWA-5D (bg)



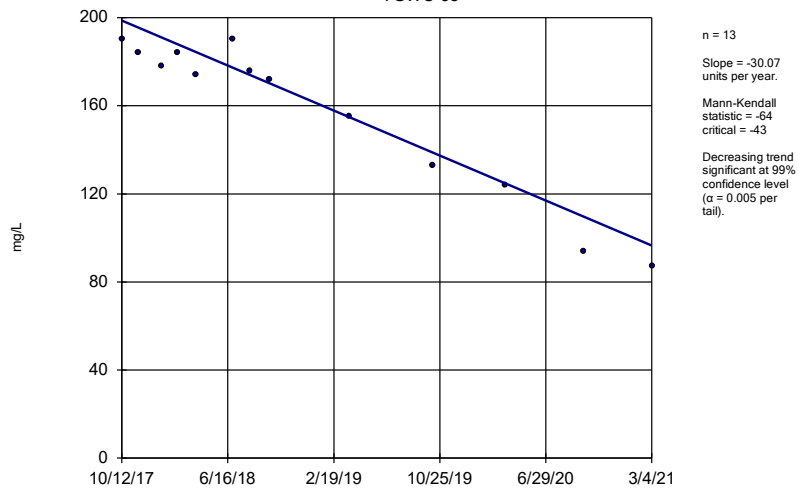
Constituent: Calcium Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator
YGWA-5I (bg)



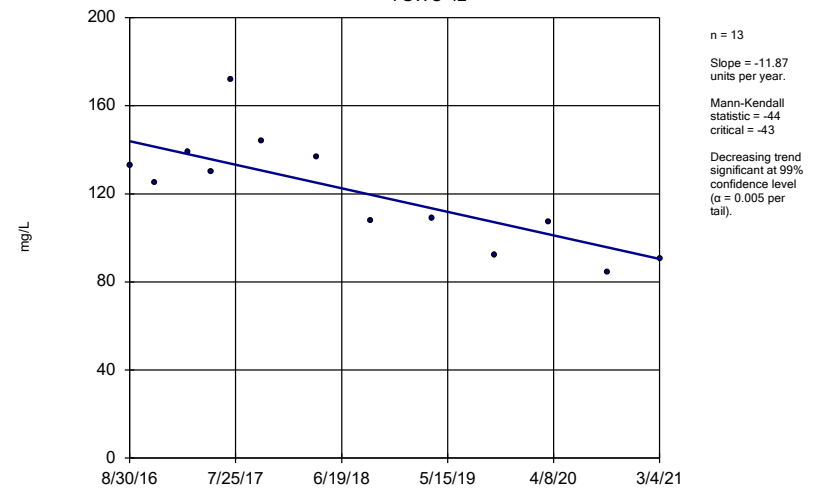
Constituent: Calcium Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator
YGWC-38



Constituent: Calcium Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

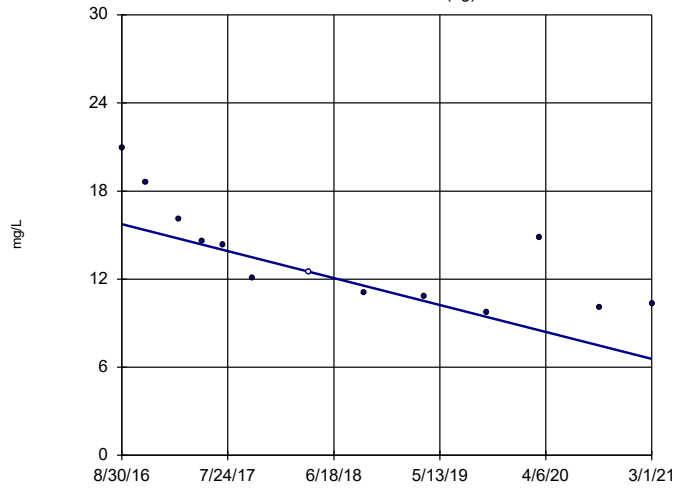
Sen's Slope Estimator
YGWC-42



Constituent: Calcium Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-47 (bg)

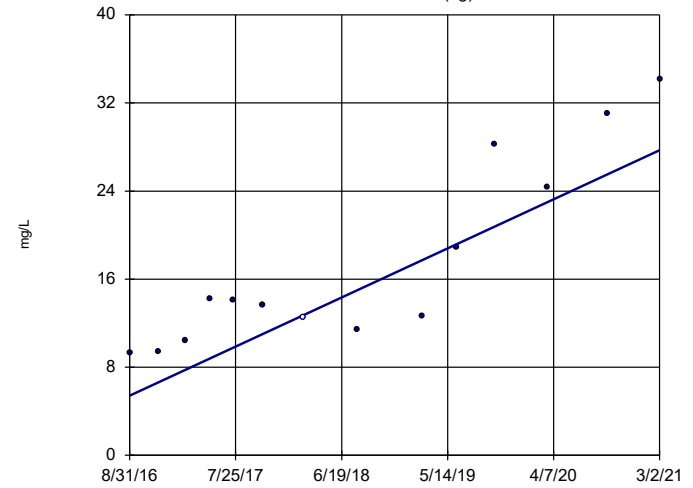


n = 13
Slope = -2.036
units per year.
Mann-Kendall
statistic = -56
critical = -43
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Calcium Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

GWA-2 (bg)

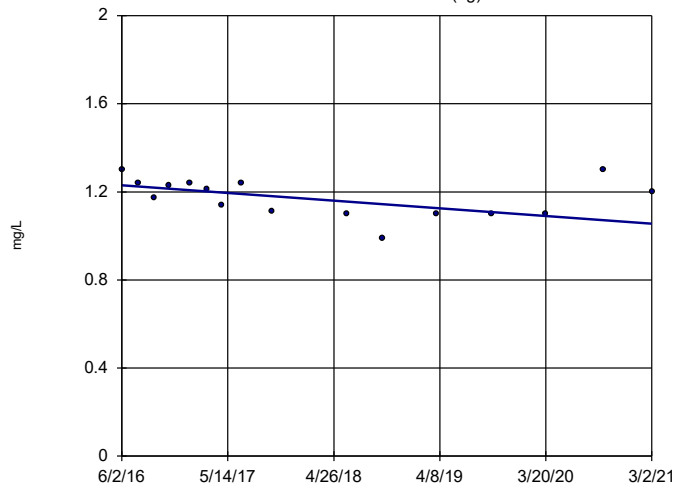


n = 14
Slope = 4.949
units per year.
Mann-Kendall
statistic = 63
critical = 48
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Calcium Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-14S (bg)

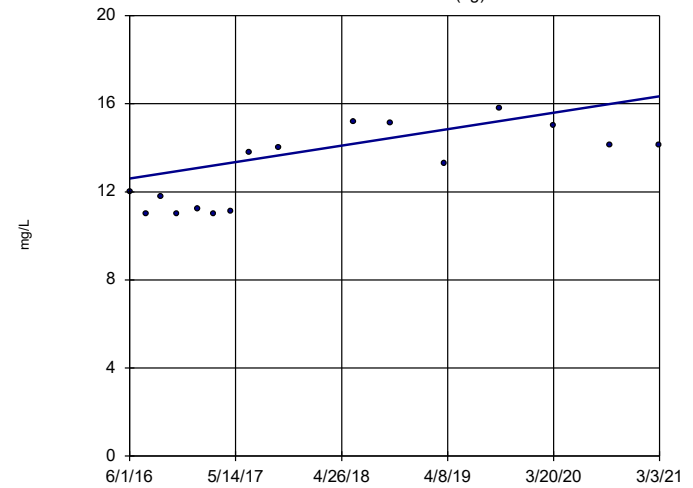


n = 16
Slope = -0.03659
units per year.
Mann-Kendall
statistic = -46
critical = -58
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Calcium Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-1D (bg)

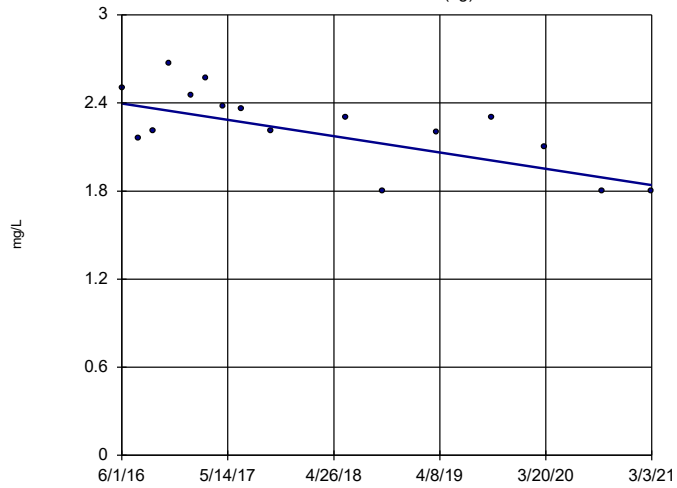


n = 16
Slope = 0.7865
units per year.
Mann-Kendall
statistic = 60
critical = 58
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Calcium Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

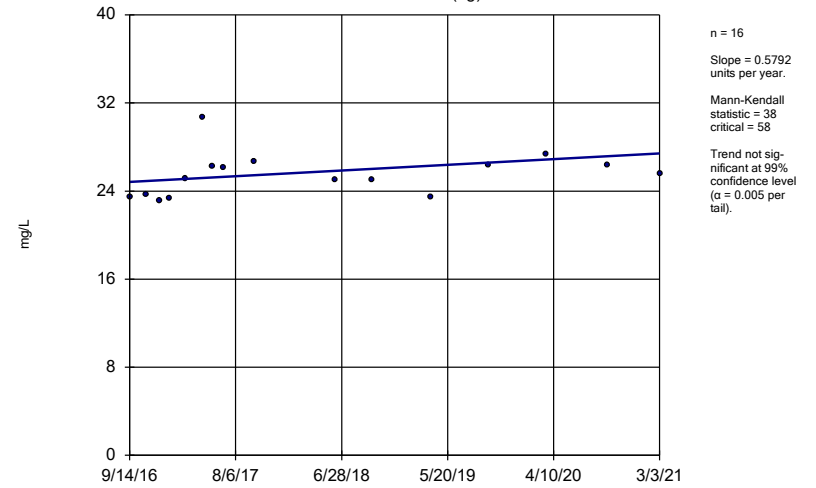
YGWA-11 (bg)



Constituent: Calcium Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

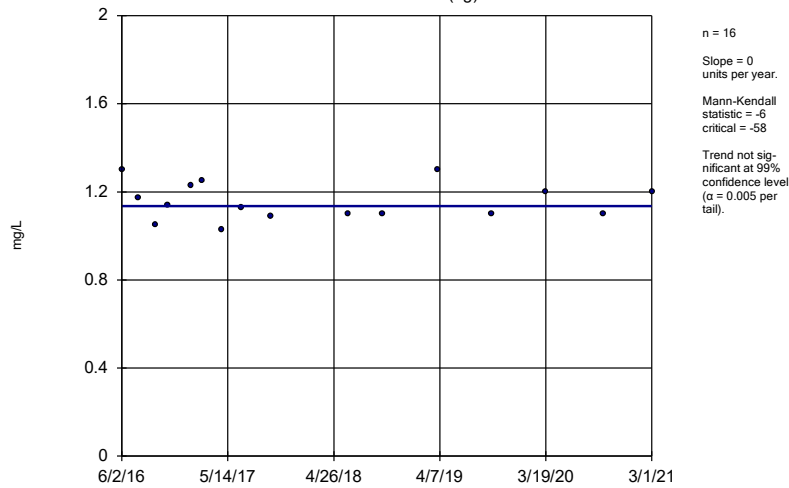
YGWA-21 (bg)



Constituent: Calcium Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

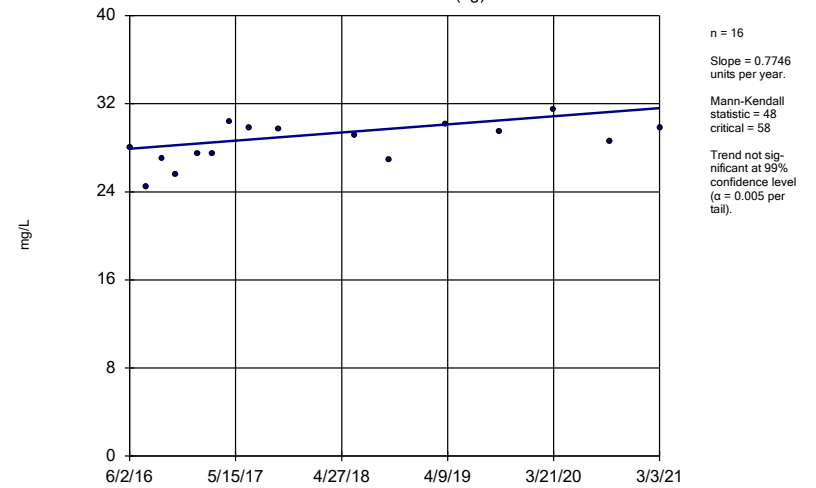
YGWA-30I (bg)



Constituent: Calcium Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

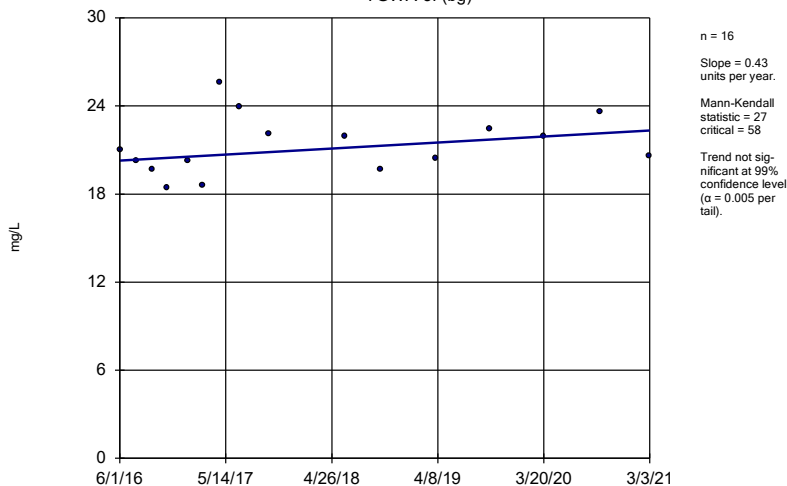
YGWA-3D (bg)



Constituent: Calcium Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

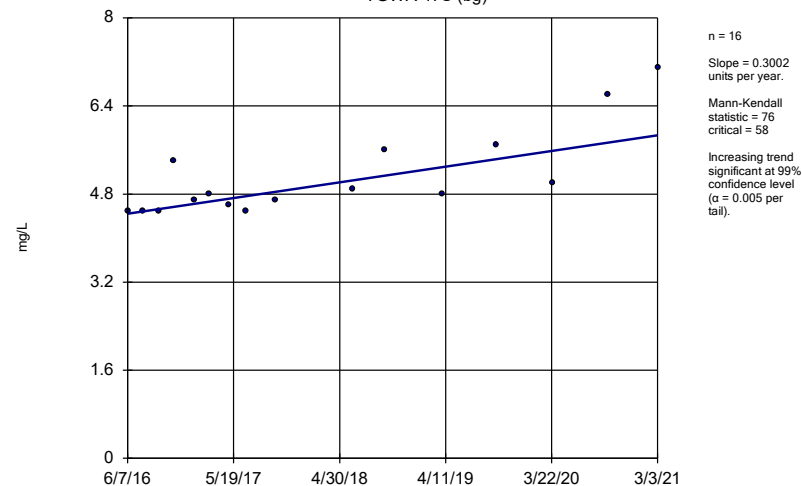
YGWA-3I (bg)



Constituent: Calcium Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

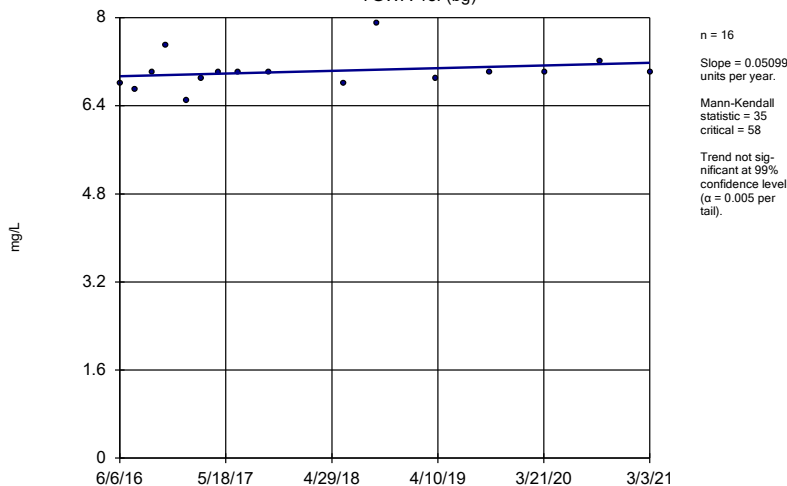
YGWA-17S (bg)



Constituent: Chloride Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

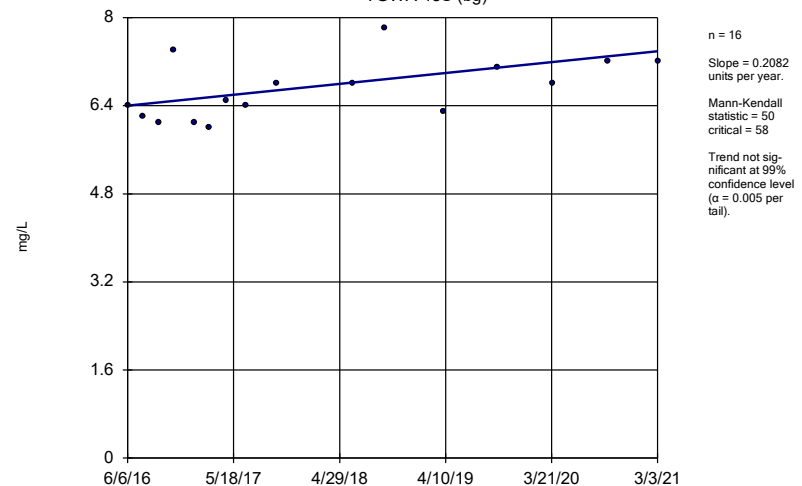
YGWA-18I (bg)



Constituent: Chloride Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

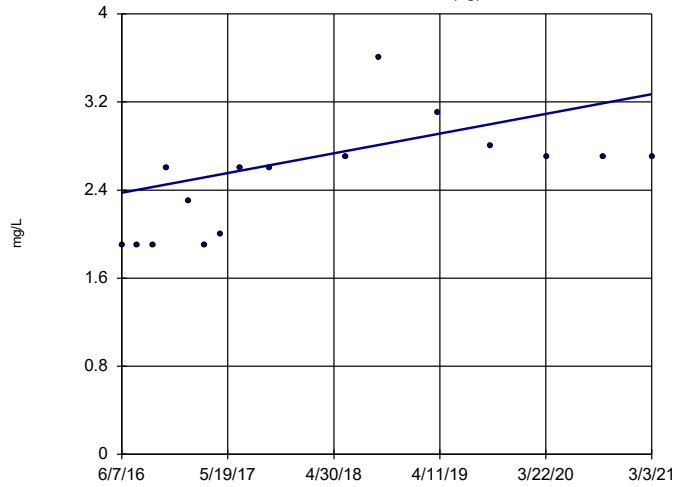
YGWA-18S (bg)



Constituent: Chloride Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

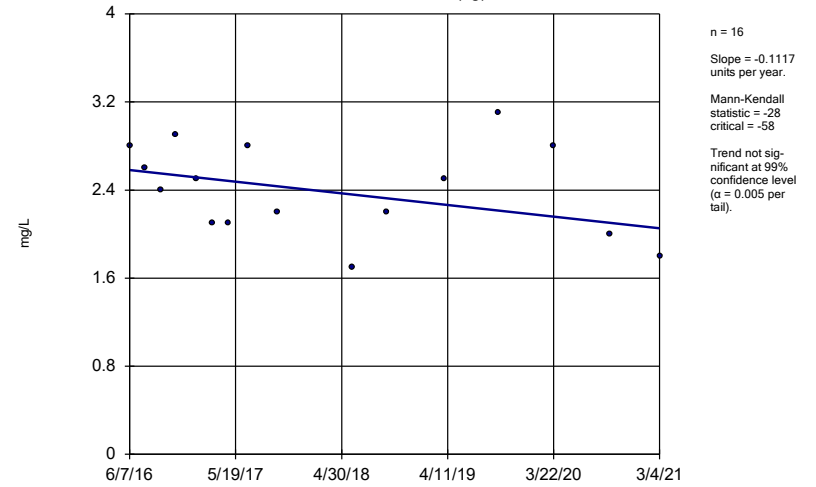
YGWA-20S (bg)



Constituent: Chloride Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

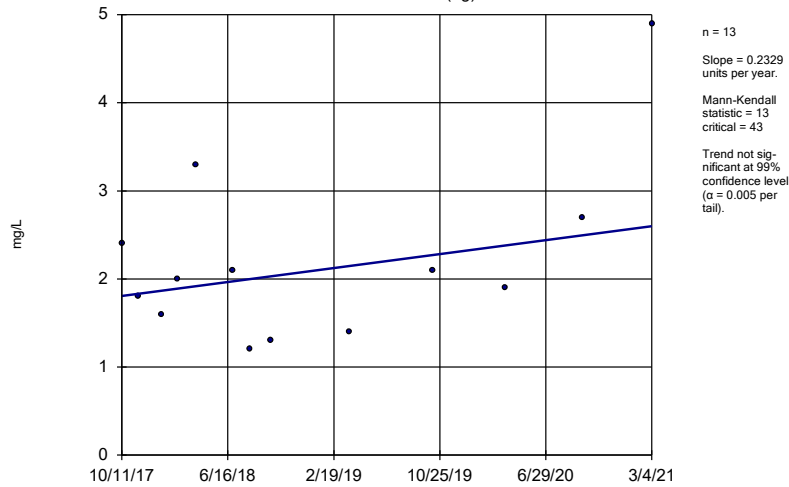
YGWA-211 (bg)



Constituent: Chloride Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

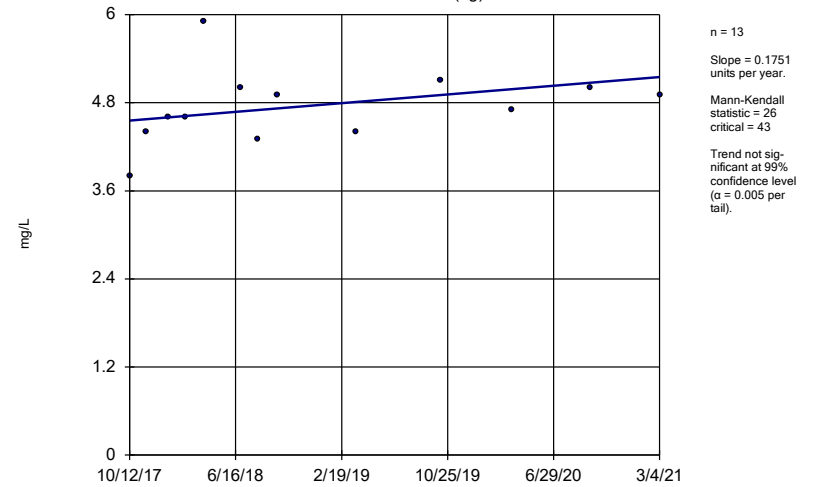
YGWA-39 (bg)



Constituent: Chloride Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

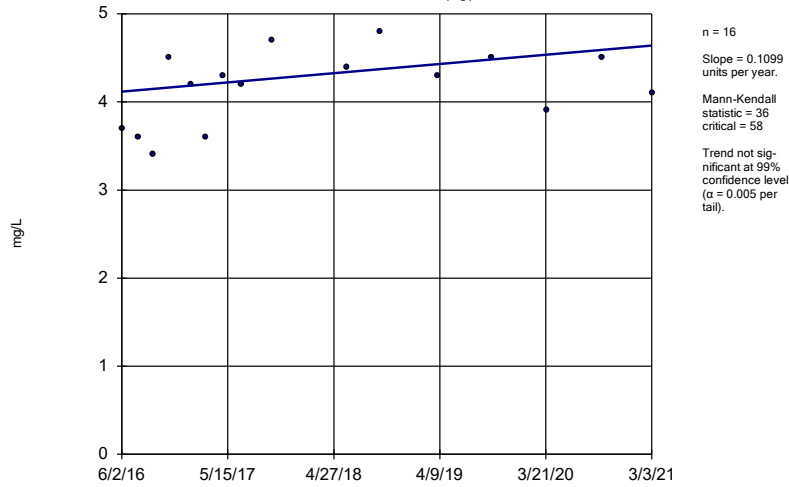
YGWA-40 (bg)



Constituent: Chloride Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

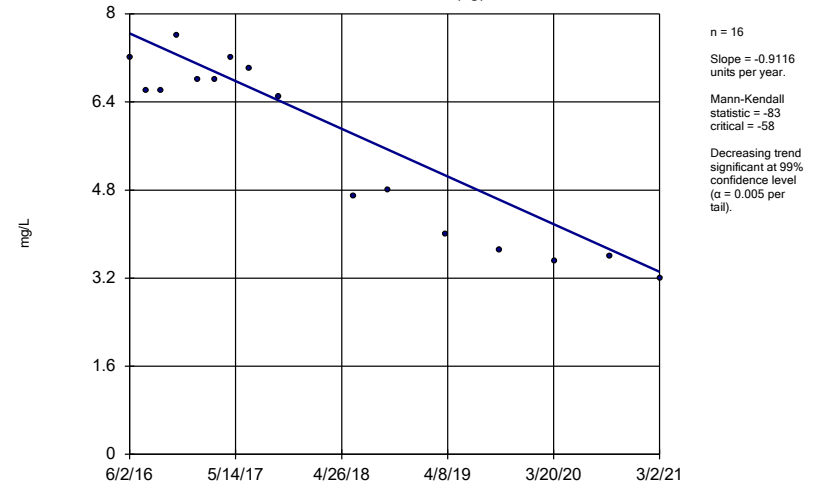
YGWA-4l (bg)



Constituent: Chloride Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

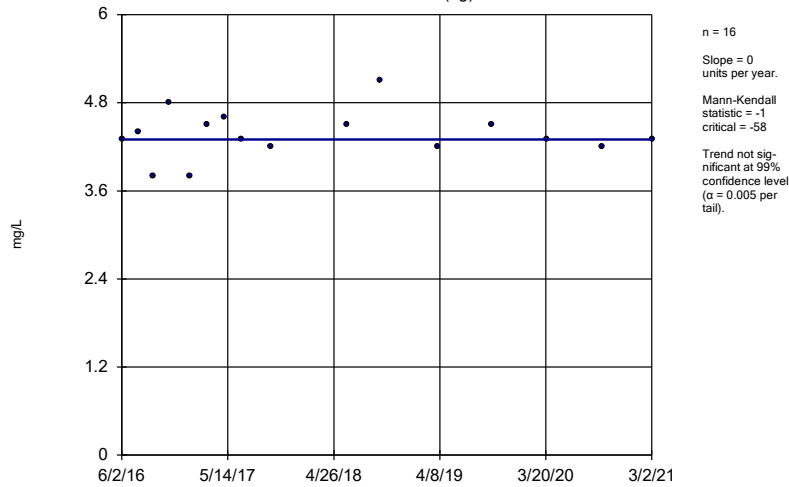
YGWA-5D (bg)



Constituent: Chloride Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

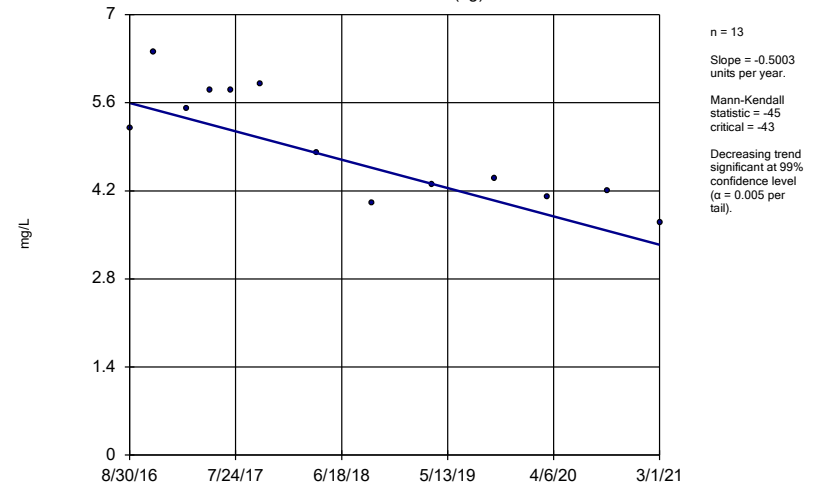
YGWA-5l (bg)



Constituent: Chloride Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

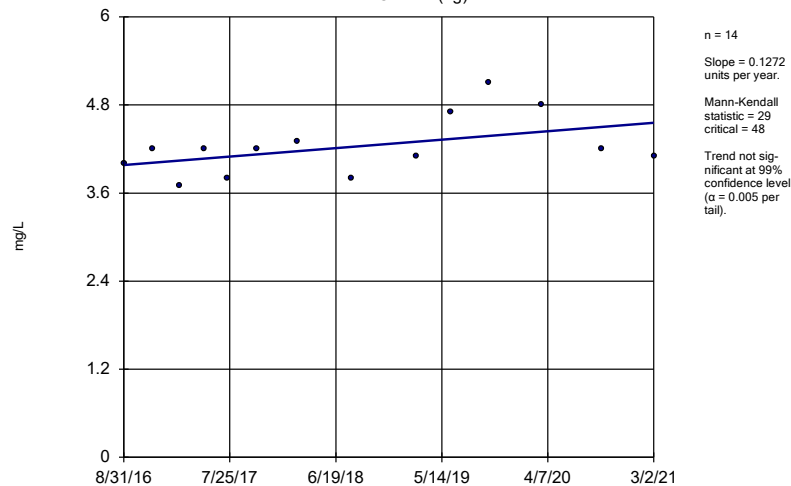
YGWA-47 (bg)



Constituent: Chloride Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

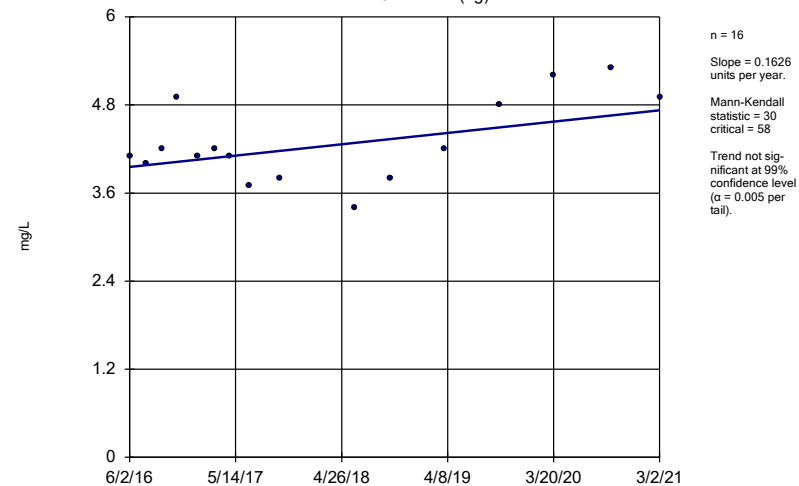
GWA-2 (bg)



Constituent: Chloride Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

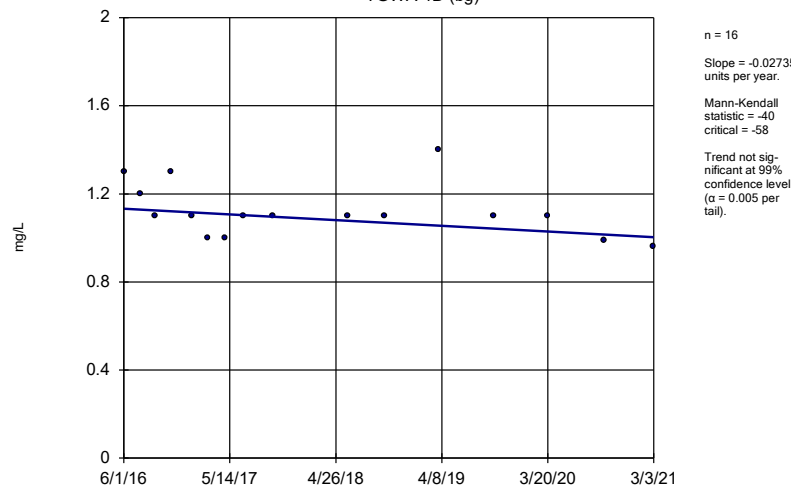
YGWA-14S (bg)



Constituent: Chloride Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

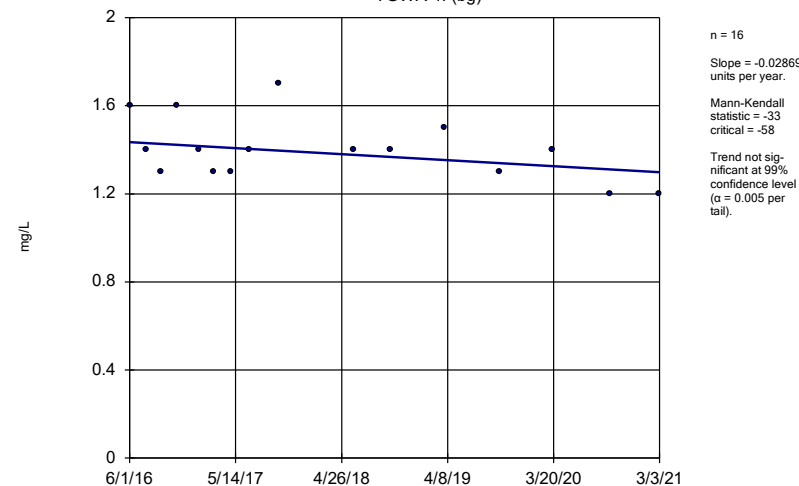
YGWA-1D (bg)



Constituent: Chloride Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

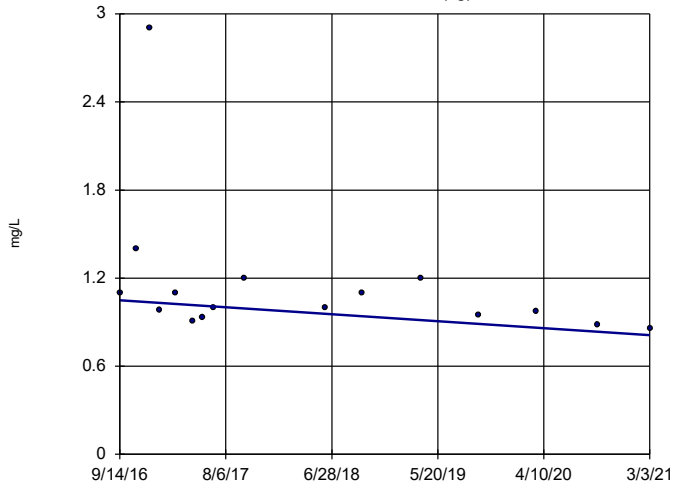
Sen's Slope Estimator

YGWA-1I (bg)



Sen's Slope Estimator

YGWA-2I (bg)

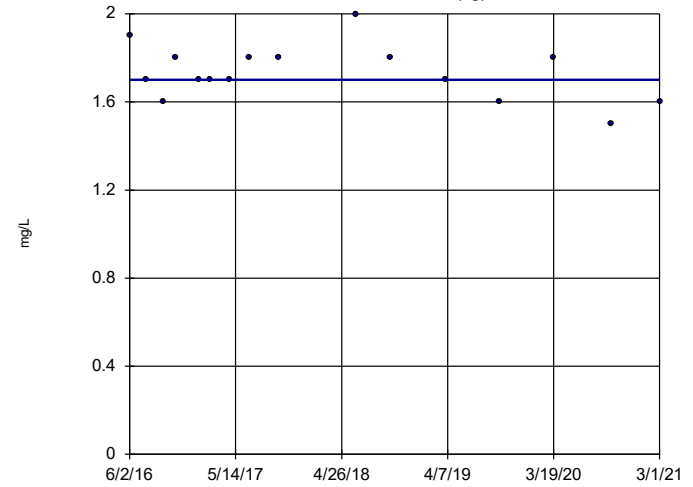


n = 16
 Slope = -0.05296
 units per year.
 Mann-Kendall
 statistic = -45
 critical = -58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-30I (bg)

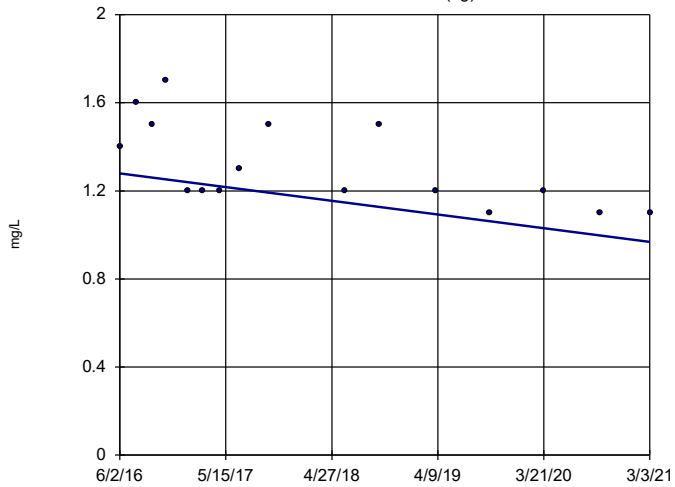


n = 16
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -21
 critical = -58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-3D (bg)

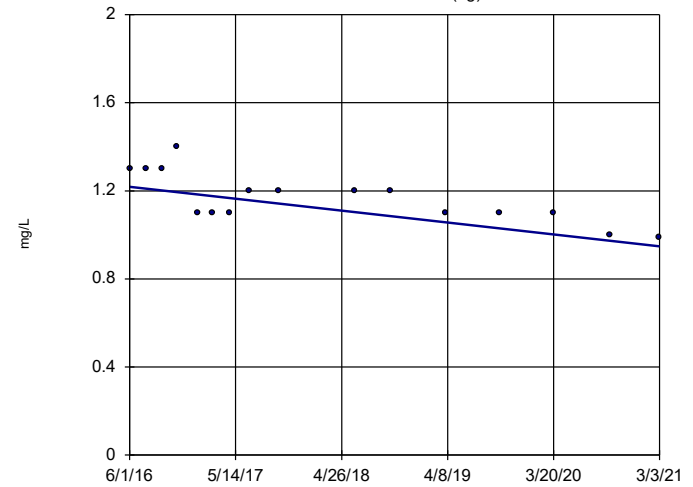


n = 16
 Slope = -0.06529
 units per year.
 Mann-Kendall
 statistic = -59
 critical = -58
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-3I (bg)

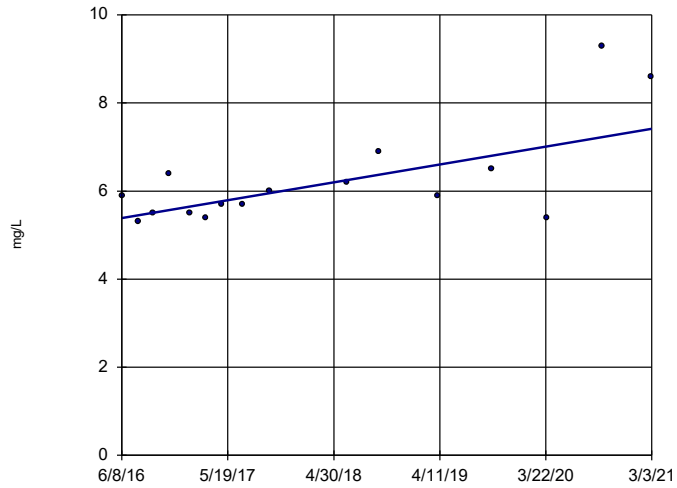


n = 16
 Slope = -0.05699
 units per year.
 Mann-Kendall
 statistic = -66
 critical = -58
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

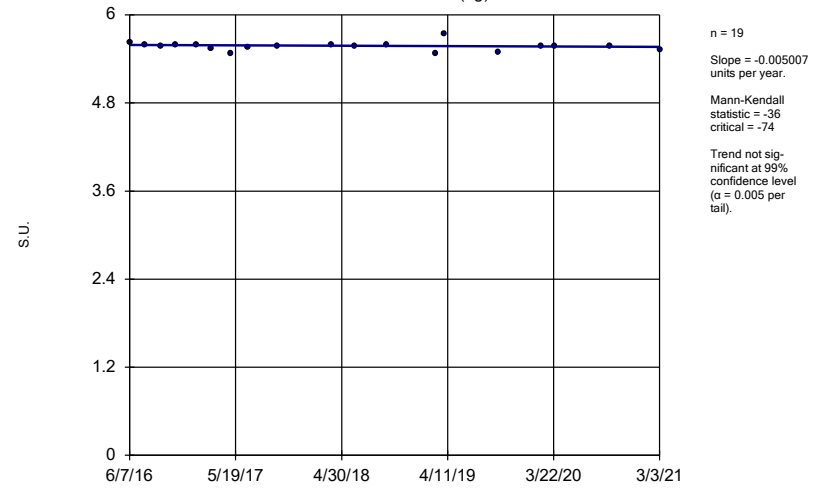
YGWC-24SA



Constituent: Chloride Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

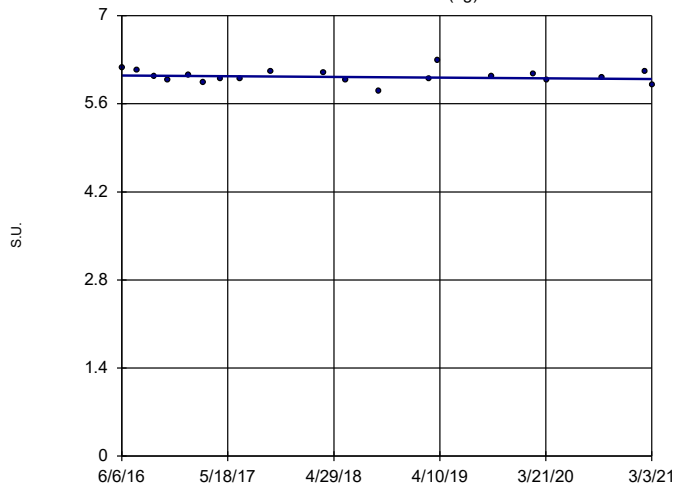
YGWA-17S (bg)



Constituent: pH Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

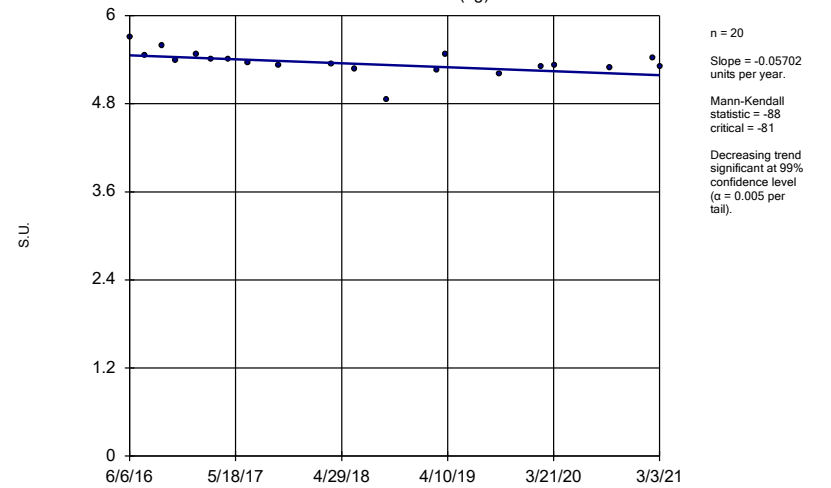
YGWA-18I (bg)



Constituent: pH Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

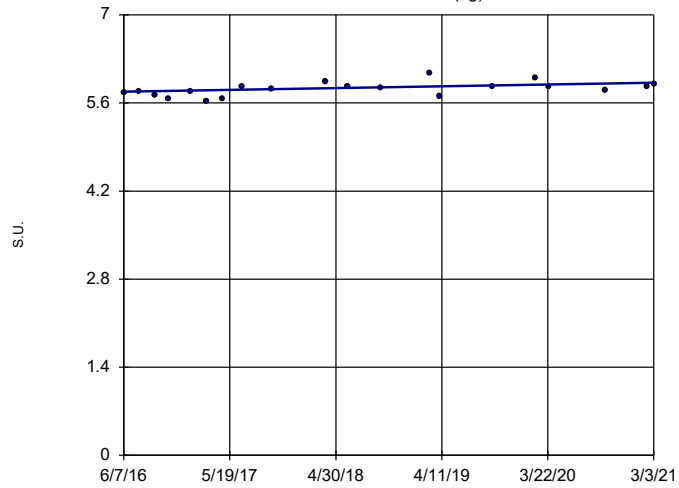
YGWA-18S (bg)



Constituent: pH Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

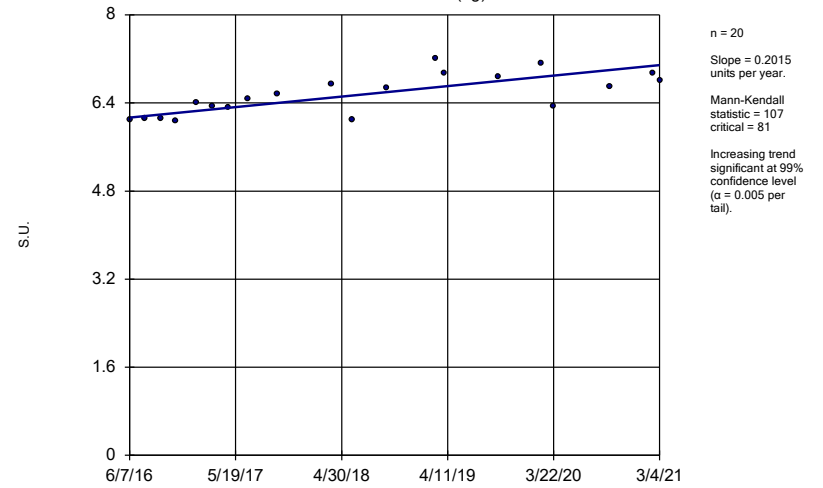
YGWA-20S (bg)



Constituent: pH Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

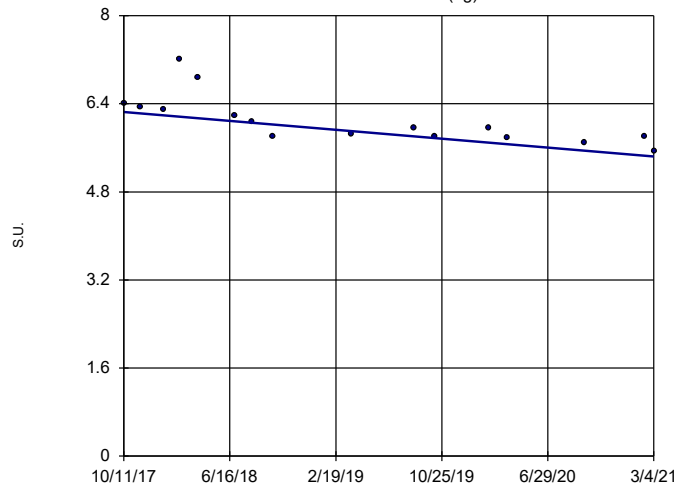
YGWA-211 (bg)



Constituent: pH Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

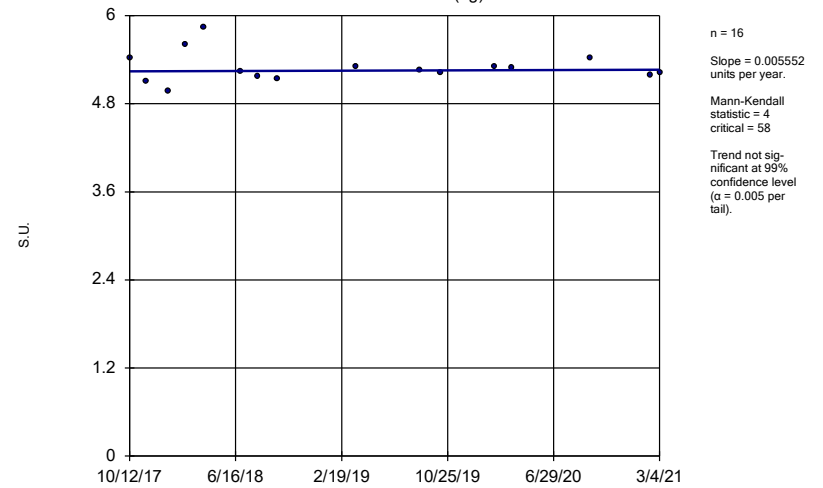
YGWA-39 (bg)



Constituent: pH Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

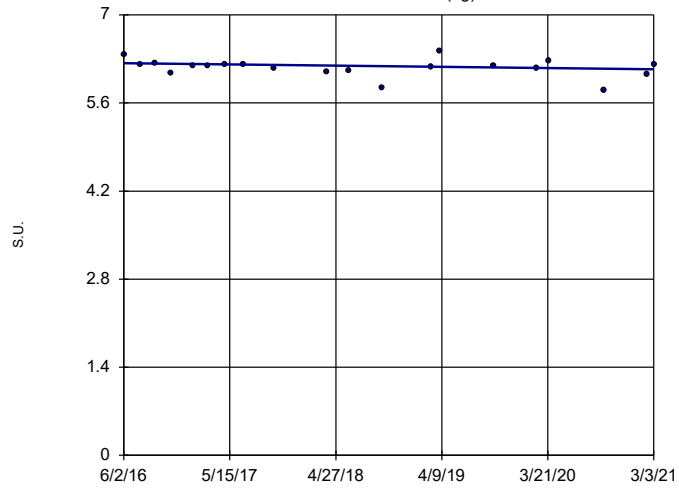
YGWA-40 (bg)



Constituent: pH Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-4I (bg)

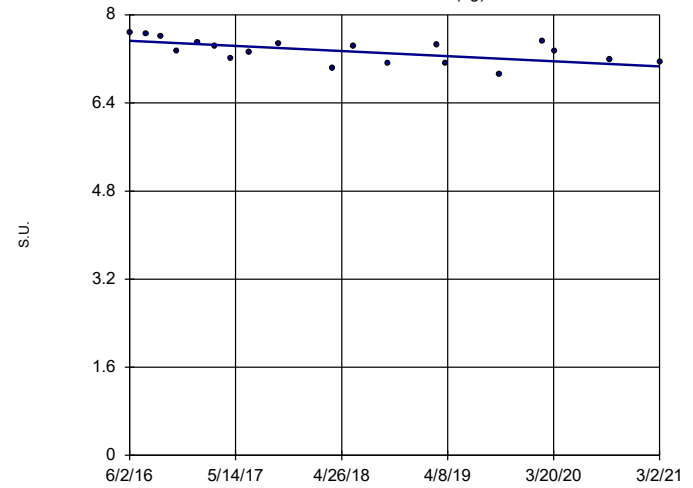


n = 20
 Slope = -0.02017 units per year.
 Mann-Kendall statistic = -44
 critical = -81
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-5D (bg)

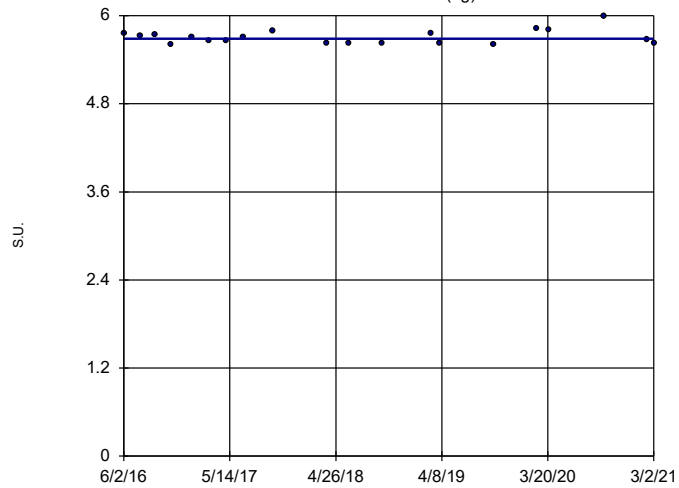


n = 19
 Slope = -0.09849 units per year.
 Mann-Kendall statistic = -78
 critical = -74
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-5I (bg)

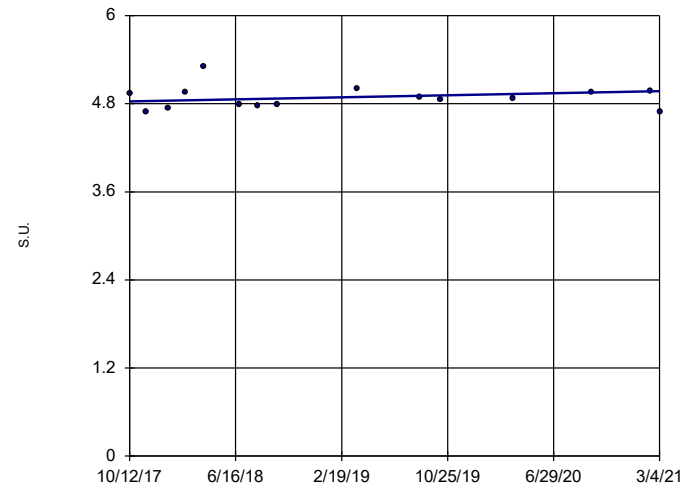


n = 20
 Slope = 0 units per year.
 Mann-Kendall statistic = -7
 critical = -81
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWC-4I

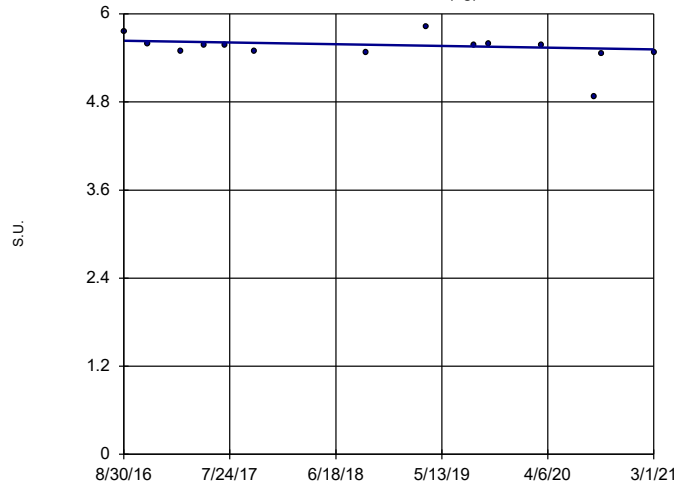


n = 15
 Slope = 0.04117 units per year.
 Mann-Kendall statistic = 13
 critical = 53
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 5/6/2021 8:50 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-47 (bg)

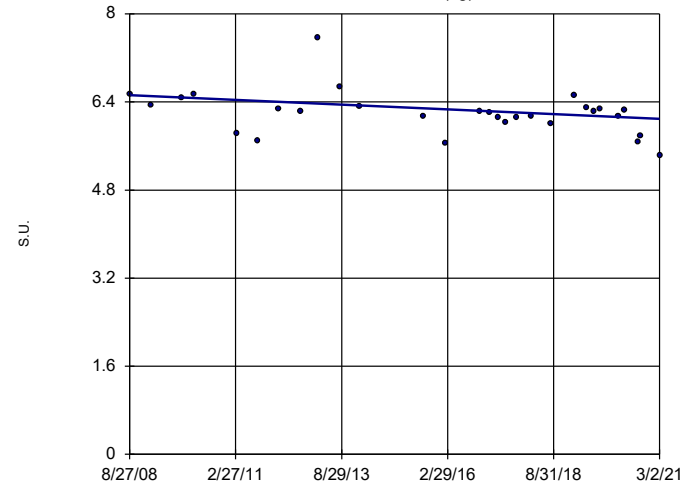


n = 14
 Slope = -0.0262
 units per year.
 Mann-Kendall
 statistic = -37
 critical = -48
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: pH Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

GWA-2 (bg)

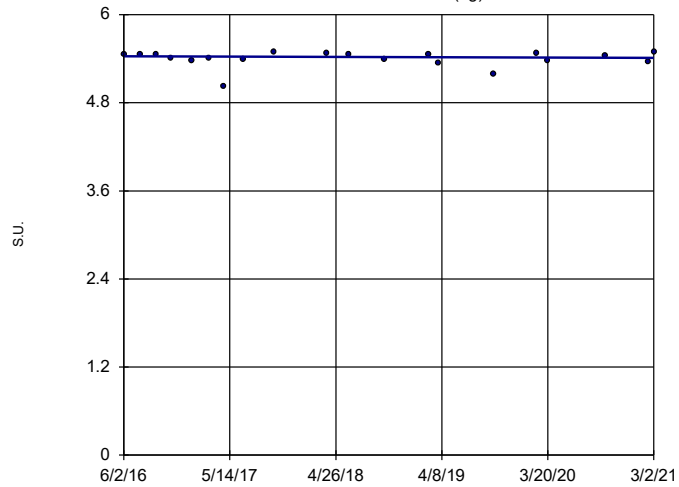


n = 29
 Slope = -0.03439
 units per year.
 Mann-Kendall
 statistic = -128
 critical = -139
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: pH Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-14S (bg)

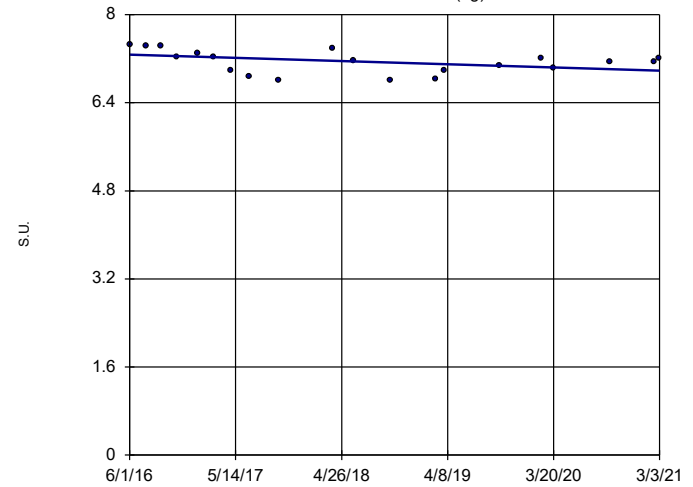


n = 20
 Slope = -0.003962
 units per year.
 Mann-Kendall
 statistic = -13
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: pH Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-1D (bg)

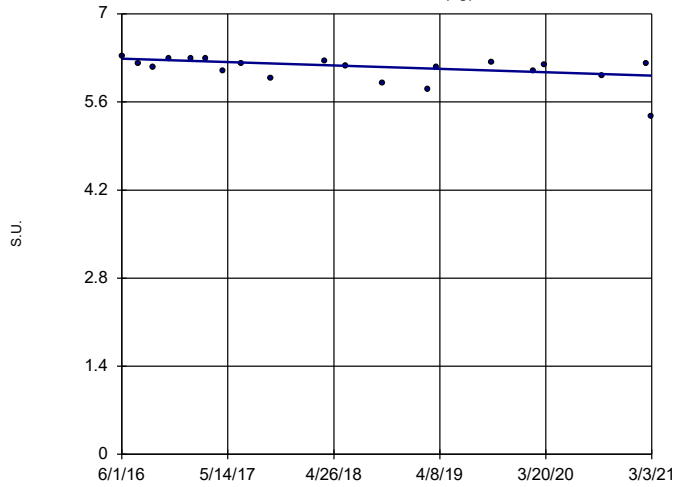


n = 20
 Slope = -0.06046
 units per year.
 Mann-Kendall
 statistic = -60
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: pH Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-11 (bg)

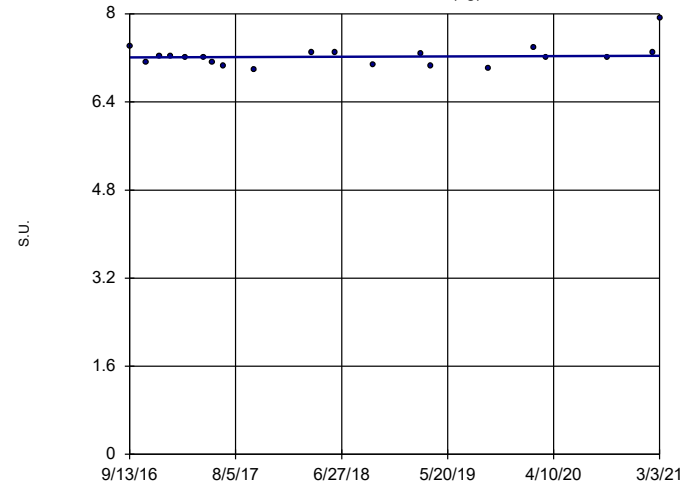


n = 20
Slope = -0.05767
units per year.
Mann-Kendall
statistic = -78
critical = -81
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: pH Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-21 (bg)

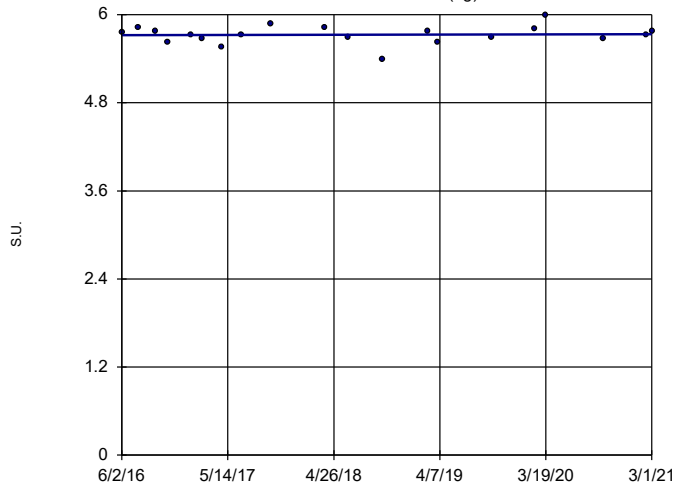


n = 20
Slope = 0.005696
units per year.
Mann-Kendall
statistic = 10
critical = 81
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: pH Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-30I (bg)

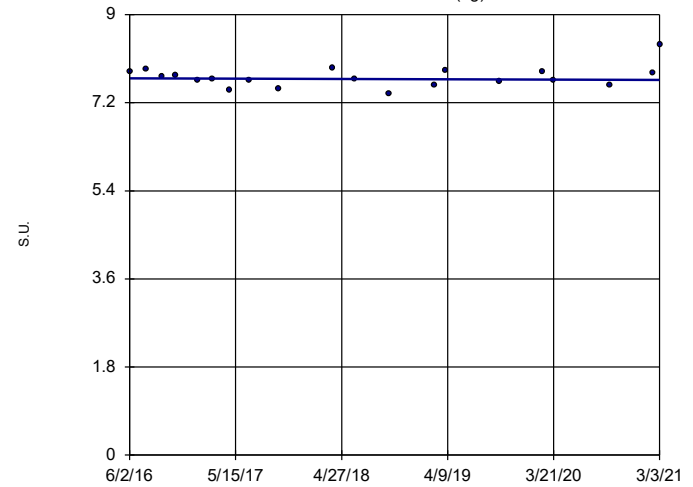


n = 20
Slope = 0.002608
units per year.
Mann-Kendall
statistic = 7
critical = 81
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: pH Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-3D (bg)

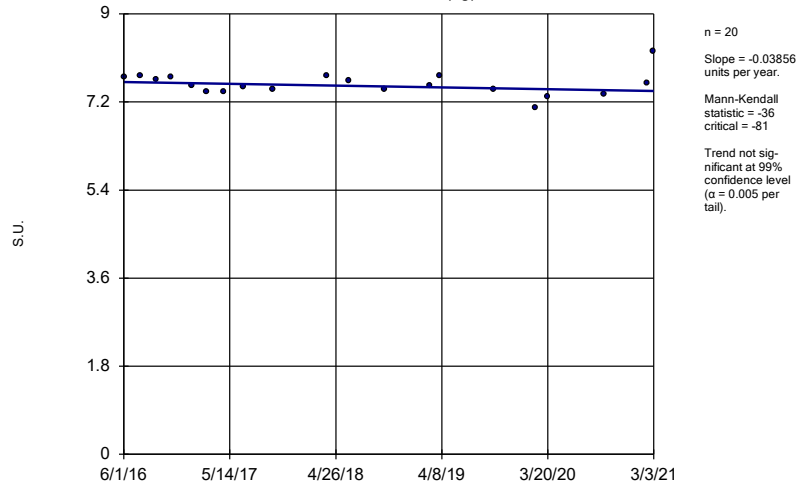


n = 20
Slope = -0.006892
units per year.
Mann-Kendall
statistic = -11
critical = -81
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: pH Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

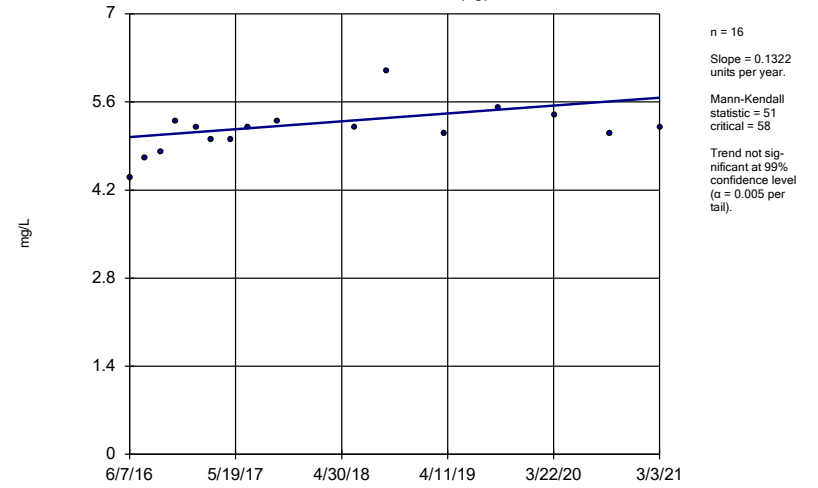
YGWA-3I (bg)



Constituent: pH Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

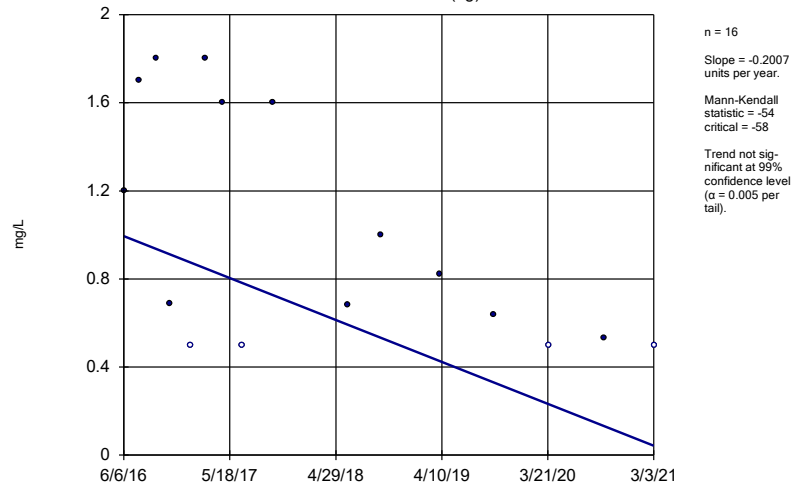
YGWA-17S (bg)



Constituent: Sulfate Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

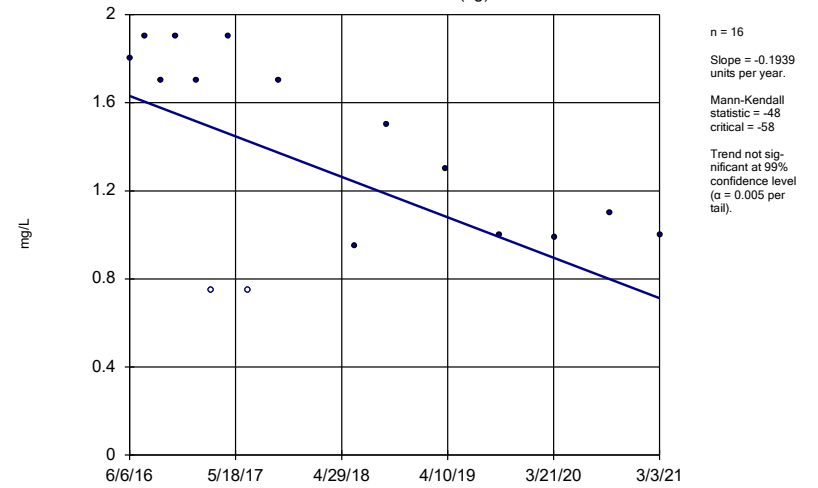
YGWA-18I (bg)



Constituent: Sulfate Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

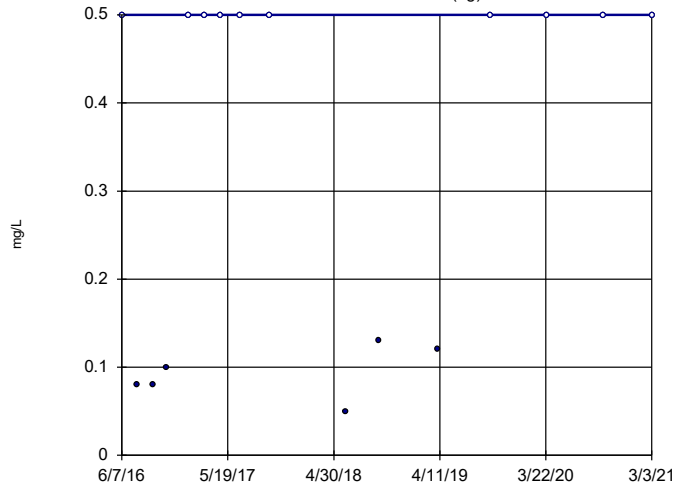
YGWA-18S (bg)



Constituent: Sulfate Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-20S (bg)

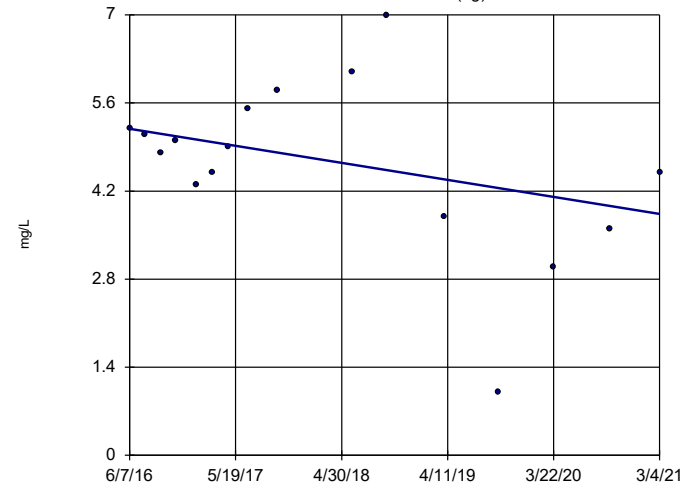


n = 16
Slope = 0
units per year.
Mann-Kendall
statistic = 24
critical = 58
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-211 (bg)

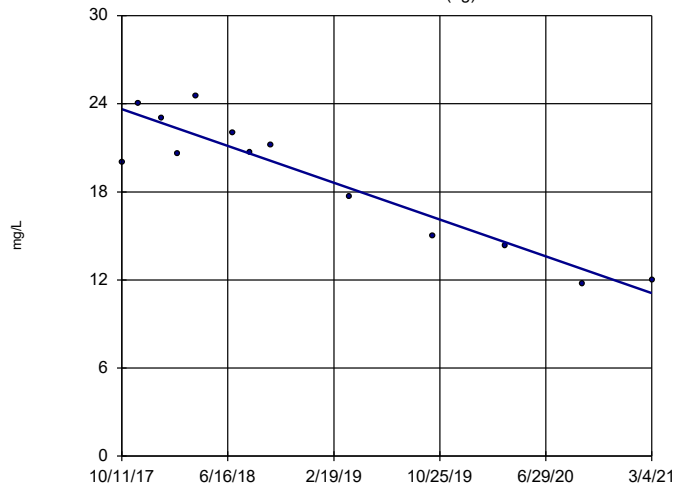


n = 16
Slope = -0.2852
units per year.
Mann-Kendall
statistic = -25
critical = -58
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-39 (bg)

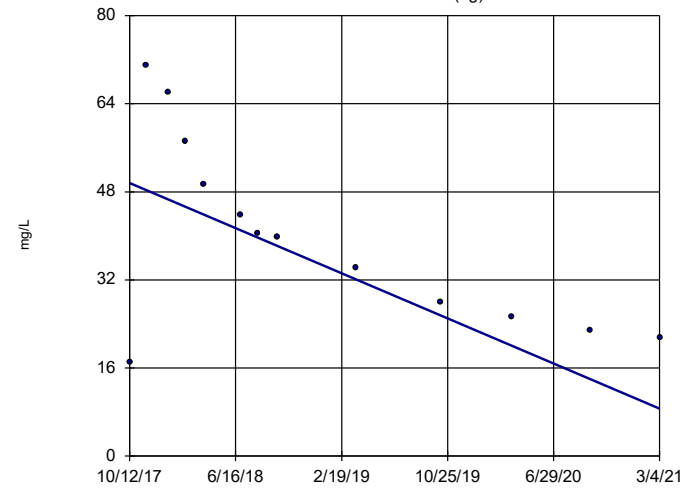


n = 13
Slope = -3.687
units per year.
Mann-Kendall
statistic = -48
critical = -43
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-40 (bg)

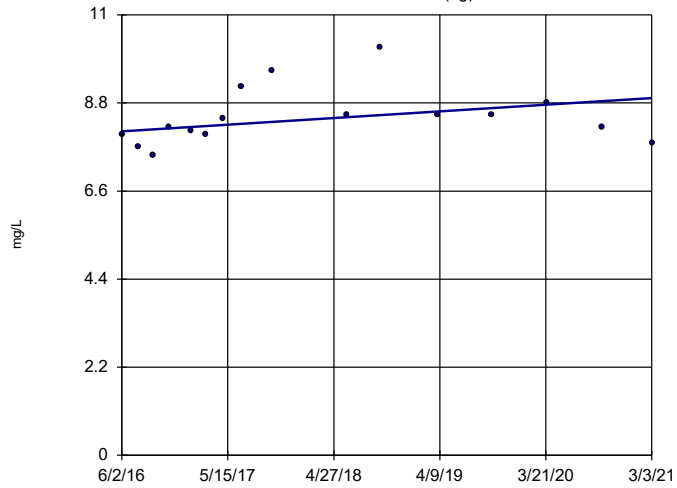


n = 13
Slope = -12.05
units per year.
Mann-Kendall
statistic = -54
critical = -43
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-4l (bg)

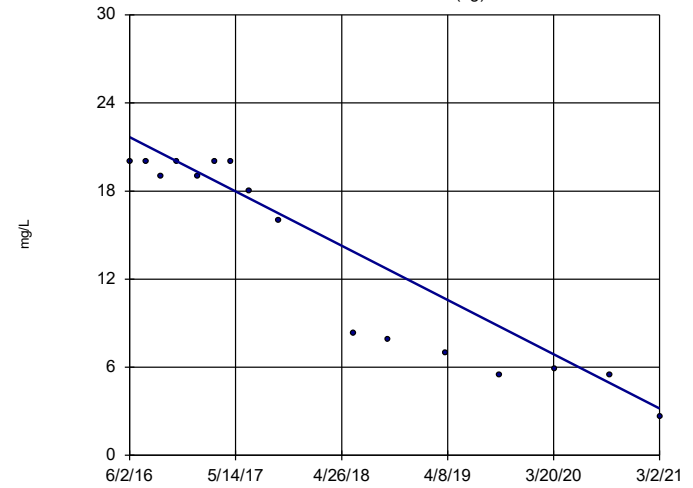


n = 16
 Slope = 0.1751 units per year.
 Mann-Kendall statistic = 39
 critical = 58
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-5D (bg)

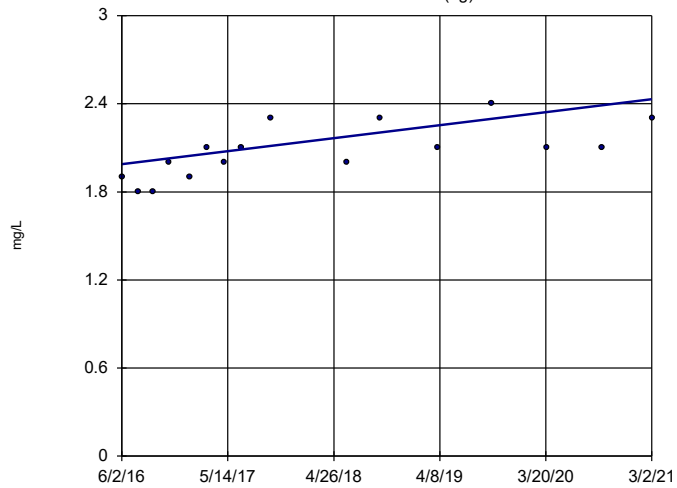


n = 16
 Slope = -3.891 units per year.
 Mann-Kendall statistic = -96
 critical = -58
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-5l (bg)

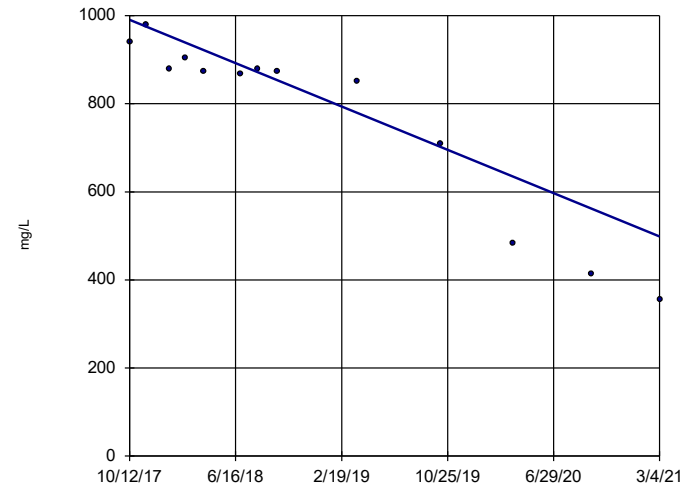


n = 16
 Slope = 0.09335 units per year.
 Mann-Kendall statistic = 70
 critical = 58
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

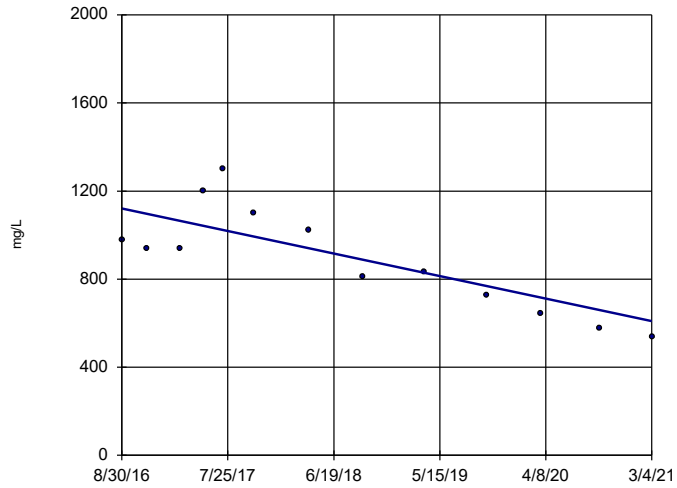
YGWC-38



n = 13
 Slope = -145.1 units per year.
 Mann-Kendall statistic = -67
 critical = -43
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

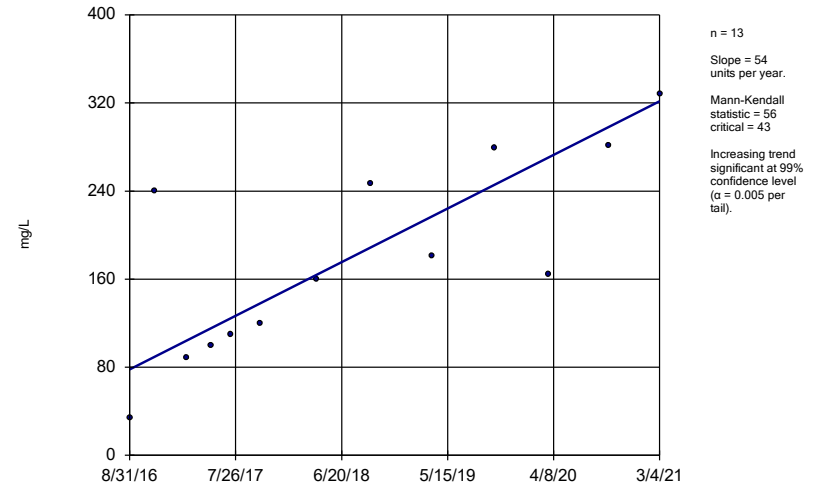
Constituent: Sulfate Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator
YGWC-42



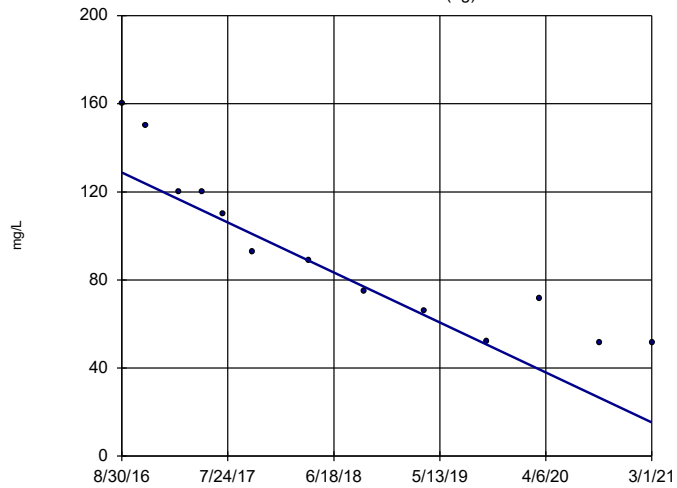
Constituent: Sulfate Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator
YGWC-43



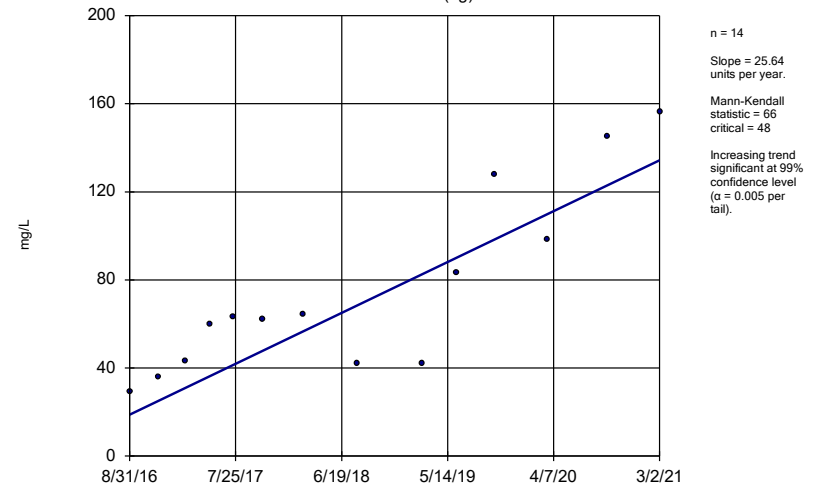
Constituent: Sulfate Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator
YGWA-47 (bg)



Constituent: Sulfate Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

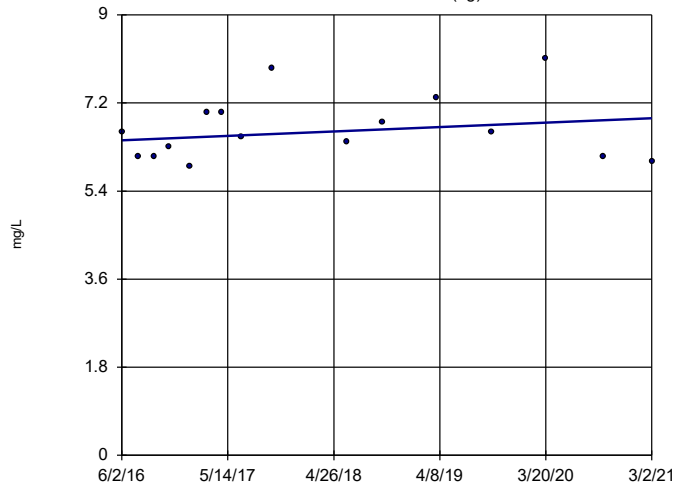
Sen's Slope Estimator
GWA-2 (bg)



Constituent: Sulfate Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-14S (bg)

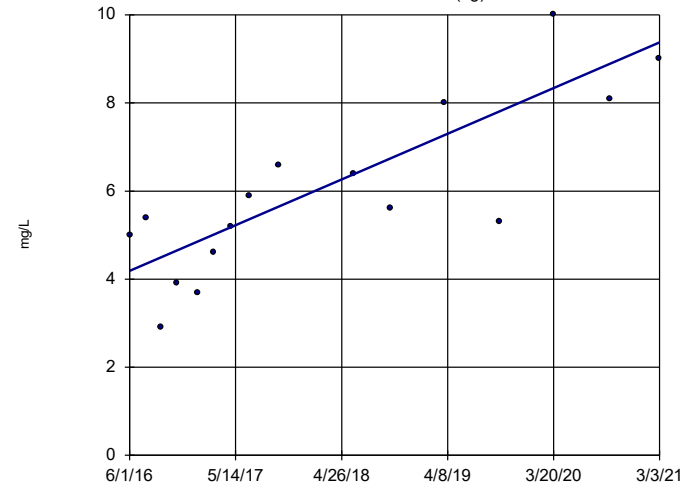


n = 16
 Slope = 0.09469
 units per year.
 Mann-Kendall
 statistic = 17
 critical = 58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-1D (bg)

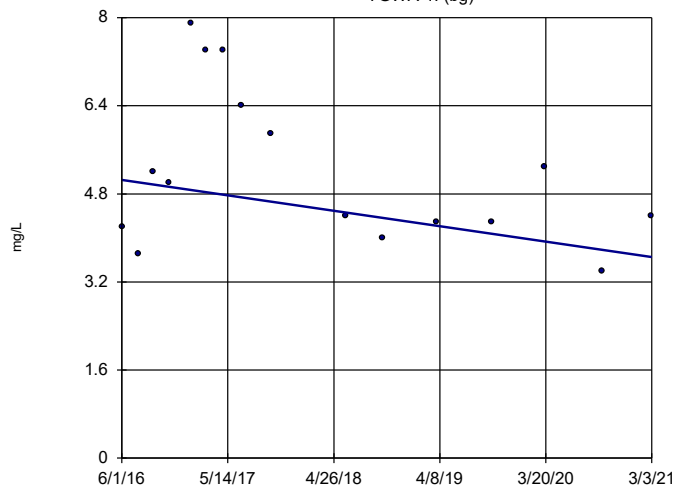


n = 16
 Slope = 1.091
 units per year.
 Mann-Kendall
 statistic = 76
 critical = 58
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-11 (bg)

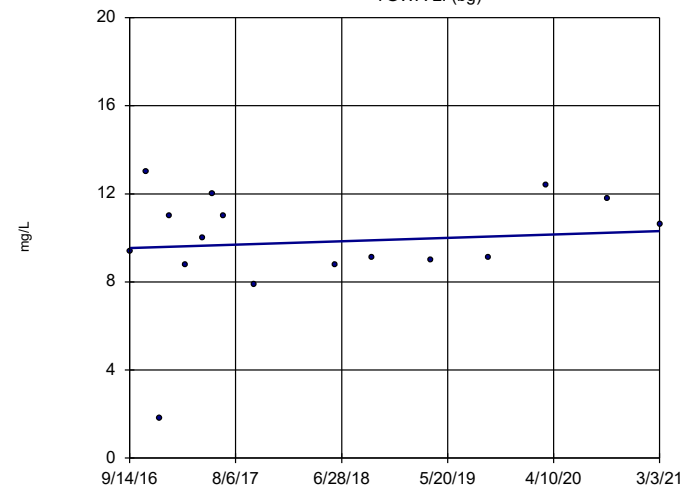


n = 16
 Slope = -0.2947
 units per year.
 Mann-Kendall
 statistic = -23
 critical = -58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-2I (bg)

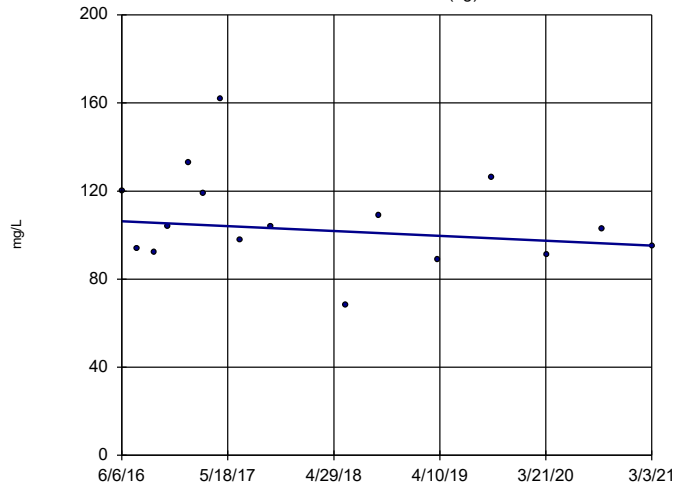


n = 16
 Slope = 0.1728
 units per year.
 Mann-Kendall
 statistic = 11
 critical = 58
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-18I (bg)

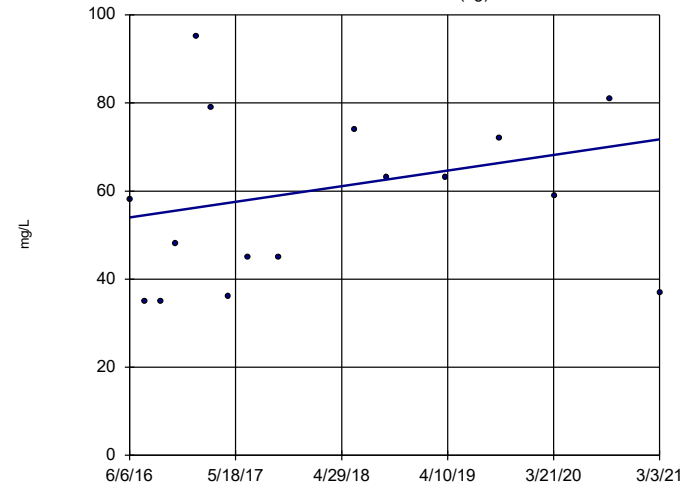


n = 16
 Slope = -2.316
 units per year.
 Mann-Kendall
 statistic = -19
 critical = -58
 Trend not sig-
 nificant at 99%
 confidence level
 (alpha = 0.005 per
 tail).

Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-18S (bg)

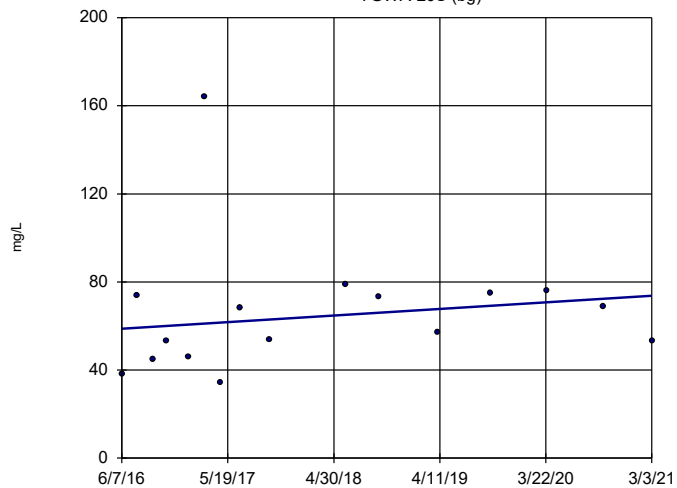


n = 16
 Slope = 3.74
 units per year.
 Mann-Kendall
 statistic = 25
 critical = 58
 Trend not sig-
 nificant at 99%
 confidence level
 (alpha = 0.005 per
 tail).

Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-20S (bg)

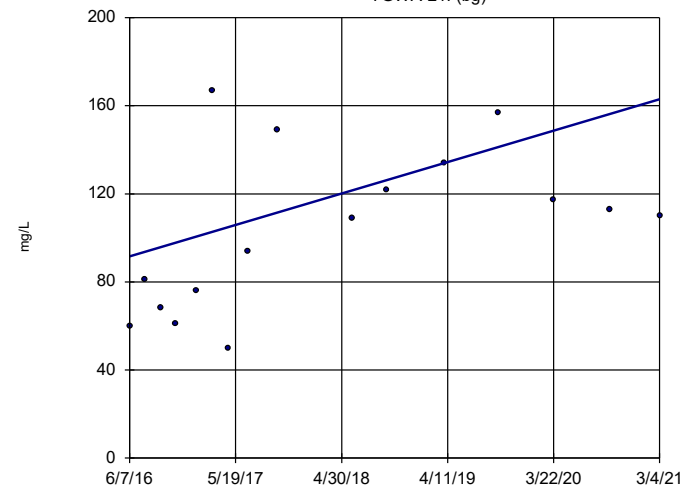


n = 16
 Slope = 3.156
 units per year.
 Mann-Kendall
 statistic = 31
 critical = 58
 Trend not sig-
 nificant at 99%
 confidence level
 (alpha = 0.005 per
 tail).

Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-21I (bg)

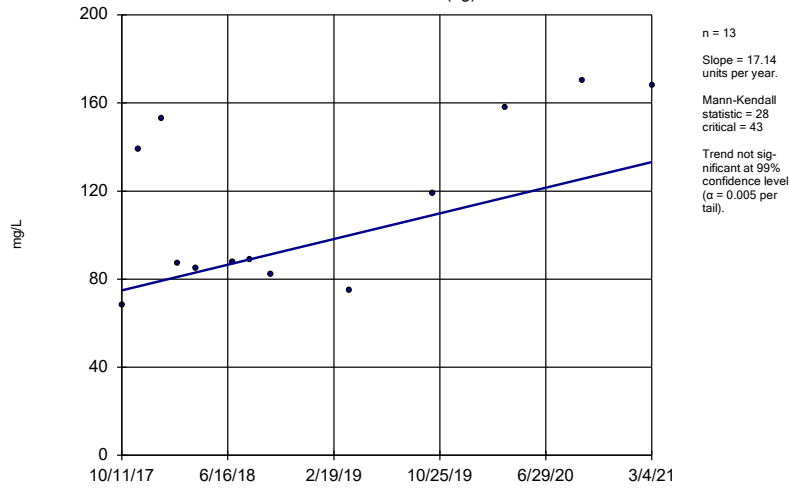


n = 16
 Slope = 15.05
 units per year.
 Mann-Kendall
 statistic = 46
 critical = 58
 Trend not sig-
 nificant at 99%
 confidence level
 (alpha = 0.005 per
 tail).

Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

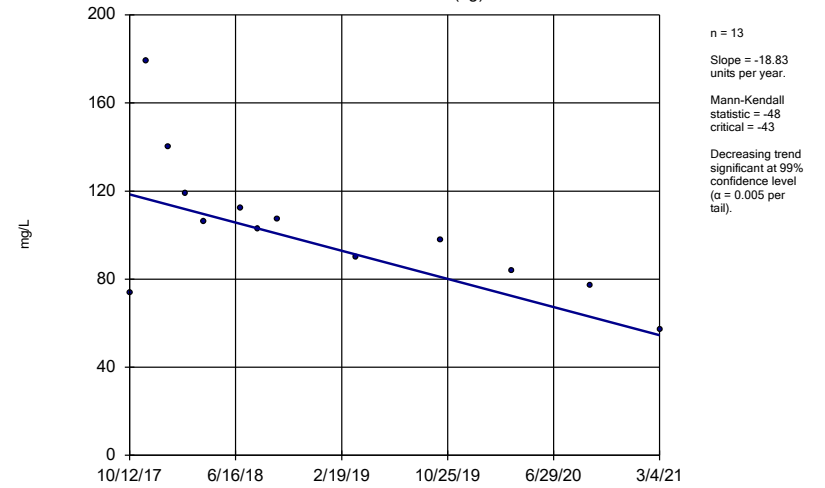
YGWA-39 (bg)



Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

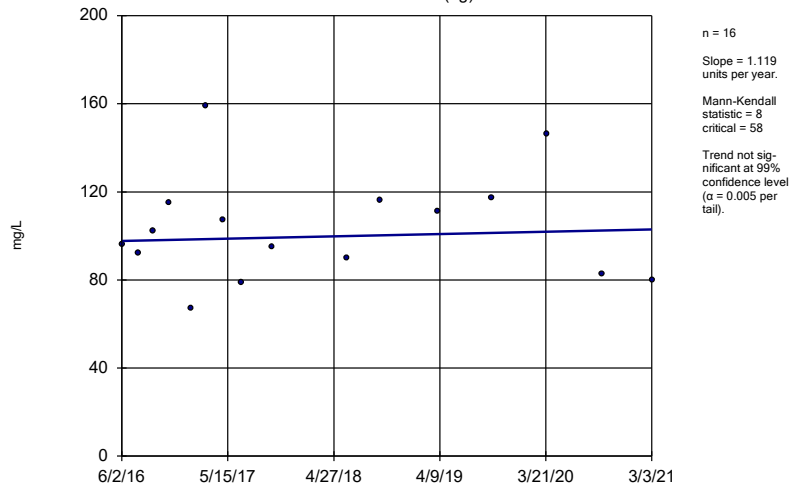
YGWA-40 (bg)



Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

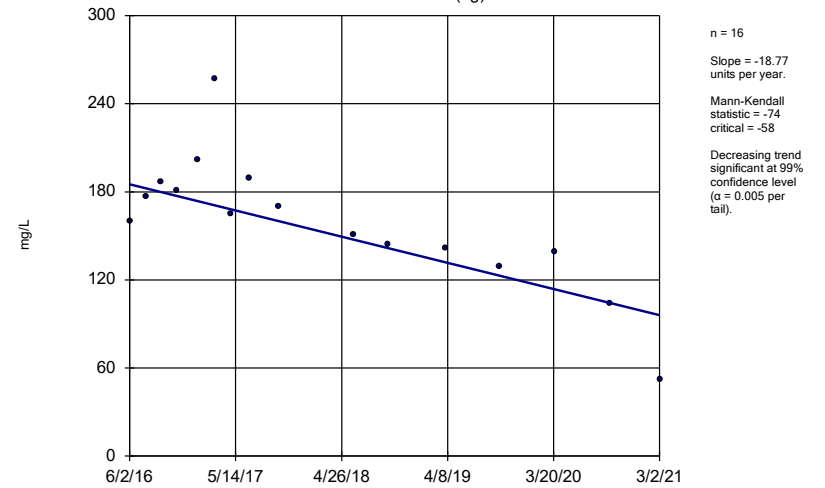
YGWA-41 (bg)



Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

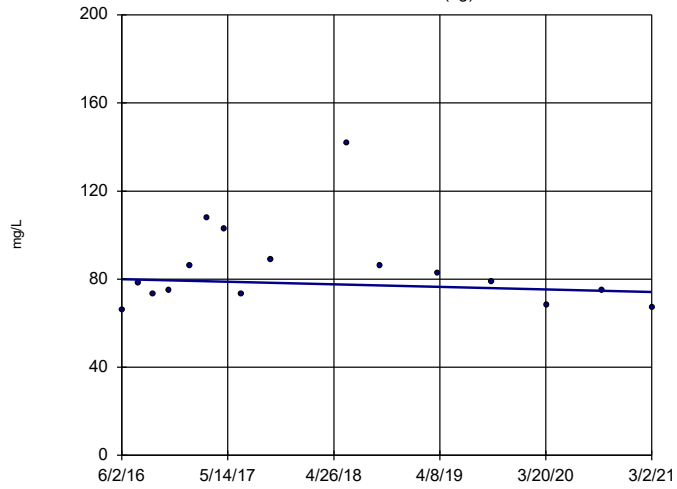
YGWA-5D (bg)



Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-5l (bg)

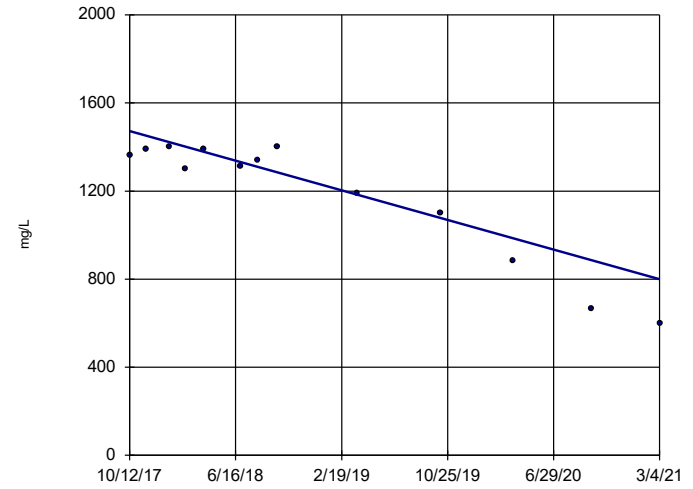


n = 16
 Slope = -1.204
 units per year.
 Mann-Kendall
 statistic = -7
 critical = -58
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWC-38

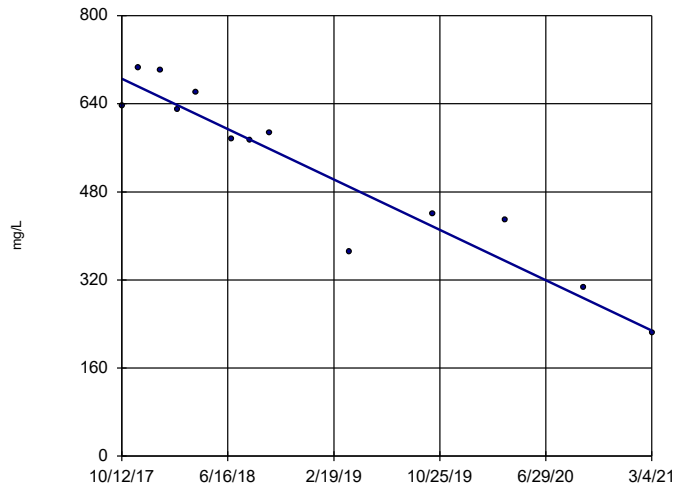


n = 13
 Slope = -198
 units per year.
 Mann-Kendall
 statistic = -48
 critical = -43
 Decreasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWC-41

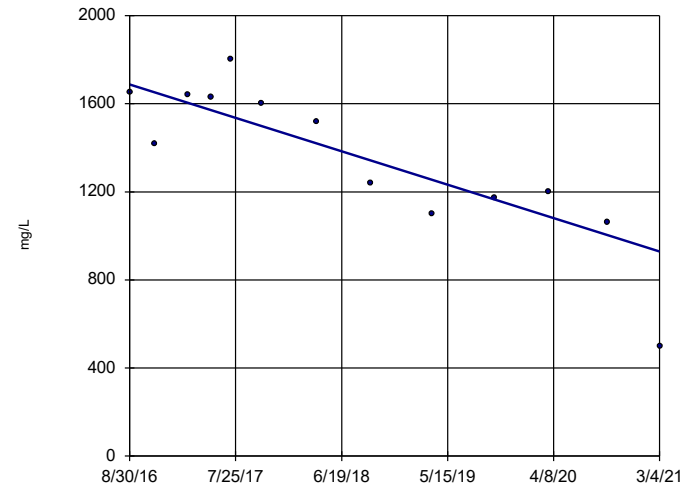


n = 13
 Slope = -134.8
 units per year.
 Mann-Kendall
 statistic = -62
 critical = -43
 Decreasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

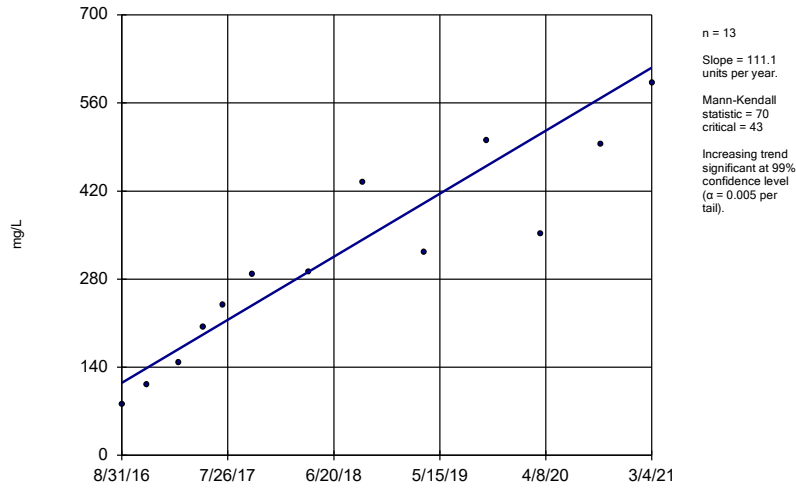
YGWC-42



n = 13
 Slope = -168.3
 units per year.
 Mann-Kendall
 statistic = -56
 critical = -43
 Decreasing trend
 significant at 99%
 confidence level
 (α = 0.005 per
 tail).

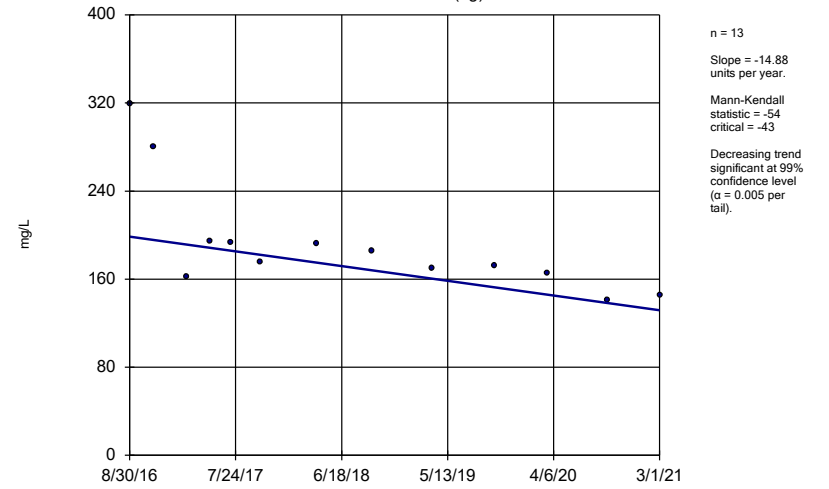
Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator
YGWC-43



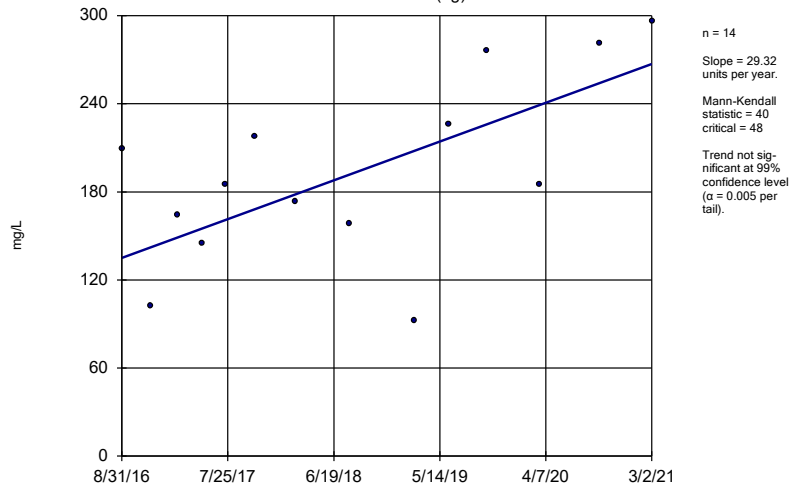
Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator
YGWA-47 (bg)



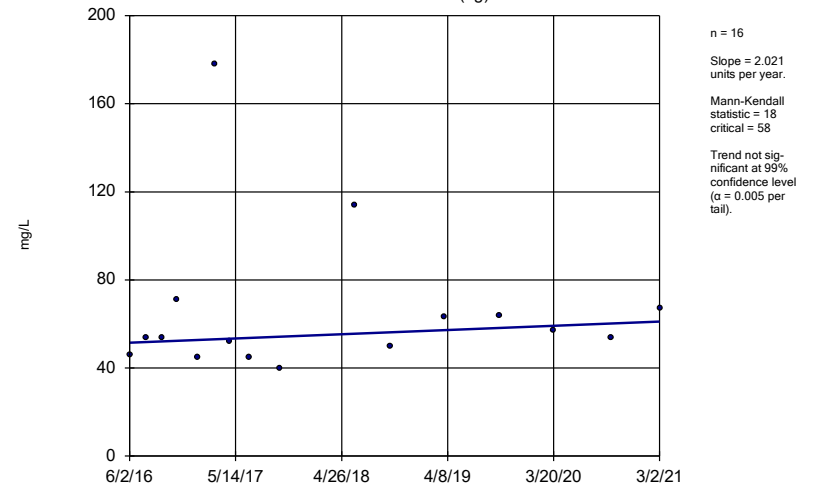
Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator
GWA-2 (bg)



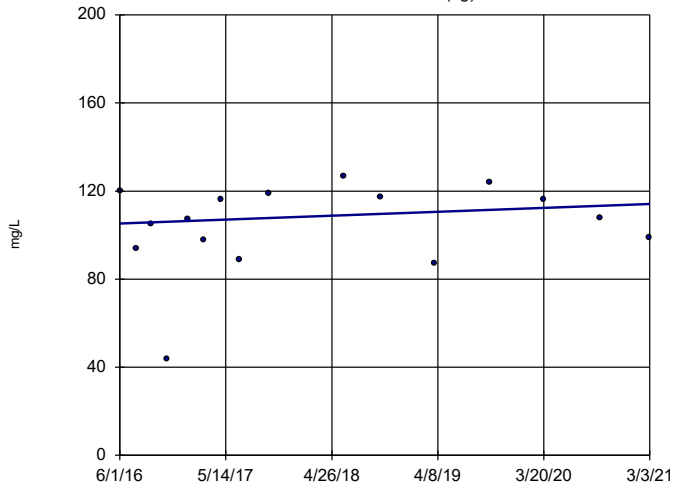
Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator
YGWA-14S (bg)



Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

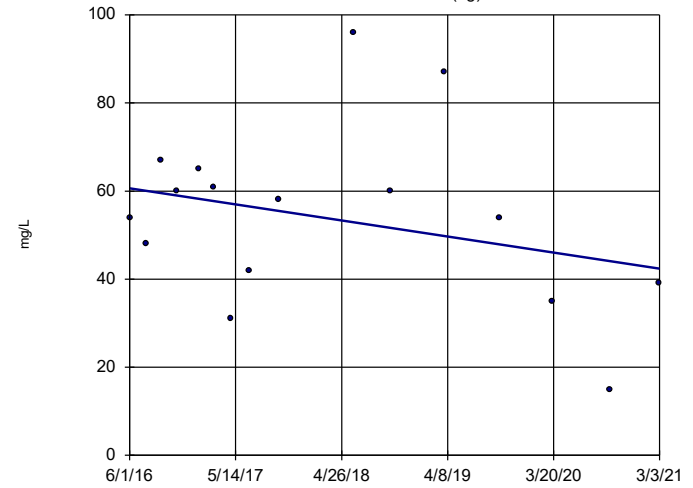
Sen's Slope Estimator YGWA-1D (bg)



n = 16
 Slope = 1.869
 units per year.
 Mann-Kendall
 statistic = 13
 critical = 58
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

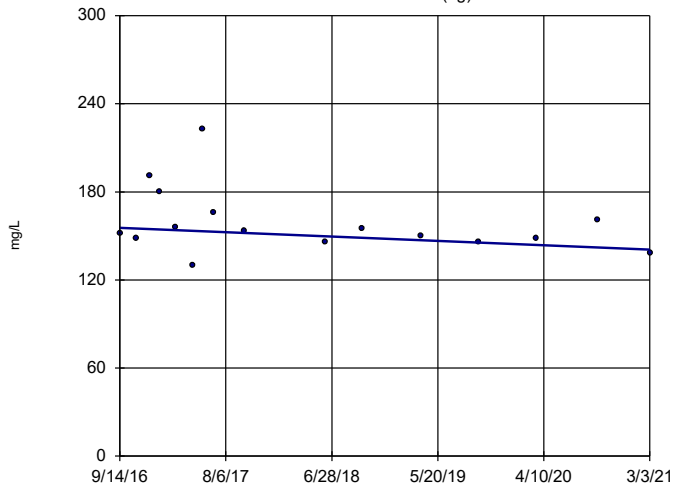
Sen's Slope Estimator YGWA-1I (bg)



n = 16
 Slope = -3.828
 units per year.
 Mann-Kendall
 statistic = -26
 critical = -58
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

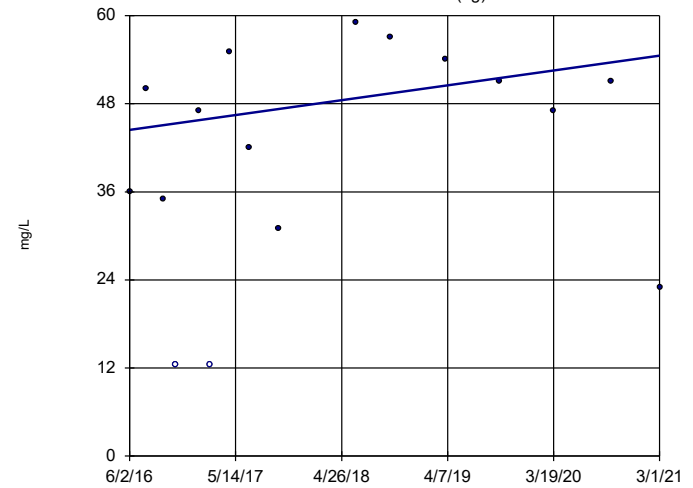
Sen's Slope Estimator YGWA-2I (bg)



n = 16
 Slope = -3.302
 units per year.
 Mann-Kendall
 statistic = -32
 critical = -58
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator YGWA-30I (bg)

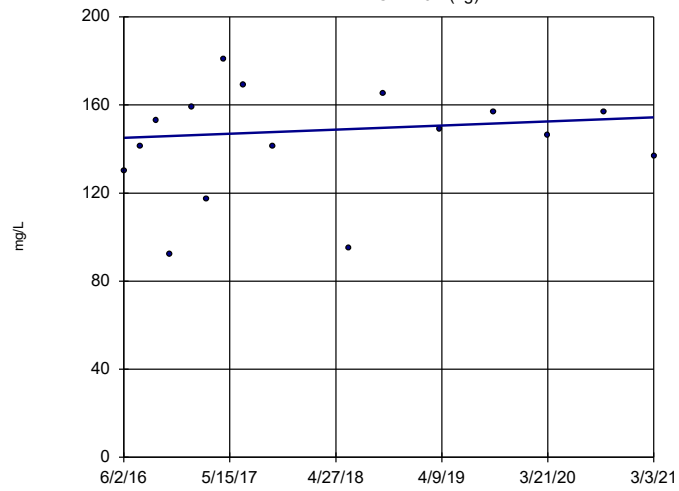


n = 16
 Slope = 2.131
 units per year.
 Mann-Kendall
 statistic = 17
 critical = 58
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-3D (bg)

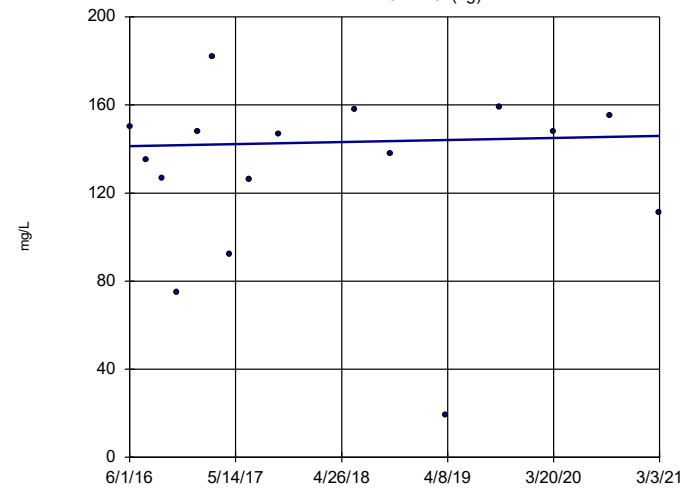


n = 16
Slope = 1.956
units per year.
Mann-Kendall
statistic = 12
critical = 58
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:51 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-3I (bg)



n = 16
Slope = 0.9644
units per year.
Mann-Kendall
statistic = 5
critical = 58
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Total Dissolved Solids Analysis Run 5/6/2021 8:51 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 5/6/2021, 8:57 PM

Constituent	Upper Lim.	Lower Lim.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.0047	n/a	n/a	315	n/a	n/a	86.03	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	0.005	n/a	n/a	363	n/a	n/a	77.96	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	0.071	n/a	n/a	363	n/a	n/a	3.03	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	0.0005	n/a	n/a	347	n/a	n/a	81.27	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	0.0005	n/a	n/a	347	n/a	n/a	95.68	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	0.0093	n/a	n/a	315	n/a	n/a	77.46	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	0.035	n/a	n/a	360	n/a	n/a	69.72	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	6.92	n/a	n/a	342	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	0.68	n/a	n/a	362	n/a	n/a	68.51	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	0.0013	n/a	n/a	317	n/a	n/a	82.65	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	0.03	n/a	n/a	342	n/a	n/a	27.49	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	0.0002	n/a	n/a	278	n/a	n/a	93.17	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	0.014	n/a	n/a	306	n/a	n/a	59.8	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	0.005	n/a	n/a	345	n/a	n/a	91.59	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	n/a	298	n/a	n/a	96.64	n/a	n/a	NaN	NP Inter(NDs)

FIGURE G.

YATES AMA-R6 GWPS					
Constituent Name	MCL	CCR-Rule Specified	Background Limit	Federal GWPS	State GWPS
Antimony, Total (mg/L)	0.006		0.0047	0.006	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01	0.01
Barium, Total (mg/L)	2		0.071	2	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005	0.005
Chromium, Total (mg/L)	0.1		0.0093	0.1	0.1
Cobalt, Total (mg/L)		0.006	0.035	0.035	0.035
Combined Radium, Total (pCi/L)	5		6.92	6.92	6.92
Fluoride, Total (mg/L)	4		0.68	4	4
Lead, Total (mg/L)		0.015	0.0013	0.015	0.0013
Lithium, Total (mg/L)		0.04	0.03	0.04	0.03
Mercury, Total (mg/L)	0.002		0.0002	0.002	0.002
Molybdenum, Total (mg/L)		0.1	0.014	0.1	0.014
Selenium, Total (mg/L)	0.05		0.005	0.05	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002	0.002

**Grey cell indicates Background Limit is higher than MCL or CCR Rule Specified Level*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residual*

**GWPS = Groundwater Protection Standard*

FIGURE H.

Federal Confidence Intervals - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/6/2021, 9:17 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Beryllium (mg/L)	YGWC-38	0.005497	0.004113	0.004	Yes	14	0.004743	0.001073	0	None	x^2	0.01	Param.
Selenium (mg/L)	YGWC-38	0.249	0.076	0.05	Yes	14	0.1755	0.07444	0	None	No	0.01	NP (normality)
Selenium (mg/L)	PZ-37	0.3047	0.2211	0.05	Yes	11	0.2629	0.0502	0	None	No	0.01	Param.

Federal Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/6/2021, 9:17 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	YAMW-1	0.025	0.00037	0.006	No	5	0.006874	0.0102	60	None	No	0.031	NP (NDs)
Antimony (mg/L)	YGWC-23S	0.003	0.00085	0.006	No	16	0.002541	0.0009916	81.25	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-38	0.003	0.00061	0.006	No	13	0.002312	0.001105	69.23	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-41	0.003	0.0014	0.006	No	13	0.002877	0.0004438	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-42	0.003	0.00053	0.006	No	13	0.00281	0.0006851	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-43	0.003	0.00031	0.006	No	13	0.002793	0.0007461	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-49	0.003	0.0011	0.006	No	13	0.002664	0.0008287	84.62	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-35	0.003	0.00039	0.006	No	5	0.002478	0.001167	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	PZ-37	0.003	0.0014	0.006	No	11	0.002614	0.0008911	81.82	None	No	0.006	NP (NDs)
Antimony (mg/L)	YGWC-24SA	0.003	0.0009	0.006	No	16	0.002869	0.000525	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-36A	0.0041	0.0014	0.006	No	16	0.004256	0.006491	50	None	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-23S	0.005	0.0012	0.01	No	18	0.004789	0.0008957	94.44	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-38	0.00212	0.0007623	0.01	No	14	0.001676	0.001497	14.29	None	ln(x)	0.01	Param.
Arsenic (mg/L)	YGWC-41	0.005	0.00062	0.01	No	14	0.00288	0.002208	50	None	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-42	0.003139	0.00143	0.01	No	14	0.002355	0.001306	14.29	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	YGWC-43	0.005	0.00099	0.01	No	14	0.004086	0.001819	78.57	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-49	0.005	0.00086	0.01	No	13	0.004035	0.001835	76.92	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-35	0.005	0.00069	0.01	No	6	0.003608	0.002158	66.67	None	No	0.0155	NP (NDs)
Arsenic (mg/L)	PZ-37	0.005	0.0008	0.01	No	11	0.002504	0.001995	36.36	None	No	0.006	NP (normality)
Arsenic (mg/L)	YGWC-24SA	0.005	0.0015	0.01	No	18	0.004806	0.000825	94.44	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-36A	0.005	0.00088	0.01	No	18	0.004041	0.001847	77.78	None	No	0.01	NP (NDs)
Barium (mg/L)	YAMW-1	0.04981	0.02919	2	No	6	0.0395	0.007503	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-23S	0.04499	0.02913	2	No	18	0.03706	0.01311	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-38	0.0239	0.01832	2	No	14	0.02111	0.003941	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-41	0.03029	0.0206	2	No	14	0.02544	0.00684	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-42	0.04675	0.03191	2	No	14	0.03933	0.01047	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-43	0.03572	0.01774	2	No	14	0.02673	0.01269	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-49	0.07999	0.06987	2	No	13	0.07493	0.006807	0	None	No	0.01	Param.
Barium (mg/L)	PZ-35	0.063	0.032	2	No	6	0.04	0.01166	0	None	No	0.0155	NP (normality)
Barium (mg/L)	PZ-37	0.05778	0.04078	2	No	11	0.04928	0.0102	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-24SA	0.0203	0.0189	2	No	18	0.02053	0.003411	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-36A	0.04411	0.03184	2	No	18	0.03797	0.01014	0	None	No	0.01	Param.
Beryllium (mg/L)	YAMW-1	0.0005	0.000058	0.004	No	6	0.0004047	0.0001776	66.67	None	No	0.0155	NP (NDs)
Beryllium (mg/L)	YAMW-5	0.0002156	0.00005244	0.004	No	4	0.000134	0.00003593	0	None	No	0.01	Param.
Beryllium (mg/L)	YGWC-23S	0.0005	0.000081	0.004	No	18	0.0002109	0.0001859	27.78	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-38	0.005497	0.004113	0.004	Yes	14	0.004743	0.001073	0	None	x^2	0.01	Param.
Beryllium (mg/L)	YGWC-41	0.0038	0.002	0.004	No	14	0.003	0.000862	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-42	0.0005	0.000067	0.004	No	14	0.0003503	0.0002087	64.29	None	No	0.01	NP (NDs)
Beryllium (mg/L)	YGWC-43	0.00053	0.0003	0.004	No	14	0.0004286	0.000133	42.86	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-49	0.00013	0.0001	0.004	No	13	0.0001408	0.0001088	7.692	None	No	0.01	NP (normality)
Beryllium (mg/L)	PZ-35	0.0004361	0.0002224	0.004	No	7	0.0003871	0.0001188	28.57	Kaplan-Meier	No	0.01	Param.
Beryllium (mg/L)	PZ-37	0.0003331	0.0002091	0.004	No	11	0.0003355	0.0001069	18.18	Kaplan-Meier	No	0.01	Param.
Beryllium (mg/L)	YGWC-24SA	0.00016	0.0001	0.004	No	18	0.0001811	0.000149	16.67	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-36A	0.0003195	0.0001904	0.004	No	18	0.0002549	0.0001067	5.56	None	No	0.01	Param.
Cadmium (mg/L)	YAMW-1	0.0005	0.00013	0.005	No	6	0.0003233	0.000194	50	None	No	0.0155	NP (normality)
Cadmium (mg/L)	YGWC-23S	0.0005	0.00007	0.005	No	18	0.0004761	0.0001014	94.44	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-38	0.002798	0.002139	0.005	No	14	0.00235	0.0006149	0	None	x^4	0.01	Param.
Cadmium (mg/L)	YGWC-41	0.0005	0.00017	0.005	No	14	0.0002886	0.0001446	28.57	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-42	0.0006	0.00017	0.005	No	14	0.0003764	0.0001667	42.86	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-49	0.0005	0.00007	0.005	No	13	0.0004669	0.0001193	92.31	None	No	0.01	NP (NDs)
Cadmium (mg/L)	PZ-35	0.0005	0.00016	0.005	No	6	0.0004433	0.0001388	83.33	None	No	0.0155	NP (NDs)
Cadmium (mg/L)	PZ-37	0.0006329	0.0002453	0.005	No	11	0.0004727	0.0002328	18.18	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	YGWC-36A	0.0005	0.00015	0.005	No	18	0.0002433	0.0001453	22.22	None	No	0.01	NP (normality)
Chromium (mg/L)	YAMW-1	0.001163	0.0003768	0.1	No	4	0.00077	0.0001732	0	None	No	0.01	Param.
Chromium (mg/L)	YGWC-23S	0.005	0.0008	0.1	No	14	0.003296	0.002061	57.14	None	No	0.01	NP (NDs)

Federal Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/6/2021, 9:17 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	YGWC-38	0.005	0.00065	0.1	No	14	0.004368	0.001607	85.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-41	0.005	0.00039	0.1	No	14	0.004671	0.001232	92.86	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-42	0.005	0.0013	0.1	No	14	0.004095	0.001807	78.57	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-43	0.005	0.00071	0.1	No	14	0.003755	0.002043	71.43	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-49	0.002	0.0014	0.1	No	12	0.001958	0.0009839	8.333	None	No	0.01	NP (normality)
Chromium (mg/L)	PZ-35	0.0012	0.0006	0.1	No	4	0.0007775	0.0002852	0	None	No	0.0625	NP (normality)
Chromium (mg/L)	PZ-37	0.005	0.0017	0.1	No	11	0.004055	0.001633	72.73	None	No	0.006	NP (NDs)
Chromium (mg/L)	YGWC-24SA	0.005	0.0011	0.1	No	14	0.004153	0.001684	78.57	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-36A	0.005	0.0013	0.1	No	14	0.004034	0.001699	71.43	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YAMW-1	0.02859	0.004268	0.035	No	7	0.01643	0.01106	28.57	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	YGWC-41	0.005	0.00069	0.035	No	14	0.003742	0.002072	71.43	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-42	0.0025	0.0017	0.035	No	14	0.0022	0.0008927	7.143	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-43	0.005	0.0016	0.035	No	14	0.00325	0.001688	42.86	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-49	0.005	0.0006	0.035	No	13	0.003654	0.002103	69.23	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-35	0.0059	0.005	0.035	No	6	0.00515	0.0003674	83.33	None	No	0.0155	NP (NDs)
Cobalt (mg/L)	PZ-37	0.0129	0.004336	0.035	No	11	0.008618	0.005139	0	None	No	0.01	Param.
Cobalt (mg/L)	YGWC-36A	0.005	0.0006	0.035	No	18	0.003761	0.002058	72.22	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	YAMW-1	0.8723	0.2073	6.92	No	5	0.5398	0.1984	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-23S	0.8108	0.3587	6.92	No	18	0.5848	0.3736	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-38	1.326	0.5981	6.92	No	14	0.962	0.5138	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-41	1.374	0.6299	6.92	No	14	1.032	0.5676	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-42	2.942	1.277	6.92	No	14	2.11	1.175	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-43	4.059	1.333	6.92	No	14	2.696	1.924	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-49	1.175	0.4779	6.92	No	13	0.8266	0.469	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-35	1.075	-0.04565	6.92	No	5	0.5146	0.3343	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-37	2.039	1.437	6.92	No	11	1.749	0.4126	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-24SA	0.7865	0.4799	6.92	No	18	0.6332	0.2534	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-36A	1.095	0.5456	6.92	No	18	0.8205	0.4544	0	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-23S	0.12	0.049	4	No	19	0.09468	0.02023	84.21	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-38	0.24	0.034	4	No	15	0.1616	0.1178	60	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-41	0.11	0.1	4	No	15	0.1007	0.002582	86.67	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-42	0.1	0.06	4	No	15	0.08607	0.02601	73.33	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-43	0.1159	0.05777	4	No	15	0.1069	0.05423	26.67	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-49	0.14	0.06	4	No	14	0.09929	0.02702	57.14	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-37	0.31	0.1	4	No	11	0.1773	0.1198	63.64	None	No	0.006	NP (NDs)
Fluoride (mg/L)	YGWC-24SA	0.1	0.098	4	No	19	0.09637	0.01535	89.47	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-36A	0.1	0.09	4	No	19	0.09242	0.03298	63.16	None	No	0.01	NP (NDs)
Lead (mg/L)	YAMW-1	0.001	0.00019	0.015	No	5	0.000838	0.0003622	80	None	No	0.031	NP (NDs)
Lead (mg/L)	YGWC-23S	0.001	0.00021	0.015	No	16	0.0008016	0.0003629	75	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-38	0.001	0.0001	0.015	No	14	0.0008071	0.0003832	78.57	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-41	0.0011	0.00012	0.015	No	14	0.0007541	0.0004218	64.29	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-42	0.001	0.00009	0.015	No	14	0.0007422	0.0004243	71.43	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-43	0.001	0.00008	0.015	No	14	0.0008682	0.000335	85.71	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-49	0.001	0.000059	0.015	No	13	0.0009276	0.000261	92.31	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-35	0.001	0.000087	0.015	No	5	0.0006474	0.0004833	60	None	No	0.031	NP (NDs)
Lead (mg/L)	PZ-37	0.001	0.000088	0.015	No	11	0.0006066	0.0004535	54.55	None	No	0.006	NP (NDs)
Lead (mg/L)	YGWC-24SA	0.001	0.00036	0.015	No	16	0.0009008	0.0002768	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-36A	0.000658	0.0002358	0.015	No	16	0.0004956	0.0004239	12.5	None	x^(1/3)	0.01	Param.
Lithium (mg/L)	YAMW-1	0.0235	0.0006154	0.04	No	6	0.01255	0.008417	16.67	Kaplan-Meier	No	0.01	Param.
Lithium (mg/L)	YGWC-23S	0.0026	0.0018	0.04	No	18	0.002994	0.003057	5.566	None	No	0.01	NP (normality)
Lithium (mg/L)	YGWC-38	0.008994	0.007591	0.04	No	14	0.008293	0.0009903	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-41	0.0044	0.0025	0.04	No	14	0.004314	0.003188	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	YGWC-42	0.0478	0.02983	0.04	No	14	0.03881	0.01268	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-43	0.01912	0.01164	0.04	No	14	0.01538	0.005279	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-49	0.0039	0.0035	0.04	No	13	0.003708	0.0002465	0	None	No	0.01	NP (normality)

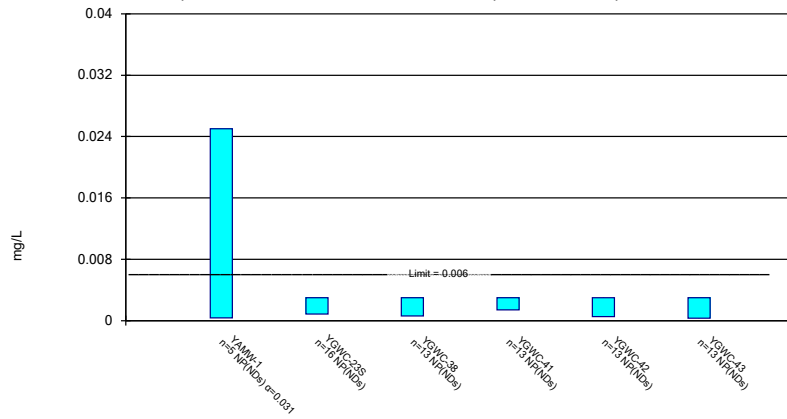
Federal Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/6/2021, 9:17 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	PZ-35	0.015	0.001	0.04	No	6	0.005133	0.006226	16.67	None	No	0.0155	NP (normality)
Lithium (mg/L)	PZ-37	0.03042	0.02345	0.04	No	11	0.02679	0.004677	9.091	None	x^2	0.01	Param.
Lithium (mg/L)	YGWC-36A	0.006884	0.003471	0.04	No	18	0.005478	0.002992	5.556	None	x^(1/3)	0.01	Param.
Mercury (mg/L)	YGWC-23S	0.0002	0.00015	0.002	No	13	0.0001883	0.00003045	84.62	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-38	0.0002	0.00008	0.002	No	11	0.0001743	0.00005804	81.82	None	No	0.006	NP (NDs)
Mercury (mg/L)	YGWC-41	0.0002	0.0002	0.002	No	11	0.0001873	0.00004221	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	YGWC-42	0.0002	0.0002	0.002	No	11	0.0001862	0.00004583	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	YGWC-43	0.0002	0.0002	0.002	No	11	0.0001865	0.00004462	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	YGWC-49	0.0002	0.00014	0.002	No	10	0.0001801	0.0000459	80	None	No	0.011	NP (NDs)
Mercury (mg/L)	PZ-37	0.0002	0.0002	0.002	No	11	0.0001873	0.00004221	90.91	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	YAMW-1	0.004895	0.001572	0.1	No	4	0.004925	0.003462	25	Kaplan-Meier	No	0.01	Param.
Molybdenum (mg/L)	YGWC-42	0.01	0.00094	0.1	No	14	0.00525	0.004314	42.86	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-43	0.01	0.0011	0.1	No	14	0.005679	0.004493	50	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-49	0.01	0.0007	0.1	No	12	0.009225	0.002685	91.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-35	0.01	0.0019	0.1	No	4	0.007975	0.00405	75	None	No	0.0625	NP (NDs)
Molybdenum (mg/L)	PZ-37	0.01	0.0016	0.1	No	11	0.004818	0.004118	36.36	None	No	0.006	NP (normality)
Molybdenum (mg/L)	YGWC-36A	0.01	0.0025	0.1	No	14	0.007071	0.003747	57.14	None	No	0.01	NP (NDs)
Selenium (mg/L)	YAMW-1	0.0025	0.0019	0.05	No	6	0.0024	0.0002449	83.33	None	No	0.0155	NP (NDs)
Selenium (mg/L)	YAMW-4	0.016	0.0018	0.05	No	4	0.0057	0.006875	50	None	No	0.0625	NP (normality)
Selenium (mg/L)	YAMW-5	0.08521	0.01079	0.05	No	4	0.048	0.01639	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-23S	0.03964	0.02677	0.05	No	18	0.03321	0.01064	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-38	0.249	0.076	0.05	Yes	14	0.1755	0.07444	0	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-41	0.06577	0.04363	0.05	No	14	0.0547	0.01563	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-42	0.05735	0.04038	0.05	No	14	0.04886	0.01198	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-49	0.00899	0.006583	0.05	No	13	0.007646	0.00198	7.692	None	x^2	0.01	Param.
Selenium (mg/L)	PZ-37	0.3047	0.2211	0.05	Yes	11	0.2629	0.0502	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-36A	0.002744	0.001829	0.05	No	18	0.002433	0.0005931	33.33	Kaplan-Meier	No	0.01	Param.

Non-Parametric Confidence Interval

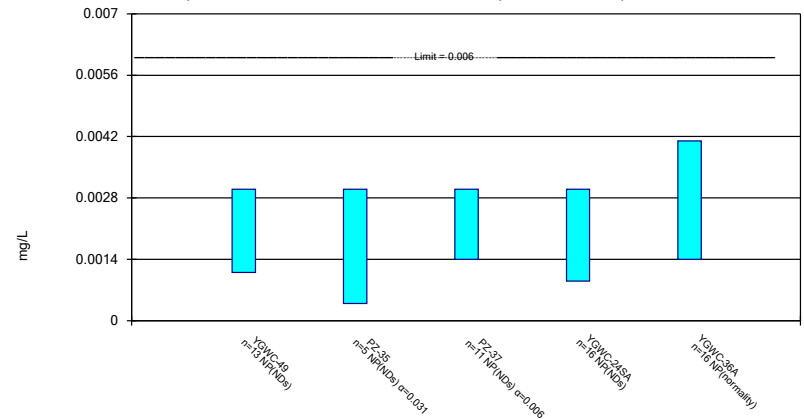
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Antimony Analysis Run 5/6/2021 9:15 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

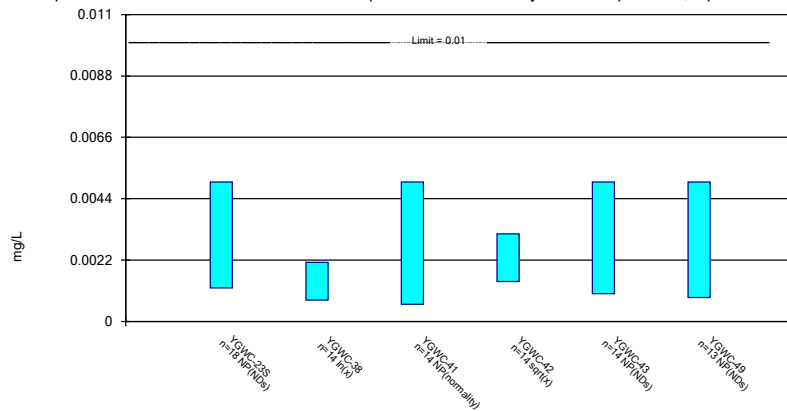
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Antimony Analysis Run 5/6/2021 9:15 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

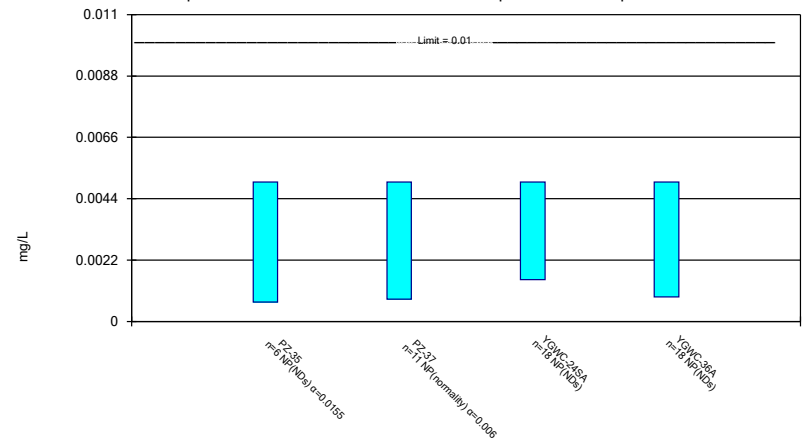
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 5/6/2021 9:15 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

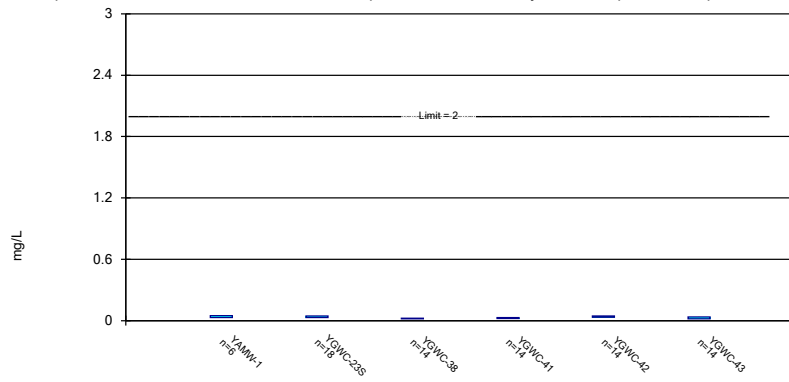
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Arsenic Analysis Run 5/6/2021 9:15 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric Confidence Interval

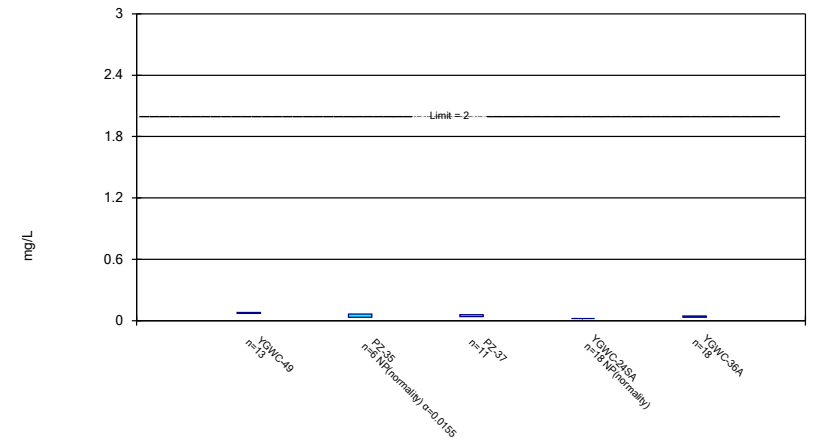
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 5/6/2021 9:15 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

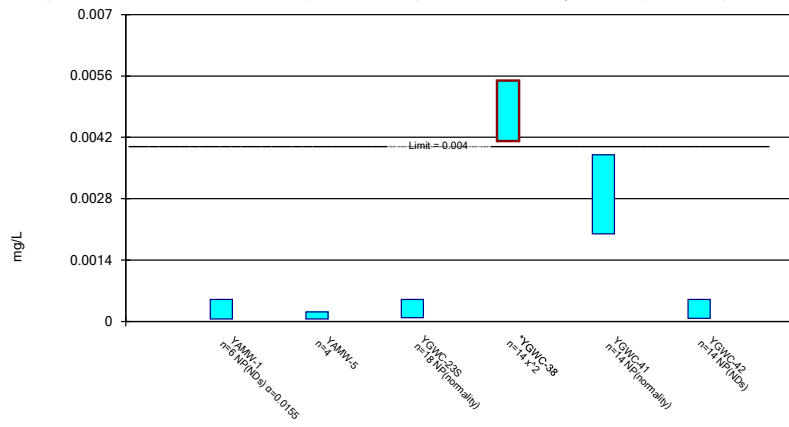
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 5/6/2021 9:15 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

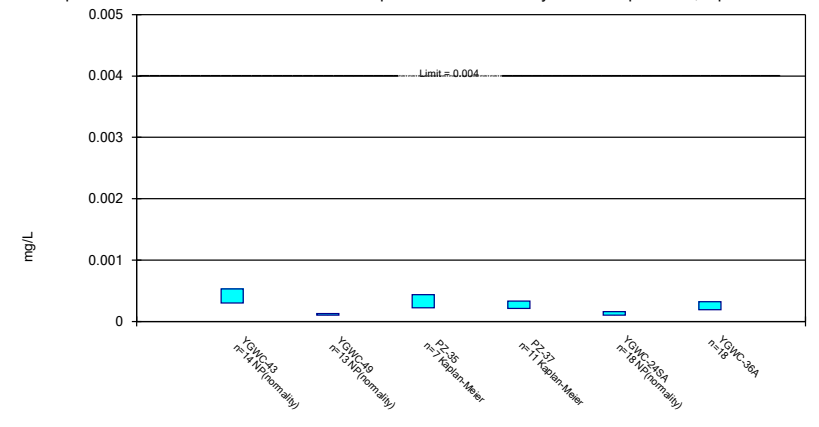
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 5/6/2021 9:15 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

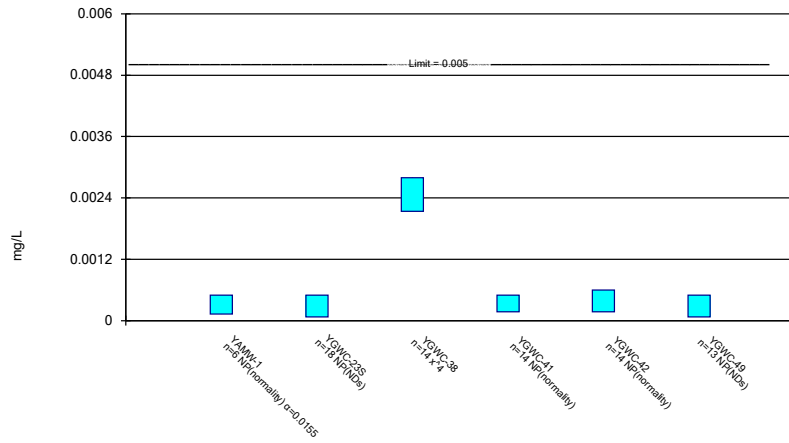
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 5/6/2021 9:15 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

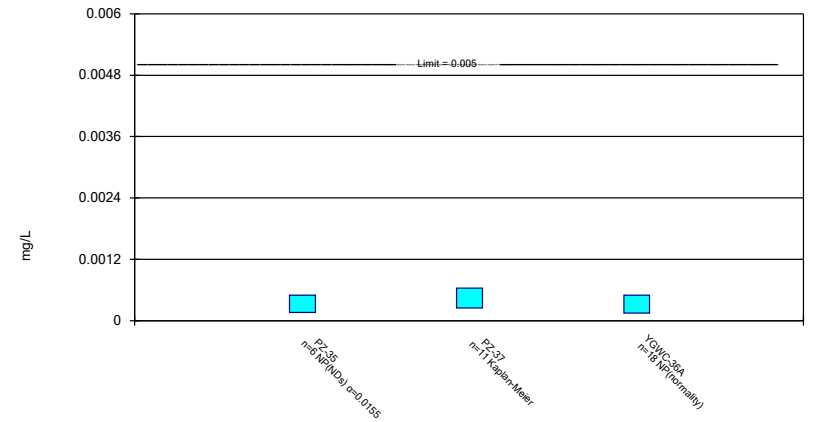
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 5/6/2021 9:15 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

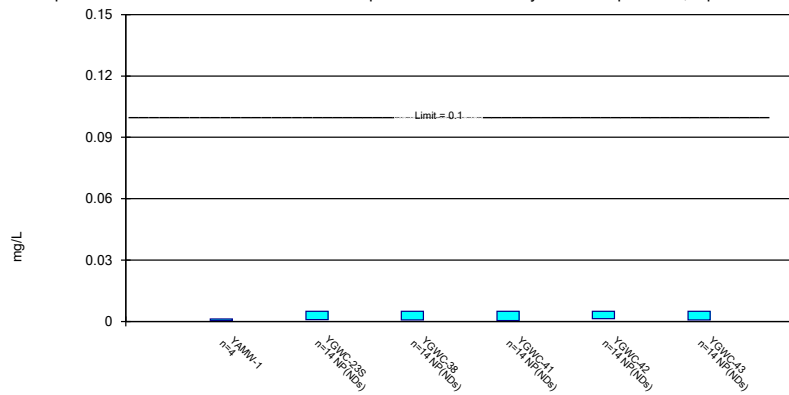
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 5/6/2021 9:15 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

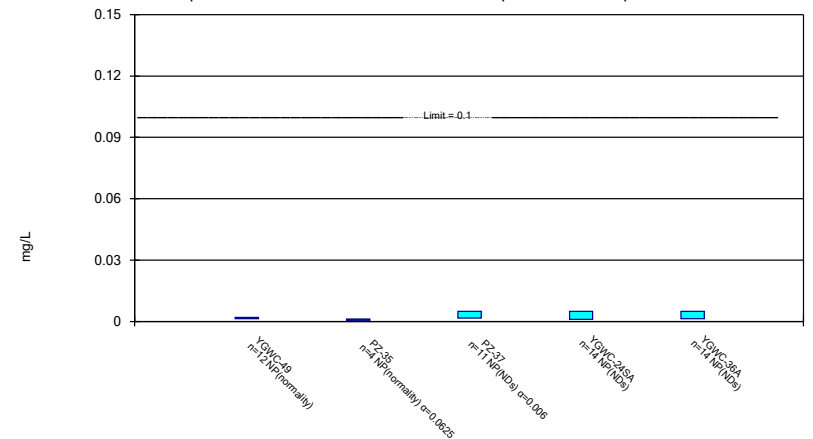
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 5/6/2021 9:15 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

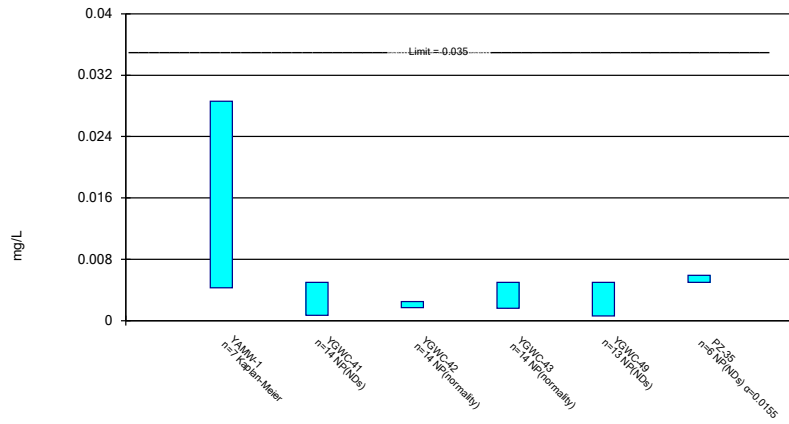
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Chromium Analysis Run 5/6/2021 9:15 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

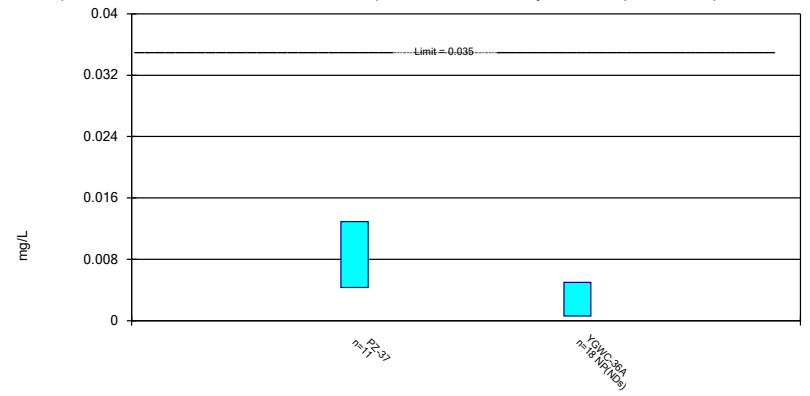
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/6/2021 9:15 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

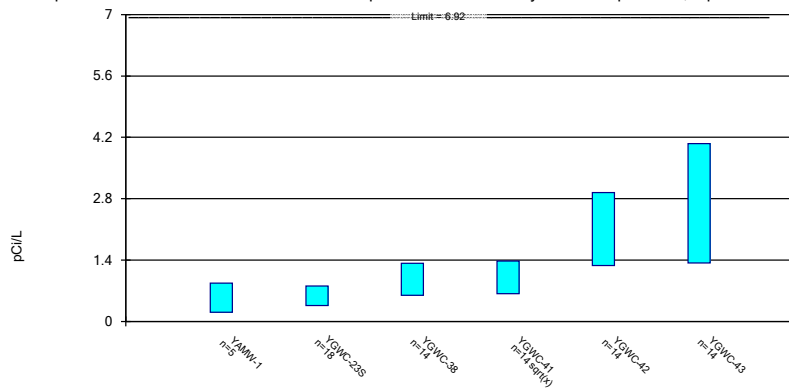
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/6/2021 9:15 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric Confidence Interval

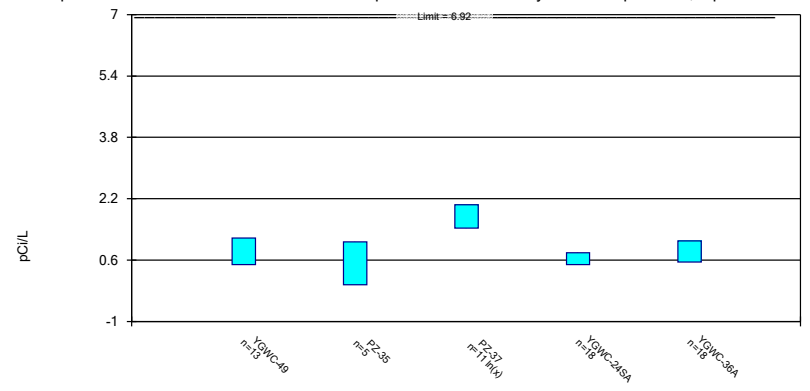
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/6/2021 9:15 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric Confidence Interval

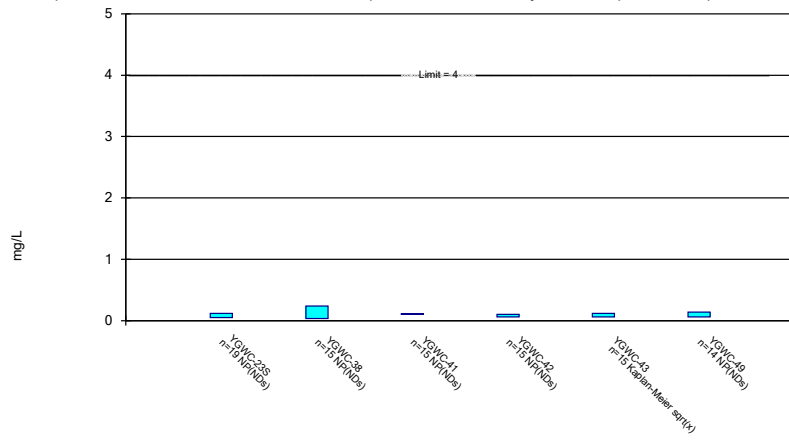
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/6/2021 9:15 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

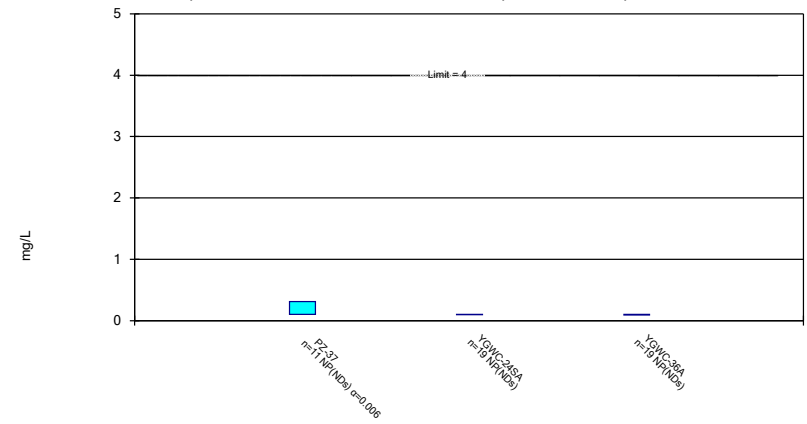
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 5/6/2021 9:15 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

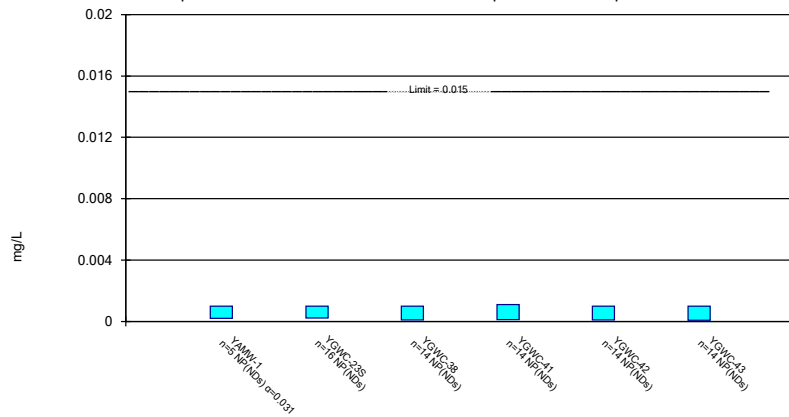
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Fluoride Analysis Run 5/6/2021 9:15 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

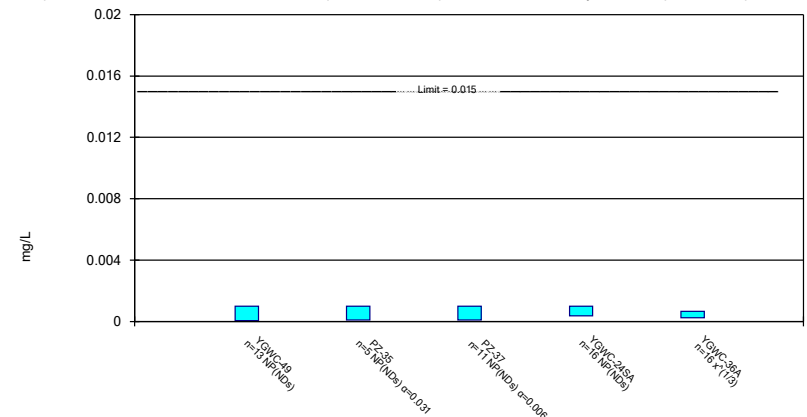
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Lead Analysis Run 5/6/2021 9:15 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

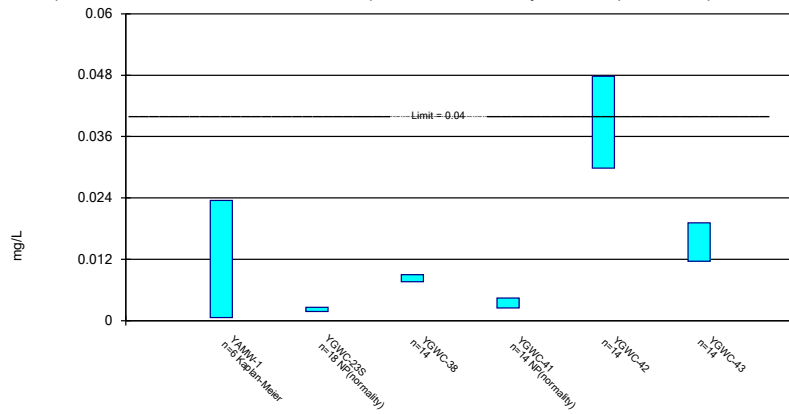
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 5/6/2021 9:15 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

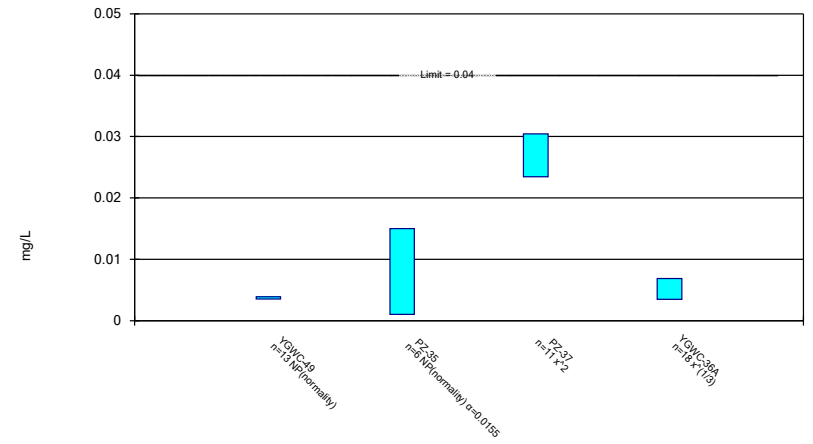
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/6/2021 9:16 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

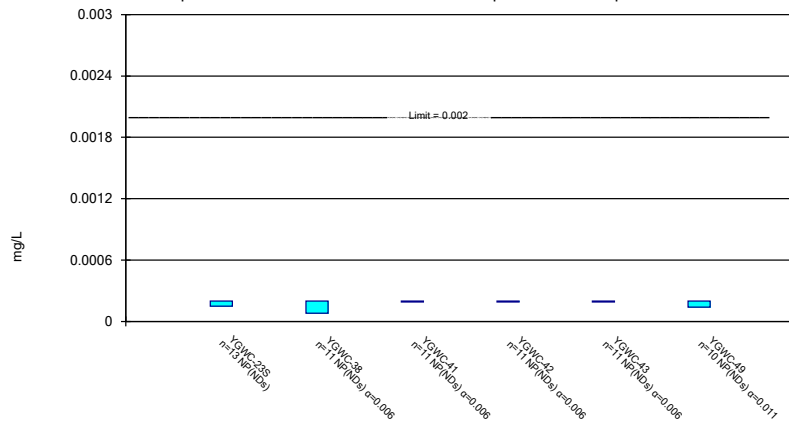
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/6/2021 9:16 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

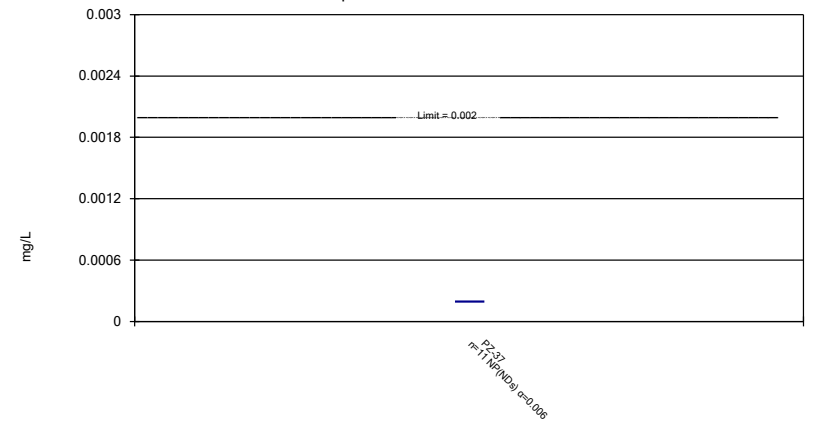
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Mercury Analysis Run 5/6/2021 9:16 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

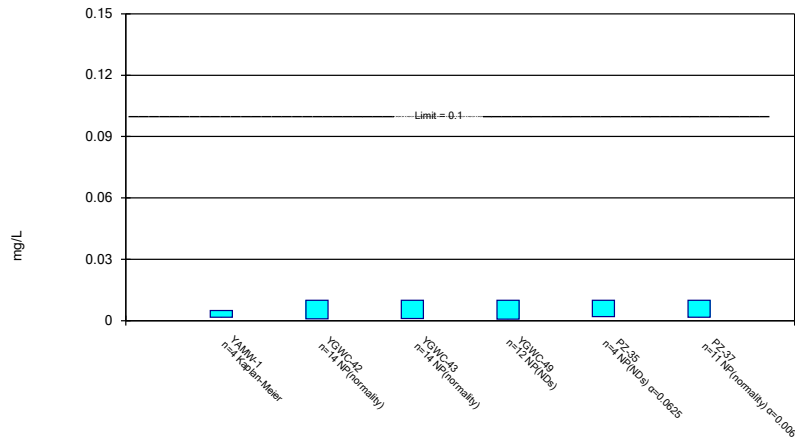
Compliance Limit is not exceeded.



Constituent: Mercury Analysis Run 5/6/2021 9:16 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

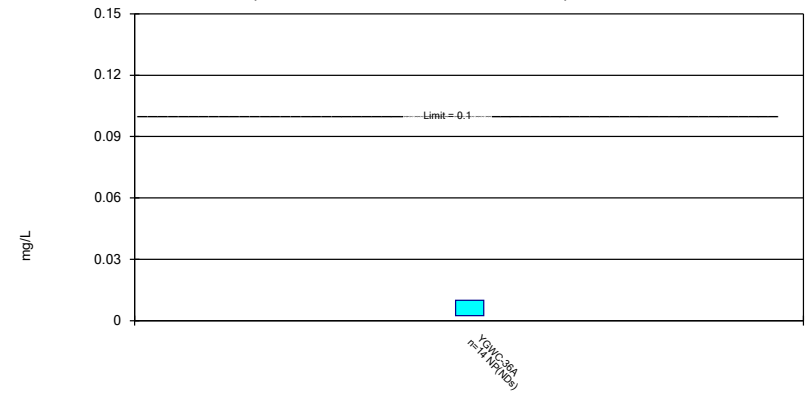
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 5/6/2021 9:16 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

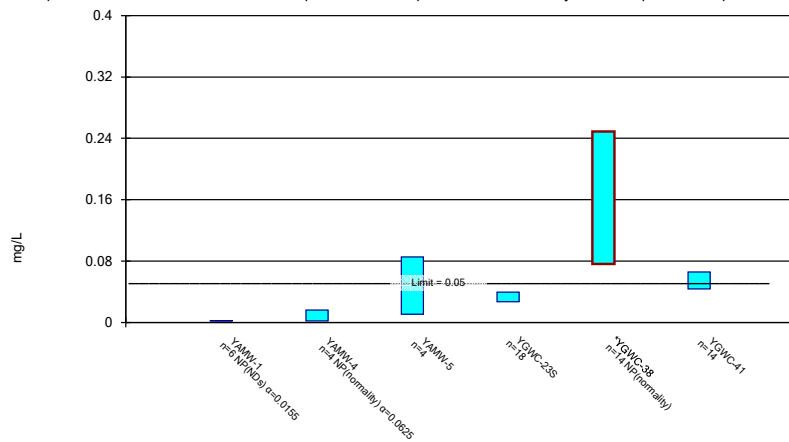
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Molybdenum Analysis Run 5/6/2021 9:16 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

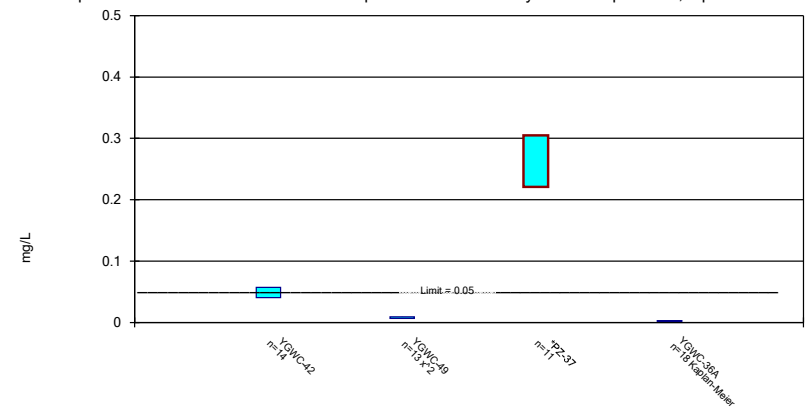
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 5/6/2021 9:16 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 5/6/2021 9:16 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

FIGURE I.

State Confidence Intervals - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/6/2021, 9:21 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Beryllium (mg/L)	YGWC-38	0.005497	0.004113	0.004	Yes	14	0.004743	0.001073	0	None	x^2	0.01	Param.
Selenium (mg/L)	YGWC-38	0.249	0.076	0.05	Yes	14	0.1755	0.07444	0	None	No	0.01	NP (normality)
Selenium (mg/L)	PZ-37	0.3047	0.2211	0.05	Yes	11	0.2629	0.0502	0	None	No	0.01	Param.

State Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/6/2021, 9:21 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	YAMW-1	0.025	0.00037	0.006	No	5	0.006874	0.0102	60	None	No	0.031	NP (NDs)
Antimony (mg/L)	YGWC-23S	0.003	0.00085	0.006	No	16	0.002541	0.0009916	81.25	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-38	0.003	0.00061	0.006	No	13	0.002312	0.001105	69.23	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-41	0.003	0.0014	0.006	No	13	0.002877	0.0004438	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-42	0.003	0.00053	0.006	No	13	0.00281	0.0006851	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-43	0.003	0.00031	0.006	No	13	0.002793	0.0007461	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-49	0.003	0.0011	0.006	No	13	0.002664	0.0008287	84.62	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-35	0.003	0.00039	0.006	No	5	0.002478	0.001167	80	None	No	0.031	NP (NDs)
Antimony (mg/L)	PZ-37	0.003	0.0014	0.006	No	11	0.002614	0.0008911	81.82	None	No	0.006	NP (NDs)
Antimony (mg/L)	YGWC-24SA	0.003	0.0009	0.006	No	16	0.002869	0.000525	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-36A	0.0041	0.0014	0.006	No	16	0.004256	0.006491	50	None	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-23S	0.005	0.0012	0.01	No	18	0.004789	0.0008957	94.44	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-38	0.00212	0.0007623	0.01	No	14	0.001676	0.001497	14.29	None	ln(x)	0.01	Param.
Arsenic (mg/L)	YGWC-41	0.005	0.00062	0.01	No	14	0.00288	0.002208	50	None	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-42	0.003139	0.00143	0.01	No	14	0.002355	0.001306	14.29	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	YGWC-43	0.005	0.00099	0.01	No	14	0.004086	0.001819	78.57	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-49	0.005	0.00086	0.01	No	13	0.004035	0.001835	76.92	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-35	0.005	0.00069	0.01	No	6	0.003608	0.002158	66.67	None	No	0.0155	NP (NDs)
Arsenic (mg/L)	PZ-37	0.005	0.0008	0.01	No	11	0.002504	0.001995	36.36	None	No	0.006	NP (normality)
Arsenic (mg/L)	YGWC-24SA	0.005	0.0015	0.01	No	18	0.004806	0.000825	94.44	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-36A	0.005	0.00088	0.01	No	18	0.004041	0.001847	77.78	None	No	0.01	NP (NDs)
Barium (mg/L)	YAMW-1	0.04981	0.02919	2	No	6	0.0395	0.007503	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-23S	0.04499	0.02913	2	No	18	0.03706	0.01311	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-38	0.0239	0.01832	2	No	14	0.02111	0.003941	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-41	0.03029	0.0206	2	No	14	0.02544	0.00684	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-42	0.04675	0.03191	2	No	14	0.03933	0.01047	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-43	0.03572	0.01774	2	No	14	0.02673	0.01269	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-49	0.07999	0.06987	2	No	13	0.07493	0.006807	0	None	No	0.01	Param.
Barium (mg/L)	PZ-35	0.063	0.032	2	No	6	0.04	0.01166	0	None	No	0.0155	NP (normality)
Barium (mg/L)	PZ-37	0.05778	0.04078	2	No	11	0.04928	0.0102	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-24SA	0.0203	0.0189	2	No	18	0.02053	0.003411	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-36A	0.04411	0.03184	2	No	18	0.03797	0.01014	0	None	No	0.01	Param.
Beryllium (mg/L)	YAMW-1	0.0005	0.000058	0.004	No	6	0.0004047	0.0001776	66.67	None	No	0.0155	NP (NDs)
Beryllium (mg/L)	YAMW-5	0.0002156	0.00005244	0.004	No	4	0.000134	0.00003593	0	None	No	0.01	Param.
Beryllium (mg/L)	YGWC-23S	0.0005	0.000081	0.004	No	18	0.0002109	0.0001859	27.78	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-38	0.005497	0.004113	0.004	Yes	14	0.004743	0.001073	0	None	x^2	0.01	Param.
Beryllium (mg/L)	YGWC-41	0.0038	0.002	0.004	No	14	0.003	0.000862	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-42	0.0005	0.000067	0.004	No	14	0.0003503	0.0002087	64.29	None	No	0.01	NP (NDs)
Beryllium (mg/L)	YGWC-43	0.00053	0.0003	0.004	No	14	0.0004286	0.000133	42.86	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-49	0.00013	0.0001	0.004	No	13	0.0001408	0.0001088	7.692	None	No	0.01	NP (normality)
Beryllium (mg/L)	PZ-35	0.0004361	0.0002224	0.004	No	7	0.0003871	0.0001188	28.57	Kaplan-Meier	No	0.01	Param.
Beryllium (mg/L)	PZ-37	0.0003331	0.0002091	0.004	No	11	0.0003355	0.0001069	18.18	Kaplan-Meier	No	0.01	Param.
Beryllium (mg/L)	YGWC-24SA	0.00016	0.0001	0.004	No	18	0.0001811	0.000149	16.67	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-36A	0.0003195	0.0001904	0.004	No	18	0.0002549	0.0001067	5.56	None	No	0.01	Param.
Cadmium (mg/L)	YAMW-1	0.0005	0.00013	0.005	No	6	0.0003233	0.000194	50	None	No	0.0155	NP (normality)
Cadmium (mg/L)	YGWC-23S	0.0005	0.00007	0.005	No	18	0.0004761	0.0001014	94.44	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-38	0.002798	0.002139	0.005	No	14	0.00235	0.0006149	0	None	x^4	0.01	Param.
Cadmium (mg/L)	YGWC-41	0.0005	0.00017	0.005	No	14	0.0002886	0.0001446	28.57	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-42	0.0006	0.00017	0.005	No	14	0.0003764	0.0001667	42.86	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-49	0.0005	0.00007	0.005	No	13	0.0004669	0.0001193	92.31	None	No	0.01	NP (NDs)
Cadmium (mg/L)	PZ-35	0.0005	0.00016	0.005	No	6	0.0004433	0.0001388	83.33	None	No	0.0155	NP (NDs)
Cadmium (mg/L)	PZ-37	0.0006329	0.0002453	0.005	No	11	0.0004727	0.0002328	18.18	Kaplan-Meier	No	0.01	Param.
Cadmium (mg/L)	YGWC-36A	0.0005	0.00015	0.005	No	18	0.0002433	0.0001453	22.22	None	No	0.01	NP (normality)
Chromium (mg/L)	YAMW-1	0.001163	0.0003768	0.1	No	4	0.00077	0.0001732	0	None	No	0.01	Param.
Chromium (mg/L)	YGWC-23S	0.005	0.0008	0.1	No	14	0.003296	0.002061	57.14	None	No	0.01	NP (NDs)

State Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/6/2021, 9:21 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chromium (mg/L)	YGWC-38	0.005	0.00065	0.1	No	14	0.004368	0.001607	85.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-41	0.005	0.00039	0.1	No	14	0.004671	0.001232	92.86	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-42	0.005	0.0013	0.1	No	14	0.004095	0.001807	78.57	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-43	0.005	0.00071	0.1	No	14	0.003755	0.002043	71.43	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-49	0.002	0.0014	0.1	No	12	0.001958	0.0009839	8.333	None	No	0.01	NP (normality)
Chromium (mg/L)	PZ-35	0.0012	0.0006	0.1	No	4	0.0007775	0.0002852	0	None	No	0.0625	NP (normality)
Chromium (mg/L)	PZ-37	0.005	0.0017	0.1	No	11	0.004055	0.001633	72.73	None	No	0.006	NP (NDs)
Chromium (mg/L)	YGWC-24SA	0.005	0.0011	0.1	No	14	0.004153	0.001684	78.57	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-36A	0.005	0.0013	0.1	No	14	0.004034	0.001699	71.43	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YAMW-1	0.02859	0.004268	0.035	No	7	0.01643	0.01106	28.57	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	YGWC-41	0.005	0.00069	0.035	No	14	0.003742	0.002072	71.43	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-42	0.0025	0.0017	0.035	No	14	0.0022	0.0008927	7.143	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-43	0.005	0.0016	0.035	No	14	0.00325	0.001688	42.86	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-49	0.005	0.0006	0.035	No	13	0.003654	0.002103	69.23	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-35	0.0059	0.005	0.035	No	6	0.00515	0.0003674	83.33	None	No	0.0155	NP (NDs)
Cobalt (mg/L)	PZ-37	0.0129	0.004336	0.035	No	11	0.008618	0.005139	0	None	No	0.01	Param.
Cobalt (mg/L)	YGWC-36A	0.005	0.0006	0.035	No	18	0.003761	0.002058	72.22	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	YAMW-1	0.8723	0.2073	6.92	No	5	0.5398	0.1984	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-23S	0.8108	0.3587	6.92	No	18	0.5848	0.3736	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-38	1.326	0.5981	6.92	No	14	0.962	0.5138	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-41	1.374	0.6299	6.92	No	14	1.032	0.5676	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-42	2.942	1.277	6.92	No	14	2.11	1.175	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-43	4.059	1.333	6.92	No	14	2.696	1.924	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-49	1.175	0.4779	6.92	No	13	0.8266	0.469	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-35	1.075	-0.04565	6.92	No	5	0.5146	0.3343	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-37	2.039	1.437	6.92	No	11	1.749	0.4126	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-24SA	0.7865	0.4799	6.92	No	18	0.6332	0.2534	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-36A	1.095	0.5456	6.92	No	18	0.8205	0.4544	0	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-23S	0.12	0.049	4	No	19	0.09468	0.02023	84.21	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-38	0.24	0.034	4	No	15	0.1616	0.1178	60	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-41	0.11	0.1	4	No	15	0.1007	0.002582	86.67	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-42	0.1	0.06	4	No	15	0.08607	0.02601	73.33	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-43	0.1159	0.05777	4	No	15	0.1069	0.05423	26.67	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-49	0.14	0.06	4	No	14	0.09929	0.02702	57.14	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-37	0.31	0.1	4	No	11	0.1773	0.1198	63.64	None	No	0.006	NP (NDs)
Fluoride (mg/L)	YGWC-24SA	0.1	0.098	4	No	19	0.09637	0.01535	89.47	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-36A	0.1	0.09	4	No	19	0.09242	0.03298	63.16	None	No	0.01	NP (NDs)
Lead (mg/L)	YAMW-1	0.001	0.00019	0.0013	No	5	0.000838	0.0003622	80	None	No	0.031	NP (NDs)
Lead (mg/L)	YGWC-23S	0.001	0.00021	0.0013	No	16	0.0008016	0.0003629	75	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-38	0.001	0.0001	0.0013	No	14	0.0008071	0.0003832	78.57	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-41	0.0011	0.00012	0.0013	No	14	0.0007541	0.0004218	64.29	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-42	0.001	0.00009	0.0013	No	14	0.0007422	0.0004243	71.43	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-43	0.001	0.00008	0.0013	No	14	0.0008682	0.000335	85.71	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-49	0.001	0.000059	0.0013	No	13	0.0009276	0.000261	92.31	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-35	0.001	0.000087	0.0013	No	5	0.0006474	0.0004833	60	None	No	0.031	NP (NDs)
Lead (mg/L)	PZ-37	0.001	0.000088	0.0013	No	11	0.0006066	0.0004535	54.55	None	No	0.006	NP (NDs)
Lead (mg/L)	YGWC-24SA	0.001	0.00036	0.0013	No	16	0.0009008	0.0002768	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-36A	0.000658	0.0002358	0.0013	No	16	0.0004956	0.0004239	12.5	None	x^(1/3)	0.01	Param.
Lithium (mg/L)	YAMW-1	0.0235	0.0006154	0.03	No	6	0.01255	0.008417	16.67	Kaplan-Meier	No	0.01	Param.
Lithium (mg/L)	YGWC-23S	0.0026	0.0018	0.03	No	18	0.002994	0.003057	5.566	None	No	0.01	NP (normality)
Lithium (mg/L)	YGWC-38	0.008994	0.007591	0.03	No	14	0.008293	0.0009903	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-41	0.0044	0.0025	0.03	No	14	0.004314	0.003188	7.143	None	No	0.01	NP (normality)
Lithium (mg/L)	YGWC-42	0.0478	0.02983	0.03	No	14	0.03881	0.01268	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-43	0.01912	0.01164	0.03	No	14	0.01538	0.005279	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-49	0.0039	0.0035	0.03	No	13	0.003708	0.0002465	0	None	No	0.01	NP (normality)

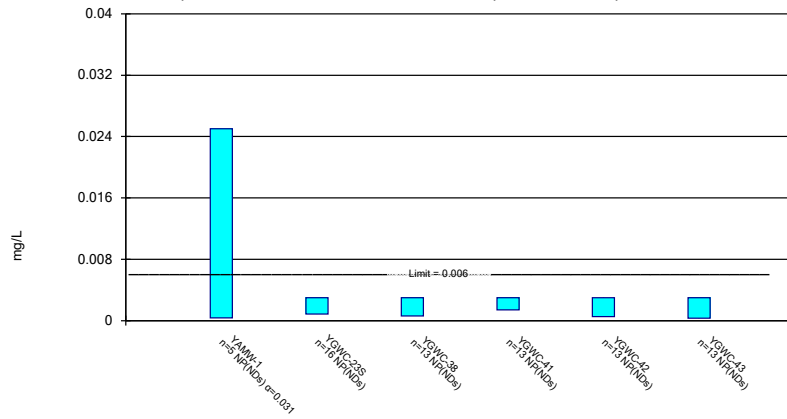
State Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 5/6/2021, 9:21 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	PZ-35	0.015	0.001	0.03	No	6	0.005133	0.006226	16.67	None	No	0.0155	NP (normality)
Lithium (mg/L)	PZ-37	0.03042	0.02345	0.03	No	11	0.02679	0.004677	9.091	None	x^2	0.01	Param.
Lithium (mg/L)	YGWC-36A	0.006884	0.003471	0.03	No	18	0.005478	0.002992	5.556	None	x^(1/3)	0.01	Param.
Mercury (mg/L)	YGWC-23S	0.0002	0.00015	0.002	No	13	0.0001883	0.00003045	84.62	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-38	0.0002	0.00008	0.002	No	11	0.0001743	0.00005804	81.82	None	No	0.006	NP (NDs)
Mercury (mg/L)	YGWC-41	0.0002	0.0002	0.002	No	11	0.0001873	0.00004221	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	YGWC-42	0.0002	0.0002	0.002	No	11	0.0001862	0.00004583	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	YGWC-43	0.0002	0.0002	0.002	No	11	0.0001865	0.00004462	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	YGWC-49	0.0002	0.00014	0.002	No	10	0.0001801	0.0000459	80	None	No	0.011	NP (NDs)
Mercury (mg/L)	PZ-37	0.0002	0.0002	0.002	No	11	0.0001873	0.00004221	90.91	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	YAMW-1	0.004895	0.001572	0.014	No	4	0.004925	0.003462	25	Kaplan-Meier	No	0.01	Param.
Molybdenum (mg/L)	YGWC-42	0.01	0.00094	0.014	No	14	0.00525	0.004314	42.86	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-43	0.01	0.0011	0.014	No	14	0.005679	0.004493	50	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-49	0.01	0.0007	0.014	No	12	0.009225	0.002685	91.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-35	0.01	0.0019	0.014	No	4	0.007975	0.00405	75	None	No	0.0625	NP (NDs)
Molybdenum (mg/L)	PZ-37	0.01	0.0016	0.014	No	11	0.004818	0.004118	36.36	None	No	0.006	NP (normality)
Molybdenum (mg/L)	YGWC-36A	0.01	0.0025	0.014	No	14	0.007071	0.003747	57.14	None	No	0.01	NP (NDs)
Selenium (mg/L)	YAMW-1	0.0025	0.0019	0.05	No	6	0.0024	0.0002449	83.33	None	No	0.0155	NP (NDs)
Selenium (mg/L)	YAMW-4	0.016	0.0018	0.05	No	4	0.0057	0.006875	50	None	No	0.0625	NP (normality)
Selenium (mg/L)	YAMW-5	0.08521	0.01079	0.05	No	4	0.048	0.01639	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-23S	0.03964	0.02677	0.05	No	18	0.03321	0.01064	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-38	0.249	0.076	0.05	Yes	14	0.1755	0.07444	0	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-41	0.06577	0.04363	0.05	No	14	0.0547	0.01563	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-42	0.05735	0.04038	0.05	No	14	0.04886	0.01198	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-49	0.00899	0.006583	0.05	No	13	0.007646	0.00198	7.692	None	x^2	0.01	Param.
Selenium (mg/L)	PZ-37	0.3047	0.2211	0.05	Yes	11	0.2629	0.0502	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-36A	0.002744	0.001829	0.05	No	18	0.002433	0.0005931	33.33	Kaplan-Meier	No	0.01	Param.

Non-Parametric Confidence Interval

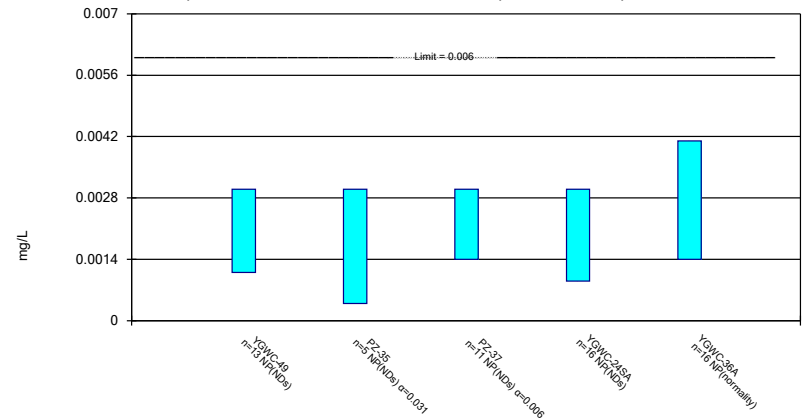
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Antimony Analysis Run 5/6/2021 9:19 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

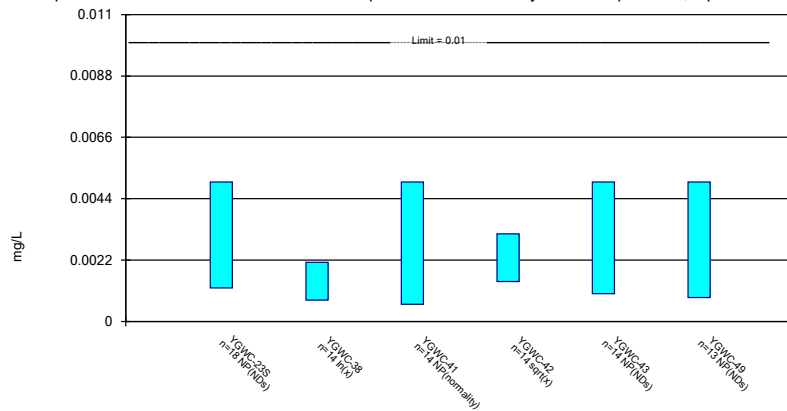
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Antimony Analysis Run 5/6/2021 9:19 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

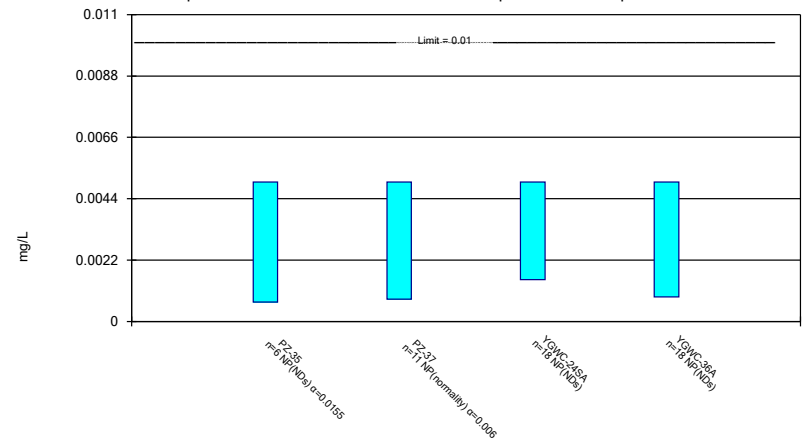
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 5/6/2021 9:19 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

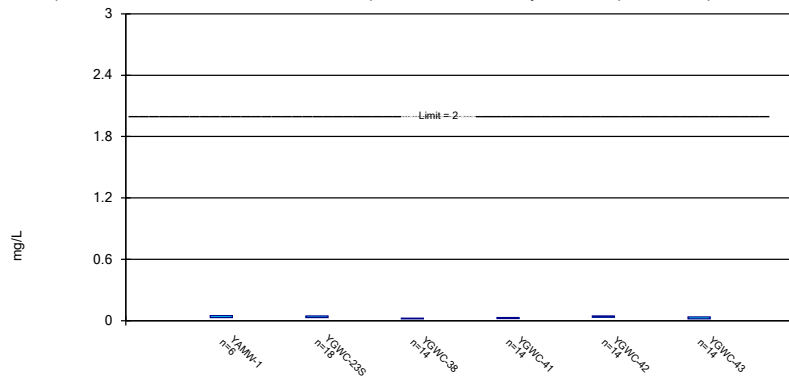
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Arsenic Analysis Run 5/6/2021 9:19 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric Confidence Interval

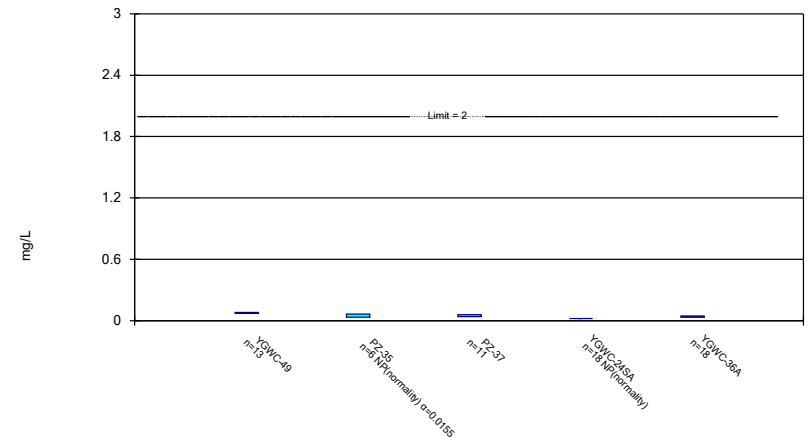
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 5/6/2021 9:19 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

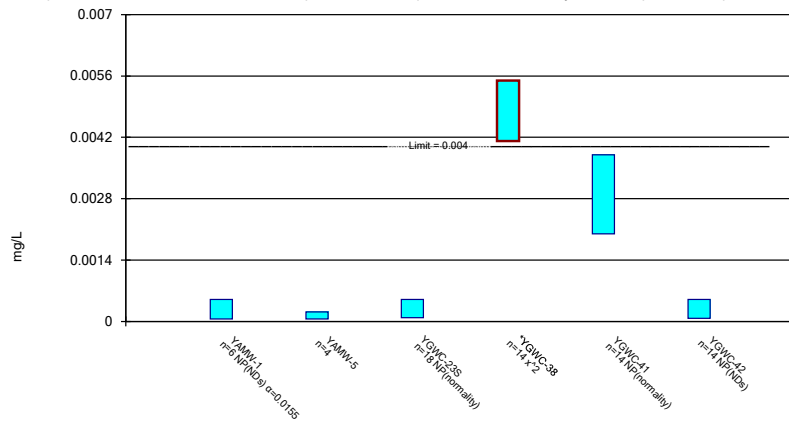
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 5/6/2021 9:19 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

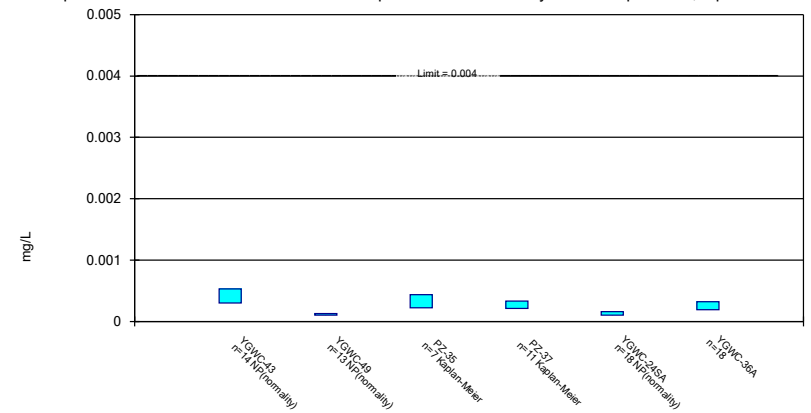
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 5/6/2021 9:19 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

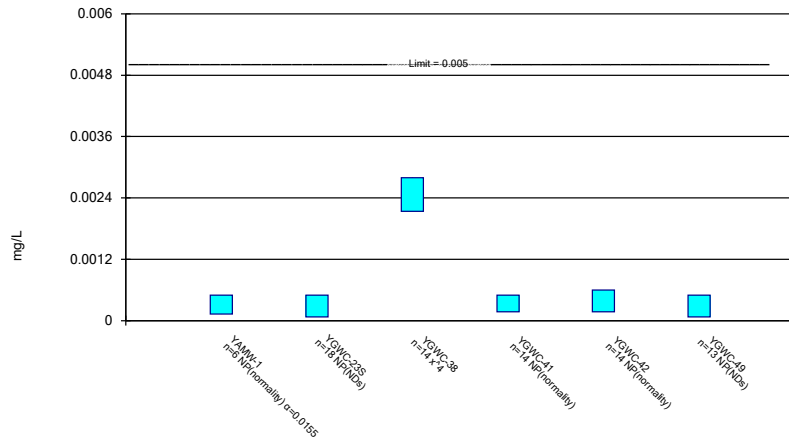
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 5/6/2021 9:19 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

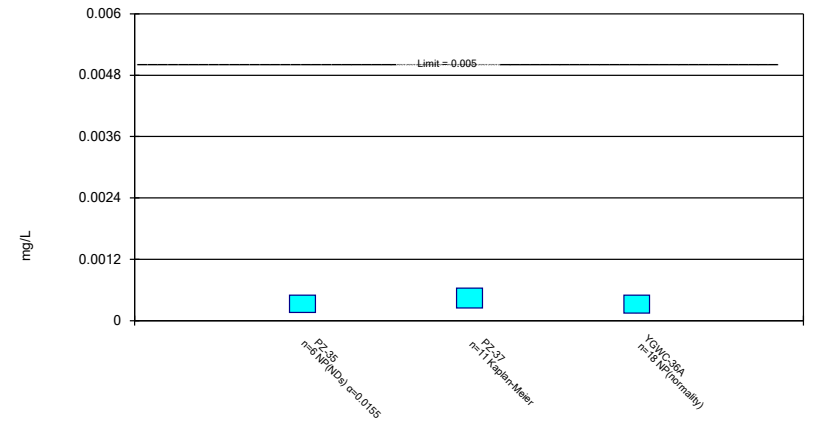
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 5/6/2021 9:19 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

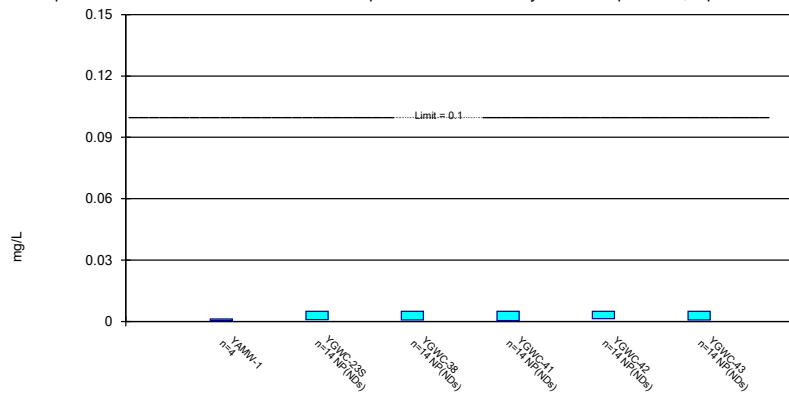
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 5/6/2021 9:19 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

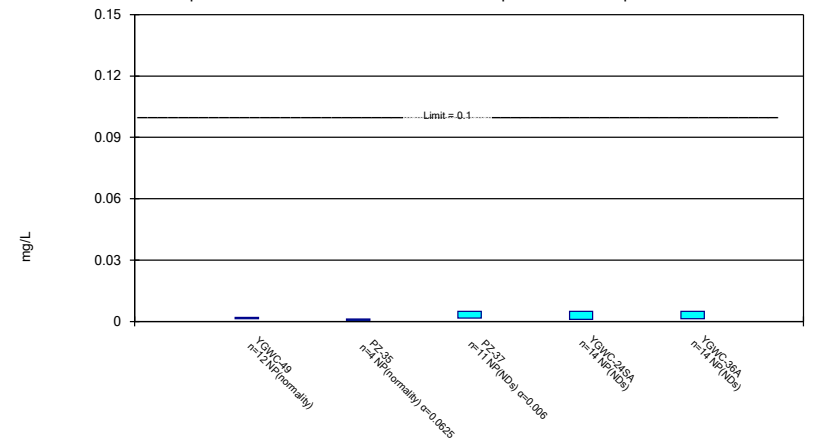
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 5/6/2021 9:19 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

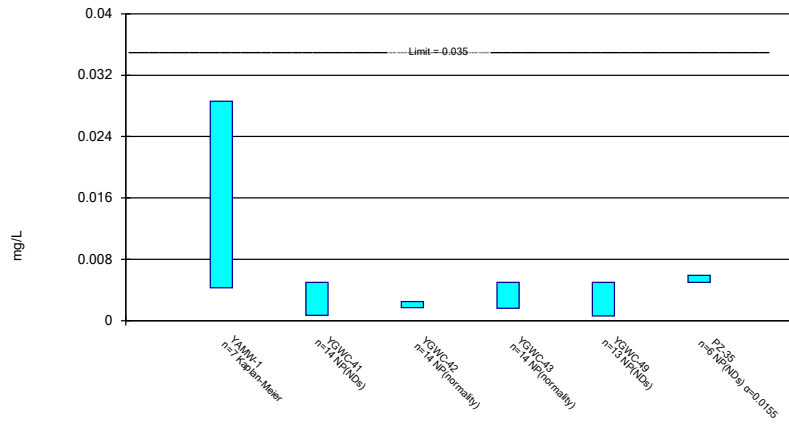
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Chromium Analysis Run 5/6/2021 9:20 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

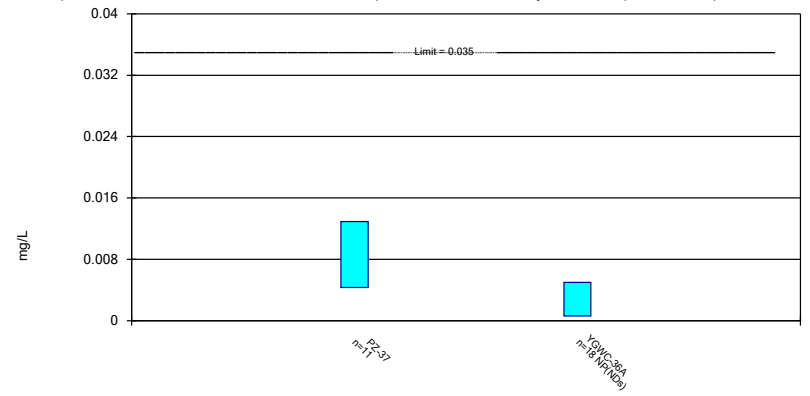
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/6/2021 9:20 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

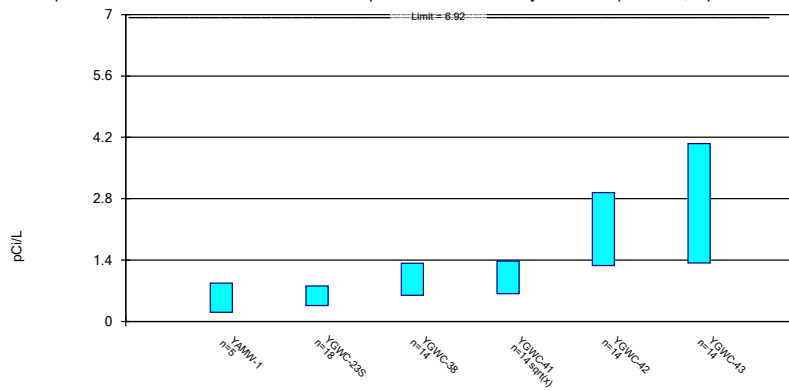
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/6/2021 9:20 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric Confidence Interval

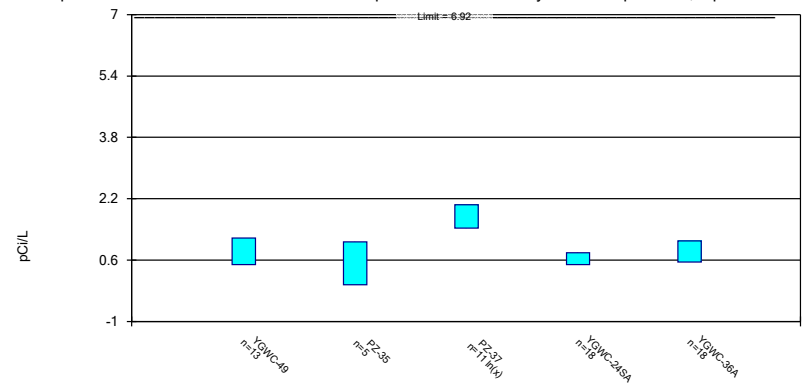
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/6/2021 9:20 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric Confidence Interval

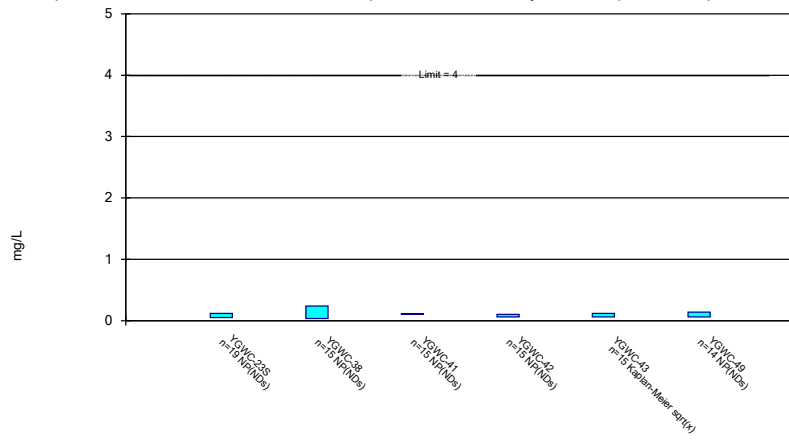
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/6/2021 9:20 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

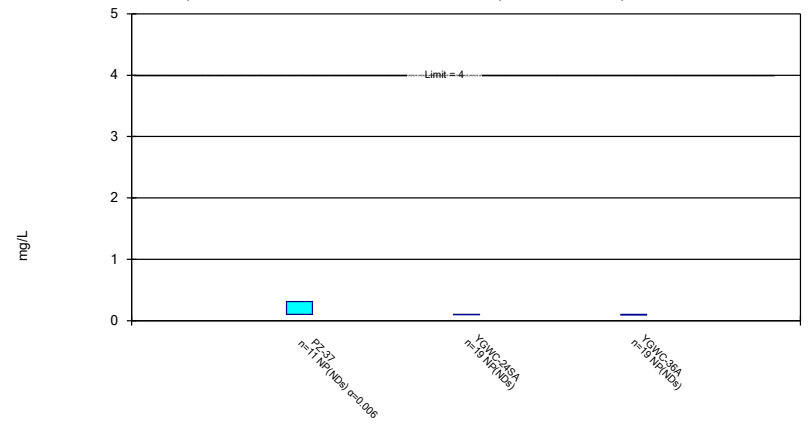
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 5/6/2021 9:20 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

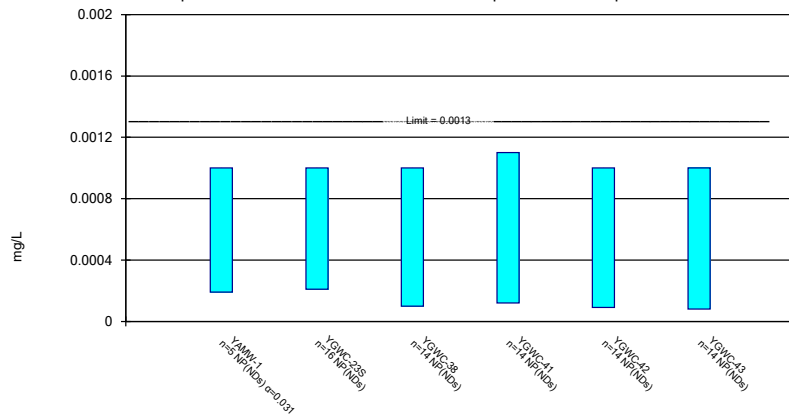
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Fluoride Analysis Run 5/6/2021 9:20 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

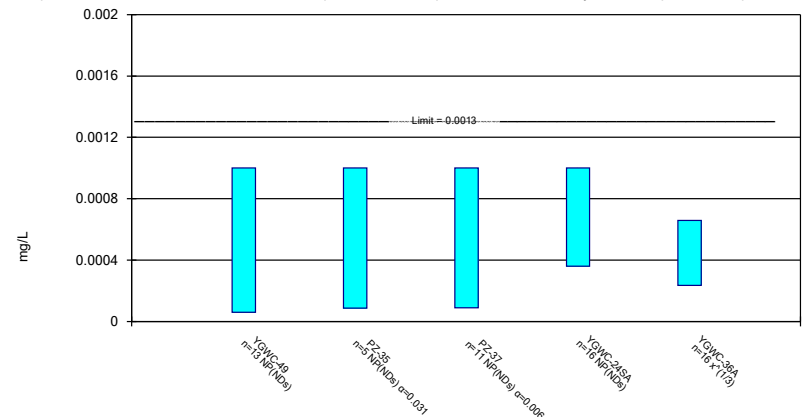
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Lead Analysis Run 5/6/2021 9:20 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

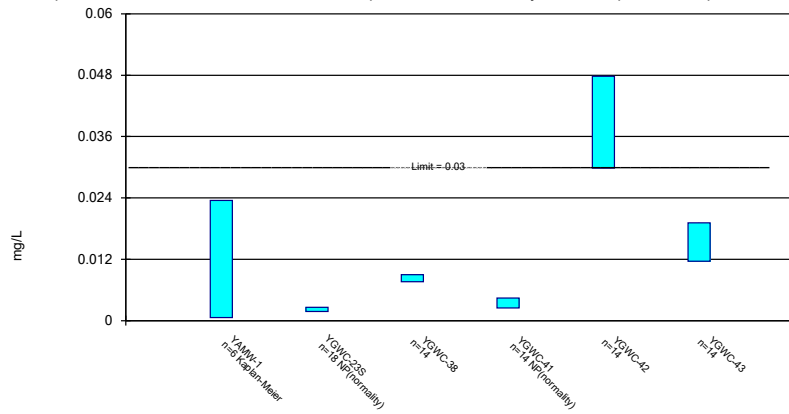
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 5/6/2021 9:20 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

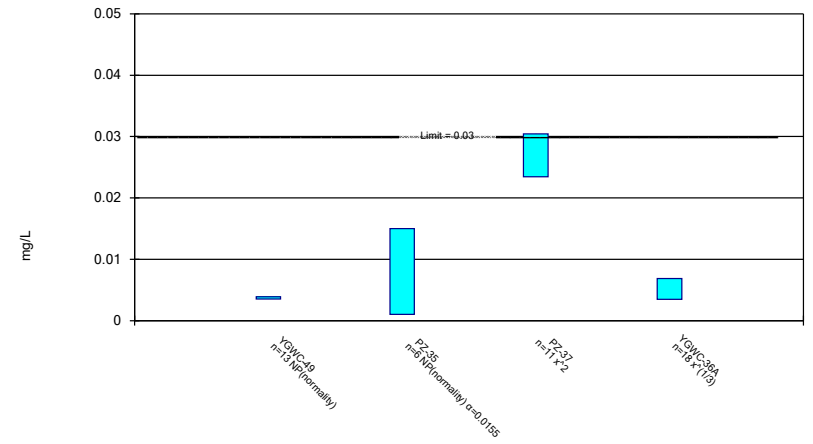
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/6/2021 9:20 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

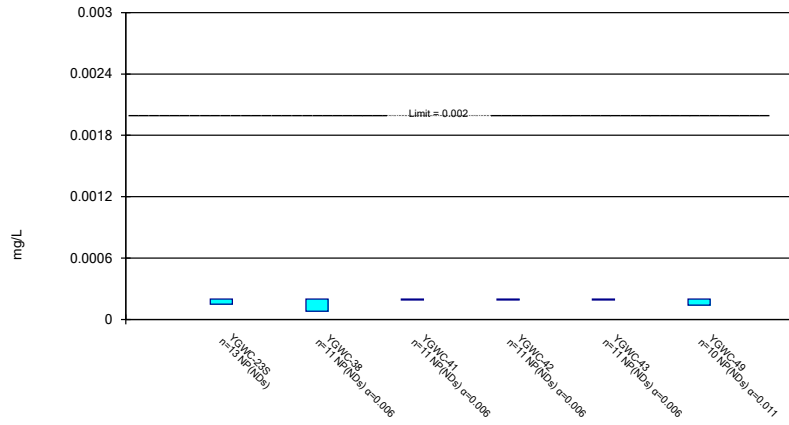
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/6/2021 9:20 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

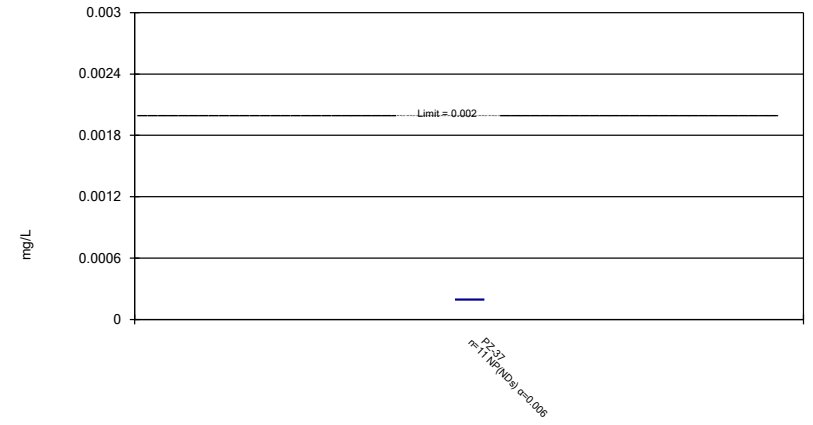
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Mercury Analysis Run 5/6/2021 9:20 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

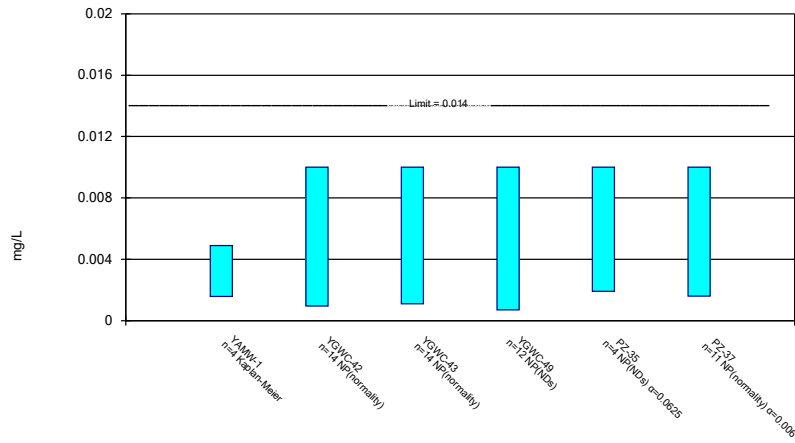
Compliance Limit is not exceeded.



Constituent: Mercury Analysis Run 5/6/2021 9:20 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

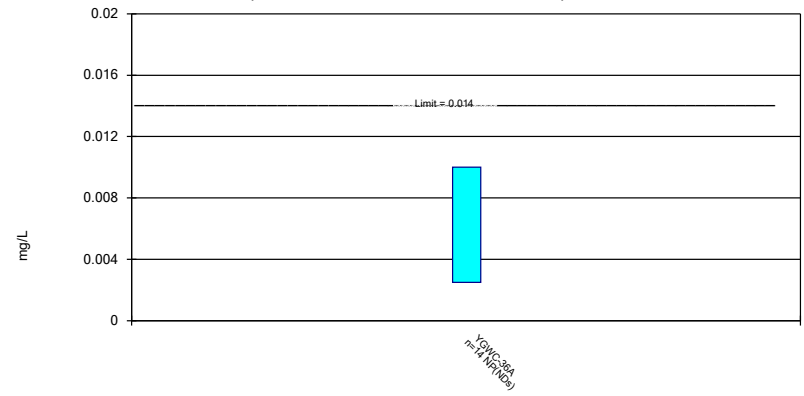
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 5/6/2021 9:20 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

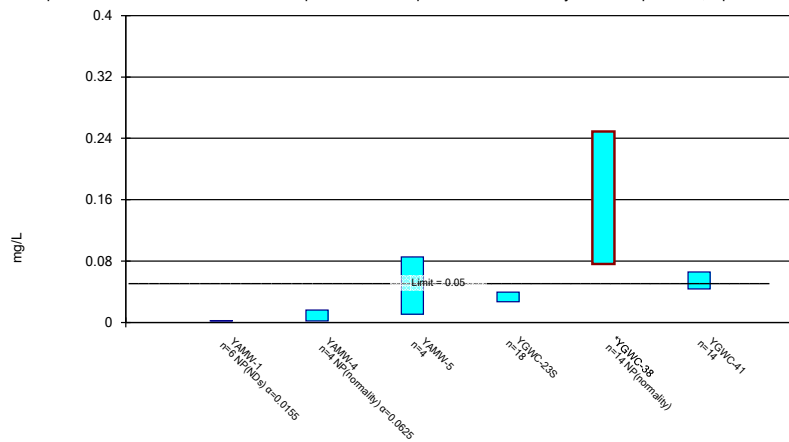
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Molybdenum Analysis Run 5/6/2021 9:20 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

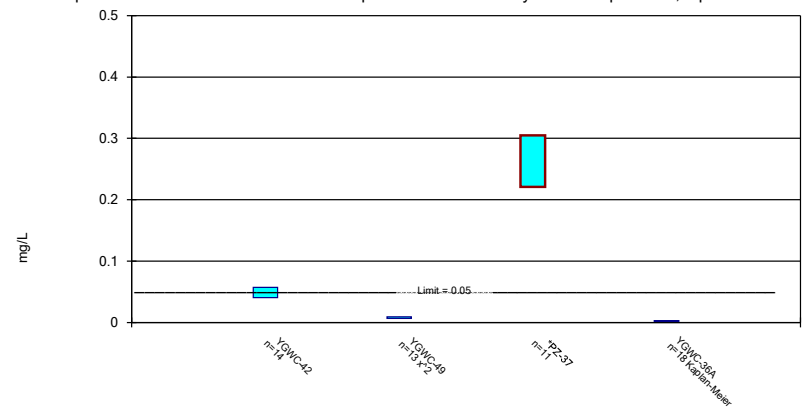
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 5/6/2021 9:20 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 5/6/2021 9:20 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Arcadis U.S., Inc.

2839 Paces Ferry Road

Suite 900

Atlanta, Georgia 30339

Tel 770 431 8666

Fax 770 435 2666

www.arcadis.com

A decorative graphic consisting of three thin orange lines. One is a horizontal line extending across the width of the page. Two others are diagonal lines starting from the bottom left and extending towards the top right, crossing the horizontal line.